

# JossMin

Valves and Automations Pvt. Ltd.



Manufacturer of Valves and Valve Automation Systems.



Ball Valves  
Butterfly Valves  
Flush Bottom Valves  
Pneumatic Rotary Actuators

# COMPANY PROFILE

## WHO WE ARE

JossMin is an emerging indigenous brand with the in-house capacity for manufacturing a wide range of Valves and Valve Automation Systems.

We are a group of passionate individuals with decades of experience in multiple sectors of the Valve Industry devoted to creating technologically viable products and systems that display robustness and quality.

Our Founder and Managing Director, **Mr. Jossie H. Menezes**, has over 35 years of experience in Valve Design, Development and Production. He co-founded M/s Micro Pneumatics Private Limited in 1986 and led the company as its Technical Director till its amalgamation with the multinational conglomerate - Kitz Corporation. Through JossMin, we intend to continue this journey under a new brand that displays robust workmanship and only the utmost quality; by providing updated designs and technologically viable products & systems.

## WHERE WE ARE

Located in Vasai – a distant suburb on the outskirts of Western Mumbai - we are functioning from our Independently owned 21,000 sq. ft. workshop having the required infrastructure & latest machinery handled by experienced, well-qualified engineers & skilled professionals.

Our Infrastructure houses independently-run departments such as Design, Planning, Procurement, Production, Quality Assurance & Quality Control, Stores, Service, and Dispatch, along with requisites. Our stringent quality checks at every stage of the process help manufacture high-quality valves with extended lives.

## WHAT WE OFFER

In addition to standardized products, we also offer tailor-made electro-pneumatic valves & valve automation systems aptly catering to a wide range of critical and non-critical services in sectors such as Pharmaceuticals, Food & Beverages, Chemicals & Pesticides, Paints, Polymers, and others.

We are constantly working on improving existing products while innovating new ones. We aim to maintain our track record of the best customer satisfaction, helping clients achieve unprecedented and sustained business results through products and services at competent prices without compromising quality.

Our Product Portfolio reflects a precise, comprehensive range of Ball Valves, Butterfly Valves, and Flush Bottom Valves in a wide range of Sizes, Pressure ratings and Materials. All Valves are available in multiple end connections such as Flanged end, Triclover end, Screwed end, Socket weld end, Butt weld end, Orbit weld end and many more.

Coupled with our automation systems, we guarantee smooth control and delivery, every time.

## CERTIFICATIONS



ISO 9001:2015



CSIR



UDYAM/MSME

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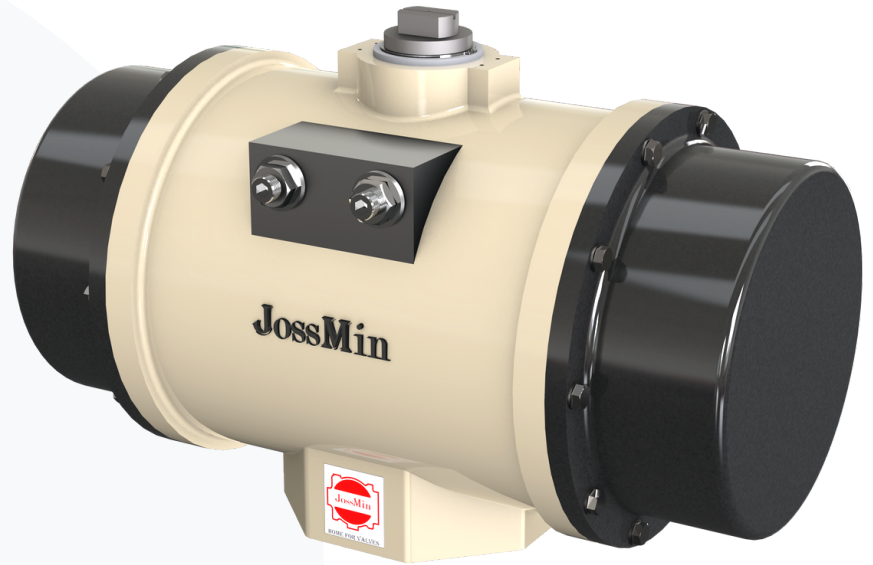
## PNEUMATIC ROTARY ACTUATORS

### SPECIFICATIONS:

- Design: As per BS EN 15714
- Actuator Body
  - Aluminium extruded with Hard Anodizing or Silver Anodizing
  - Aluminium casting with Epoxy paint
  - Stainless Steel
- Aluminium Die-cast Racks with EN8 (ENP Coated) Pinion (Alternately offered in Stainless Steel)
- Mounting Interfaces:
  - ISO 5211 for Valve & Actuator
  - NAMUR for Solenoid Valves
  - VDI / VDE 3845 for Position Feedback Modules and Auxiliary Accessories
- Operating pressure range: 2.5 Bar to 8 Bar. (Designed for 10 Bar)
- Temperature Range: -10°C to 80°C
- **Single Acting:**
  - (0-90) / (-90 - 0 - +90) Rotation
- **Spring Return:**
  - Series of Spring sets for variable Air pressure at 3Kg / 4Kg / 5.5 Kg
- **Double Acting:**
  - (0-90) / (0-180) / (0-120) Rotation
- **Wide range of O/P Torque:**
  - 4 Nm to 2287 Nm at 4 Bar (Single Acting Actuators)
  - 12.7 Nm to 6028 Nm at 4 Bar (Double Acting Actuators)

### FEATURES:

- Blowout proof Pinion design
- Square / Bi-square Pinion
- External Stroke adjustment in  $\pm 5^\circ$  for Open / Close positions
- Unique Guide ring design ensures no Metal to Metal contact
- Minimum Pressure operation
- Low Response Time
- Optional Viton O rings are offered for high atmospheric temperature.



Our Pneumatic Actuators are the Quarter Turn Rotary type housed inside either a Hard Anodized Aluminium Extruded, Aluminium Cast or Stainless Steel Investment Cast Body. The design features a Dual Rack and Pinion with a robust and compact build developed to operate at the desired air pressure with minimal frictional loss, ensuring Optimum Output Torque and quick response.





# BALL VALVES

## TWO WAY BALL VALVES WITH AUTOMATIONS



Designed according to the API 6D / ASME standards, the design offers a Blow-out proof multi-sealed stem, with Belleville washers set over the Gland and fastened with Gland nuts. The Valve's design offers Zero Leakage and prevents Atmospheric seepage. Additionally, the gasket setup ensures positive body joint sealing. All Critical components, including Metal Trims and Seats, are finished to reflect durability, ensure Tight Shut-off, and assure an extended life.

We also offer the Valves in the Anti-static and the Fire safe variation.

### SPECIFICATIONS:

- Design: As per API Spec 6D / BS EN ISO 17292 / ASME B16.34
- Face to Face: As per ASME B16.10 / API Spec 6D
- Sizes: ½" to 16"
- Port Type: Regular Bore / Full Bore
- Construction: One piece/ Two-piece / Three-piece
- Design variations: Fire safe / Non Fire safe, Seated / Cavity Filled, Floating / Trunion
- Bi-directional

### MOCs

#### Body MOC:

- ASTM A 216 Gr. WCB
- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Ball / Stem MOC:

- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Seating MOC:

- PTFE
- CFT
- GLFT
- High Temp - As per pressure, temperature and fluid compatibility.
- Soft Seated (With/Without Cavity filler)
- Metal Seated (With/Without Cavity filler)

### INDUSTRY / APPLICATIONS:

- Utility
- Process
- Pharma Clean Room
- Food & Beverages
- Paints
- Speciality Chemicals

### OPERATIONS:

- On-Off
- Modulating
- Coarse-Fine

### END CONNECTIONS & RATINGS:

- Flanged: ASME 150# to 2500#
- Threaded: ASME 150# to 2500#, CWP 1000 to 3000
- Tri-clover End: PN 10, PN 16
- Butt-weld End: ASME 150# to 2500#, CWP 1000 to 3000
- Socket-weld End: ASME 150# to 2500#, CWP 1000 to 3000
- Orbit-weld End: PN 10
- SMS DIN: PN 10
- Wafer End: ASME 150#
- Tongue: ASME 150# to 2500#
- Groove: ASME 150# to 2500#
- Tongue & Groove: ASME 150# to 2500#
- Integral Header - PN10

# BALL VALVES

## JACKETED BALL VALVES WITH AUTOMATIONS

### SPECIFICATIONS:

- Design: As per Manufacturing Standards
- Face to Face: As per Manufacturing Standards
- Port Type: Full Bore
- Sizes:
  - Bore size: 1" to 6"
  - Flange size: 1½" to 10"
- Construction: Single Piece
- Jacket Connection: ½", ¾" or 1" Flanged / BSP / NPTF Threaded
- Jacket Ports: In, Out, Drain
- Design Variations: Fire safe / Non Fire safe, Seated / Cavity Filled

### MOCs:

#### Body MOC:

- ASTM A 216 Gr. WCB
- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Ball / Stem MOC:

- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Seating MOC:

- PTFE
- CFT
- GLFT
- High Temp - As per pressure, temperature and fluid compatibility.
- Soft Seated (With/Without Cavity filler)
- Metal Seated (With/Without Cavity filler)

#### Jacket MOC:

- AISI SS304
- AISI SS316
- Special Alloys as per application or customer requirement

### OPERATIONS:

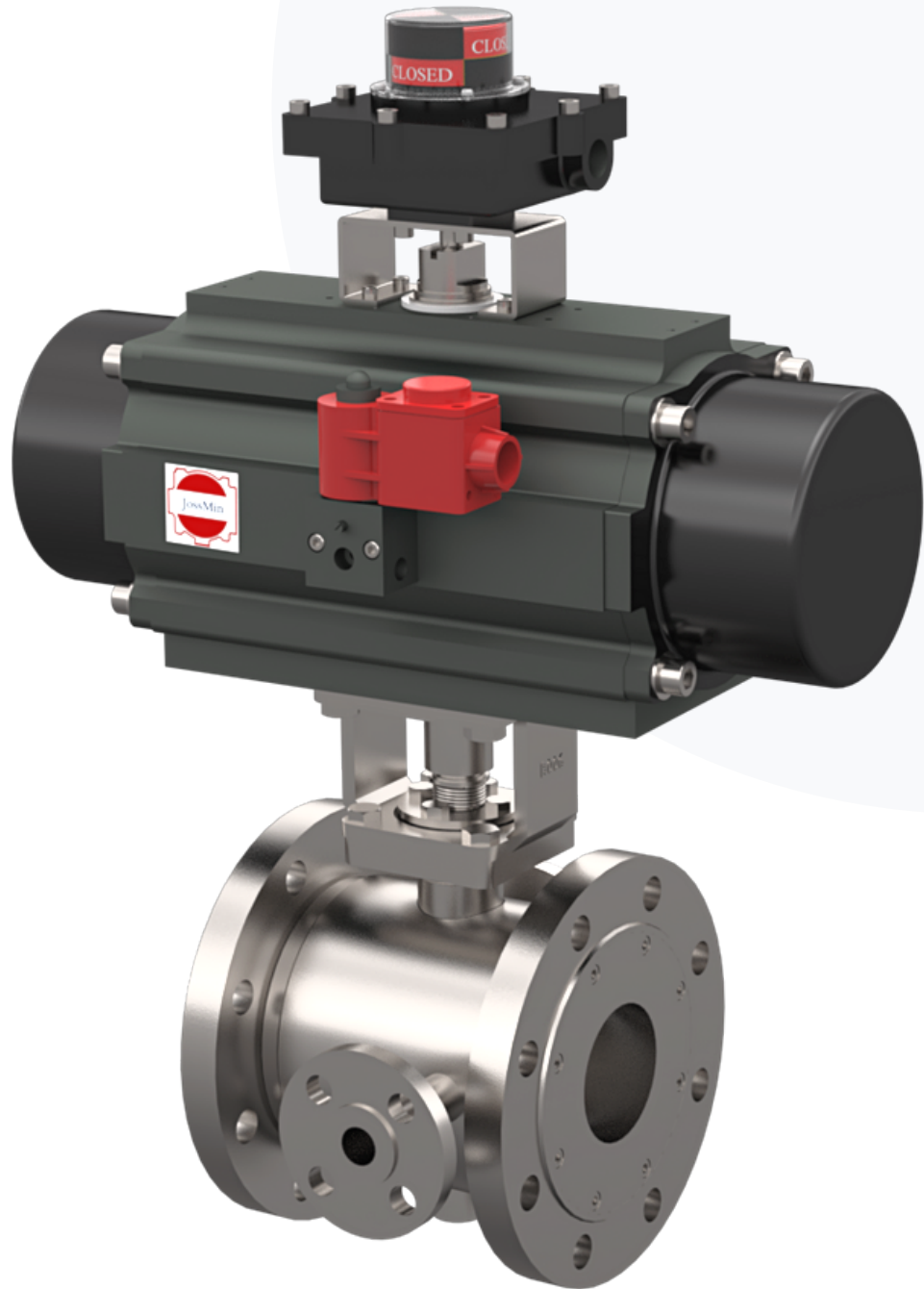
- On-Off
- Modulating
- Coarse-Fine

### END CONNECTIONS & RATINGS:

- Flanged – ASME 150#, 300#

### INDUSTRY / APPLICATIONS:

- Pigments
- Paints
- High temperature Process media
- Food
- Speciality Chemicals



In cases where the media could be highly viscous or solidify under certain temperature conditions, Jacketed Valves are a go-to solution. These valves are a good fit for applications that require constant temperature regulation to ensure that the medium passing through the valve maintains its flowability.

# BALL VALVES

## THREE WAY DIVERTER BALL VALVES WITH AUTOMATIONS



Our Three-way Valves are used for media diverting applications and come in various orientations:

- L-port Orientation,
- T-port Orientation,
- T-port (Piggable),
- 120°

The Valves work by aligning the channels in the ball with the inlets and outlets. The Ports can vary in configuration as one inlet – two outlets or vice versa for diverting media. All ports are on the horizontal plane. An Optional cavity-filled design is also available to avoid entrapment of media. The Valve is usually recommended in the Chemical, Utility, Food & Beverage and Paint Industries.

### SPECIFICATIONS:

- Design: As per Manufacturing Standards
- Face to Face: As per Manufacturing Standards
- Sizes: ½" to 6"
- Port Type: Full Bore / Reduced Bore
- Construction: Three Piece (L-port) or 5 Piece (T-port), 120°
- Design: Seated / Cavity Filled

### MOCs

#### Body MOC:

- ASTM A 216 Gr. WCB
- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Ball / Stem MOC:

- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Seating MOC:

- PTFE
- GLFT
- Other materials as per pressure, temperature & fluid compatibility

### OPERATIONS:

- Diverting
- Control Diverting (Bypass) - Tport
- 120°

### END CONNECTIONS & RATINGS:

- Flanged – ASME 150#, 300#
- Other end connections available on request

### INDUSTRY / APPLICATIONS

- Utility – Pharmaceutical / Chemical
- Process – Pharmaceutical / Chemical
- Piggging

## TRI PORT BALL VALVES WITH AUTOMATIONS

### SPECIFICATIONS:

- Design: As per Manufacturing Standards
- Face to Face: As per Manufacturing Standards
- Sizes: 1" to 6"
- Construction: 3 Piece
- Design: Seated / Cavity Filled, Partial Jacketing

### MOCs:

#### Body MOC:

- ASTM A 216 Gr. WCB
- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Ball / Stem MOC:

- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Seating MOC:

- PTFE
- CFT
- GLFT
- Other materials as per pressure, temperature & fluid compatibility

### OPERATIONS:

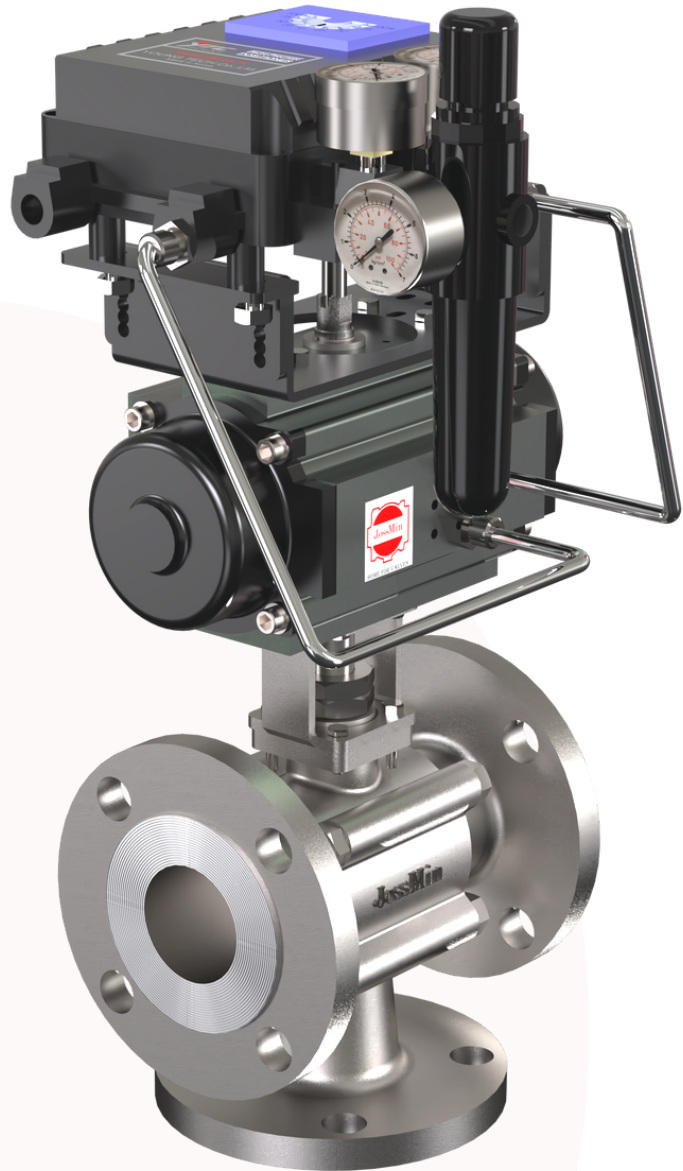
- Diverting
- Control Diverting (Bypass)
- Control Mixing
- Coarse-Fine (Bypass)

### END CONNECTIONS & RATINGS:

- Flanged – ASME 150#
- Other End connections available on request

### INDUSTRY / APPLICATIONS:

- Pharma - Process
- Food and beverages
- Filling Station
- High temperature media



Triport Valves showcase a unique customized Ball Valve design with orientations over 3 Quadrants, i.e. Left, Right & Bottom. Depending on the intent of the operation, the valve orientations can modify in the following manners:

- Diverting-2 Ports
- Control-Diverting
- Control-Mixing-3 Ports

The Ports could function as a Single Inlet with Twin Outlets or vice-versa. The Control diversion feature enables flow with minimal pressure drop.



# BALL VALVES

## LINED BALL VALVES WITH AUTOMATIONS



Our Lined Ball Valves are designed and manufactured as per the ASME standards, with a wide range of Sizes, End-connections, Pressure ratings & MOCs to suit various extreme operating conditions. The split body design along with a set of Belleville washers set over Gland fastened with Gland nuts assure Zero Leakage and prevent Atmospheric seepage. We offer PFA 350/450 HP Grade lining that varies between 3 to 4mm in thickness. The linings are also offered in an optional Antistatic grade.

### SPECIFICATIONS:

- Design: As per BS EN ISO 17292 / ASME B16.34
- Face to Face: As per ASME B16.10
- Sizes: ½" to 8"
- Port Type: Full Bore
- Construction: Two piece Split Body
- Design: Seated (Non-Antistatic PFA / Antistatic PFA)
- Bi-directional

### MOCs:

#### Body MOC:

- DI PFA
- ASTM A 216 Gr. WCB with PFA/FEP lining
- ASTM A 351 Gr. CF8 with PFA/FEP lining
- ASTM A 351 Gr. CF3 with PFA/FEP lining
- ASTM A 351 Gr. CF8M with PFA/FEP lining
- ASTM A 351 Gr. CF3M with PFA/FEP lining
- Special Alloys as per application or customer requirement

#### Ball / Stem MOC:

- ASTM A 351 Gr. CF8 with PFA/FEP lining
- ASTM A 351 Gr. CF3 with PFA/FEP lining
- ASTM A 351 Gr. CF8M with PFA/FEP lining
- ASTM A 351 Gr. CF3M with PFA/FEP lining
- Special Alloys as per application or customer requirement

#### Seating MOC:

- PTFE
- CFT

### OPERATIONS:

- On-Off
- Modulating
- Coarse-Fine

### END CONNECTIONS & RATINGS:

- Flanged – ASME 150#

### INDUSTRY / APPLICATIONS:

- Pharma Process (Corrosive/Alkaline)
- Paints
- Speciality Chemicals

## CENTRIC SPLIT BODY BUTTERFLY VALVES WITH AUTOMATIONS

### SPECIFICATIONS:

- Design: As per MS-SP-67 / API 609 Standard
- Bi-directional
- Sizes: 2" to 24"
- Construction: Split Body with Stem Integral to Disc (Optional in Split Stem Design)
- Design: Antistatic Stem, Full OD Sleeve with Silicon, Nitrile, or Viton as Energizer for sealing, Lined Design Variation

### MOCs

#### Body MOC:

- ASTM A 216 Gr. WCB
- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Disc / Stem MOC:

- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement
- Lining in PFA/FEP

#### Seating MOC:

- PTFE
- PFA / FEP Sleeve
- EPDM / NITRILE / VITON combination

### END CONNECTIONS & RATINGS:

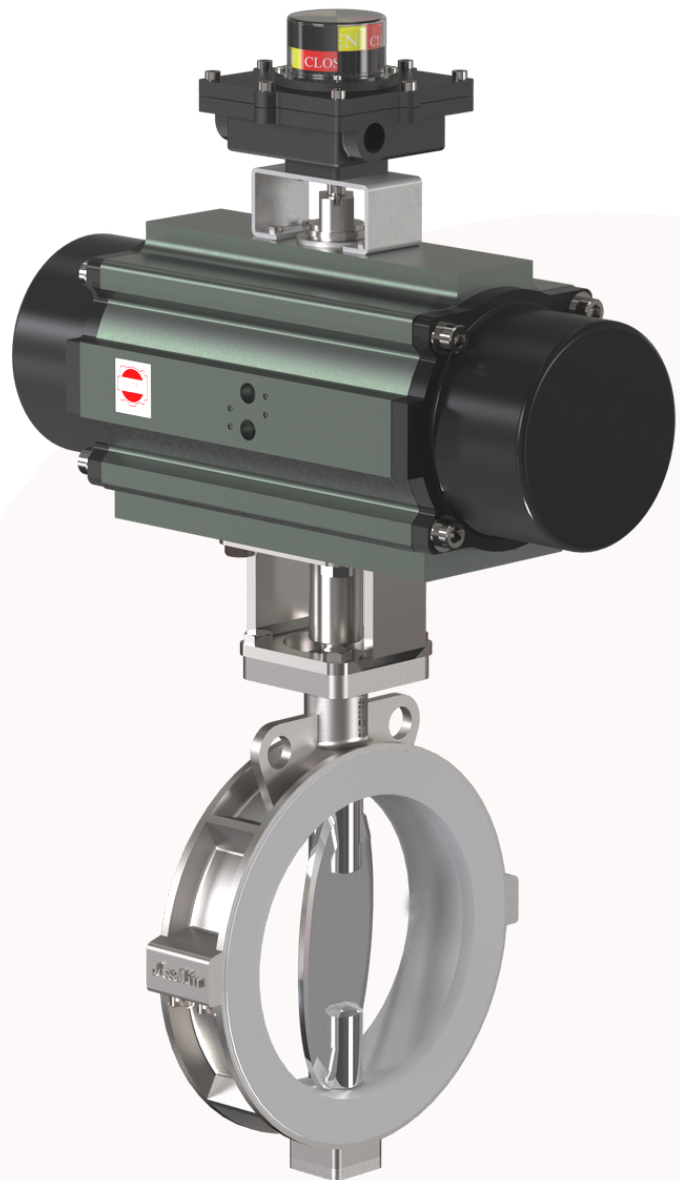
- Universal Wafer type / PN 6, PN 10
- Tri-Clover / PN 6, PN 10

### OPERATIONS

- On-Off
- Modulating
- Coarse-Fine

### INDUSTRY / APPLICATIONS

- Utility
- Process
- Powder
- Corrosive or Alkaline media

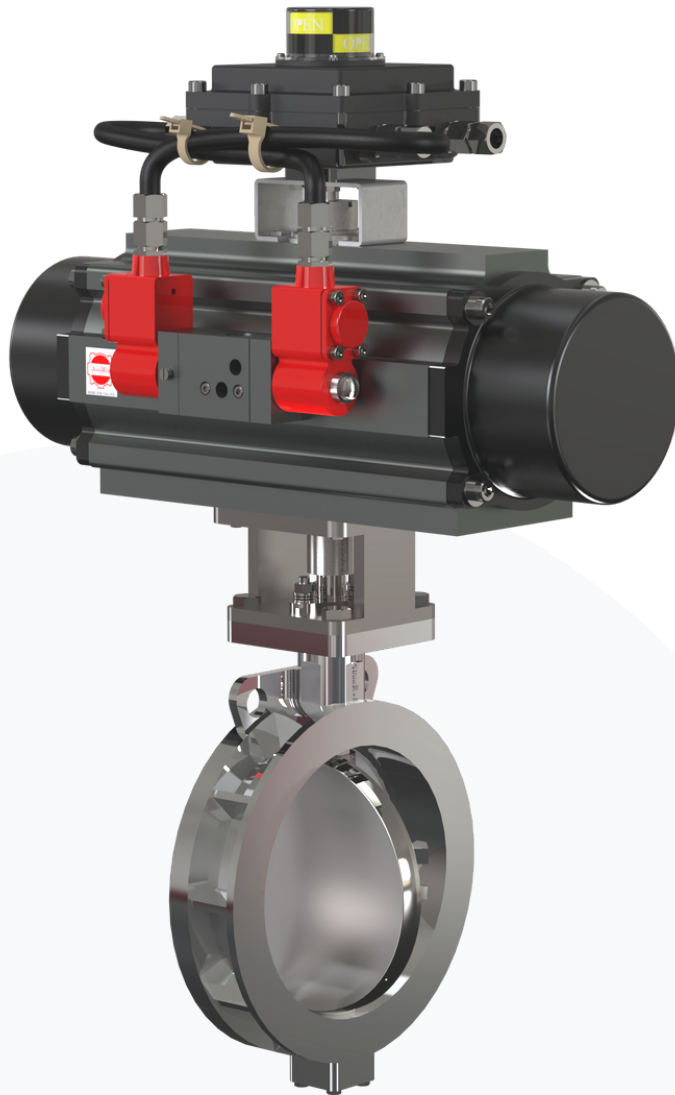


Our Centric (aka. Co-centric) Universal Wafer Butterfly Valves are designed with a vast range of Sizes, Pressure ratings & MOCs. The design offers Silicon Seat Energizers to cushion against the Disc Load over the PTFE Sleeve, ensuring low friction and enhancing the seat's life. The Blow-out-proof multi-sealed stem prevents atmospheric leakage of the flowing media.

The Valves are available with other end connections like the Tri-clover End, usually used in sanitary applications, and the Slim-body direct-mounting design, for Powder applications.

# BUTTERFLY VALVES

## DOUBLE ECCENTRIC BUTTERFLY VALVES WITH AUTOMATIONS



Designed according to the API 609 / MS-SP-68 Standards, our low torque Double-Eccentric Universal Wafer Butterfly Valves are available in variable ranges over Sizes, Pressure ratings & MOCs. The design offers a positive tight shut-off sealing between the Disc & Valve Seat - even under pressurized conditions - due to its unique seating fixed using a Metal Retainer. Guided by bearings at the Top and the Bottom, the Shaft has a good load intake capacity even in high-pressure applications without deflections. To ensure a tight seal and prevent Atmospheric leakage of the flowing media, the Blow-out proof stem has Multi-sealed Pressure assisted V-seals and a set of Belleville washers over Gland fastened with Gland nuts. The Antistatic feature at the Valve Stem helps maintain continuity over the flowing media.

### SPECIFICATIONS:

- Designed as per API 609 / MS-SP-68 Standards
- Bi-directional
- Sizes: 2" to 20"
- Design: Double Eccentric with Antistatic Stem

### MOCs

#### Body MOC:

- ASTM A 216 Gr. WCB
- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement
- Lining in PFA/FEP

#### Disc / Stem MOC:

- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement
- Lining in PFA/FEP

#### Seating MOC:

- PTFE
- CFT
- GLFT
- Other materials as per pressure, temperature & fluid compatibility

### END CONNECTIONS & RATINGS:

- Universal Wafer type / ASME 150#, ASME 300#, ASME 600#
- Flanged End / ASME 150#, ASME 300#, ASME 600#

### OPERATIONS:

- On-Off
- Modulating
- Coarse-Fine

### INDUSTRY / APPLICATIONS:

- Utility, Process
- Vacuum applications
- Solvents and Chemicals
- High temperature media

# BUTTERFLY VALVES

## LINED BUTTERFLY VALVES WITH AUTOMATIONS

### SPECIFICATIONS:

- Design: As per MS-SP-67 / API 609 Standard
- Bi-directional
- Sizes: 2" to 24"
- Design: Antistatic Stem, Full OD Sleeve with Silicon, Nitrile, or Viton as Energizer for sealing

### MOCs

#### Body MOC:

- ASTM A 216 Gr. WCB
- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Disc / Stem MOC:

- ASTM A 351 Gr. CF8 with PFA/FEP Lining
- ASTM A 351 Gr. CF3 with PFA/FEP Lining
- ASTM A 351 Gr. CF8M with PFA/FEP Lining
- ASTM A 351 Gr. CF3M with PFA/FEP Lining
- Special Alloys as per application or customer requirement
- Lining in PFA/FEP

#### Seating MOC:

- PTFE
- PFA / FEP Sleeve

### END CONNECTIONS & RATINGS:

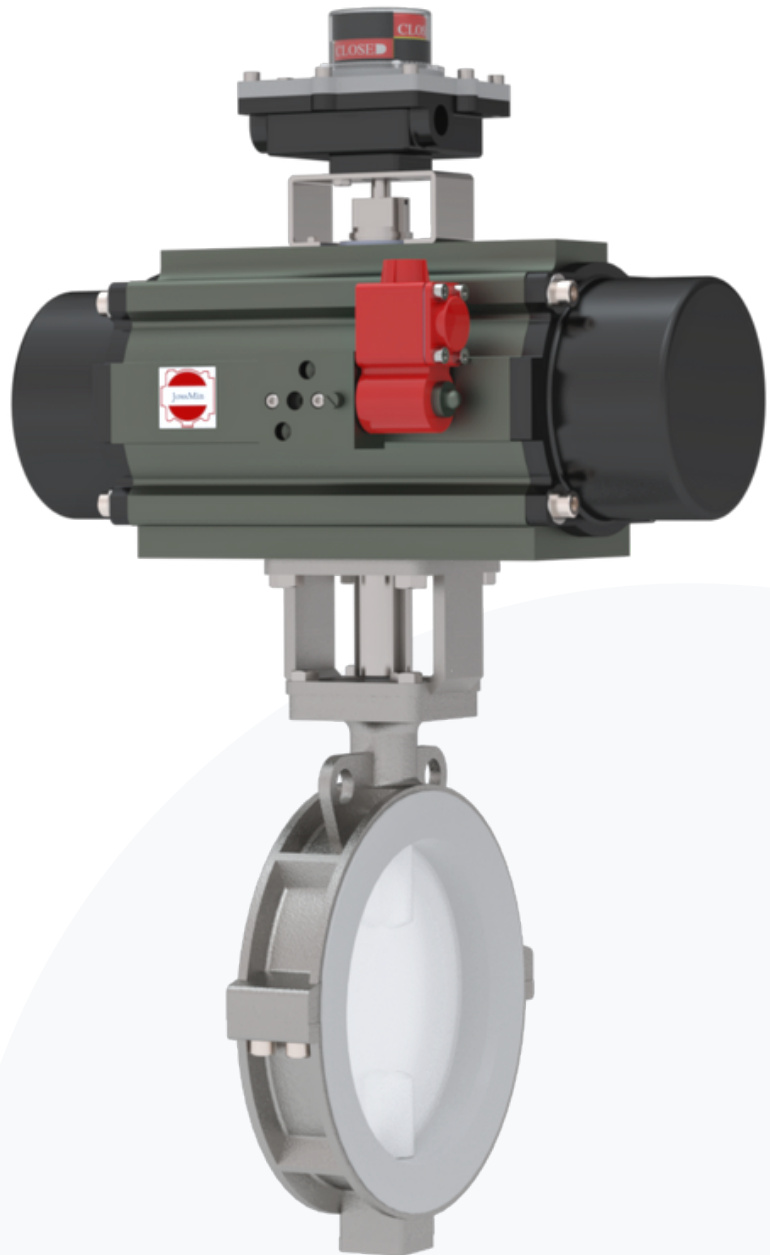
- Universal Wafer type / PN 6, PN 10

### OPERATIONS

- On-Off
- Modulating
- Coarse-Fine

### INDUSTRY / APPLICATIONS

- Utility
- Process
- Powder
- Corrosive or Alkaline media

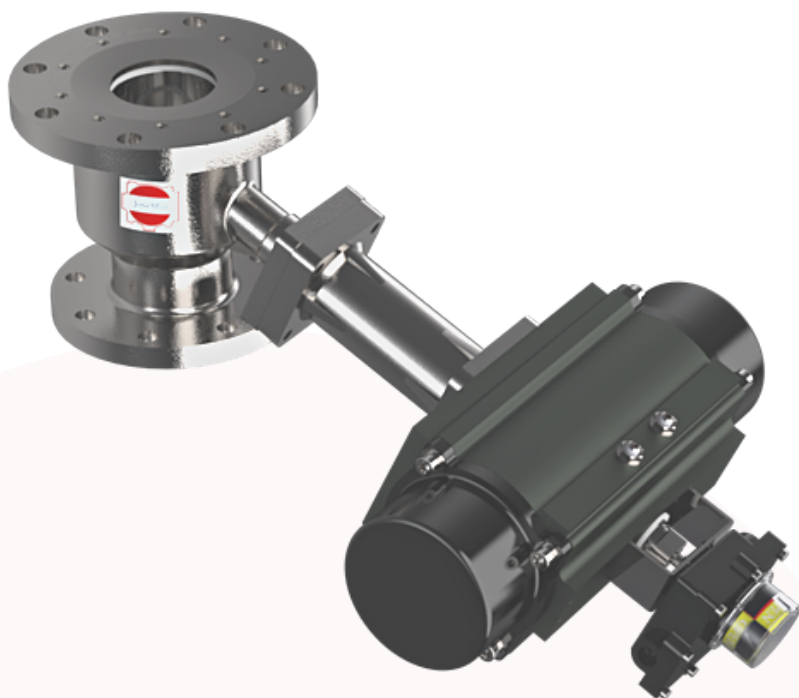


The design comes with a unique OD sleeve that covers the entire Valve Body. Offered with a Lined Disc that is suitable for low pressure and highly corrosive applications. PFA lined variations are in the PFA 350/450 HP Grade and are available also in an optional Antistatic Grade. The thickness of the lining varies between 3 to 4mm.



# FLUSH BOTTOM VALVES

## FLUSH TANK BOTTOM BALL VALVES WITH AUTOMATIONS



Flush Bottom Valves, also known as "Reactor Bottom Valves" or "Flush Tank Bottom Valves", are critical for carrying out Tank Flushing activities applicable in all Process Industries.

The Valves are available in multiple sizes and end connections to ensure 100% flushing and minimal to no dead leg. The Valve's sealing properties are optimized to avoid leakage and remove any possibility of contamination. The design offers customization provisions while ensuring compliance with the process requirements. The Valve is usually provided with an inclined bonnet (with an extension, if required) to avoid hitting the reactor. However, a straight bonnet is also available on request.

Flush bottom valves in jacketed and purging variations are also available for special applications.

### SPECIFICATIONS:

- Customized Design
- Sizes (Flange size x Bore size): 2" x 1½" to 14" x 12"
- Construction: One Piece/Two Piece/ Three Piece
- Design: Seated / Cavity Filled, Segmented Ball, Full Jacketed/Purging
- Additional Features:
  - Special RTD Sensing provision design available
  - Unique Retainer Design at Vessel End Valve Flange or Upstream side to ensure ease in maintenance

### MOCs

#### Body MOC:

- ASTM A 216 Gr. WCB
- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Ball / Stem MOC:

- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

(Hard-chrome options available as per application requirement)

#### Seating MoC:

- PTFE
- CFT
- GLFT
- Other materials as per pressure, temperature & fluid compatibility

#### Cavity Filler MOC:

- PTFE
- CFT
- GLFT
- Metal

### OPERATIONS:

- On-Off
- Modulating
- Coarse-Fine

### END CONNECTIONS & RATINGS:

- Flanged + Flanged - ASME 150#, 300#
- Tongue + Tongue - ASME 150#, 300#
- Groove + Groove - ASME 150#, 300#
- Tongue + Groove - ASME 150#, 300#
- Flanged + TC - ASME 150#, PN10
- Weldable + Flanged - ASME 150#, 300#
- Weldable + TC - ASME 150#, PN10

### OPERATIONS:

- On-Off
- Modulating
- Coarse-Fine

### INDUSTRY / APPLICATIONS:

- Process – Pharma, Specialty Chemicals
- Powder Discharging under RVD
- Paints, Pigments, Adhesives & Varnishes
- High-temperature applications
- Hydrogenation

### MOCs

#### Body MOC:

- ASTM A 216 Gr. WCB
- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

#### Ball / Stem MOC:

- ASTM A 351 Gr. CF8
- ASTM A 351 Gr. CF3
- ASTM A 351 Gr. CF8M
- ASTM A 351 Gr. CF3M
- Special Alloys as per application or customer requirement

(Hard-chrome options available as per application requirement)

#### Seating MoC:

- PTFE
- CFT
- GLFT
- Other materials as per pressure, temperature & fluid compatibility

### OPERATIONS:

- On-Off
- Modulating
- Coarse-Fine

### END CONNECTIONS & RATINGS:

- Flanged + Flanged - ASME 150#, 300#
- Tongue + Tongue - ASME 150#, 300#
- Groove + Groove - ASME 150#, 300#
- Tongue + Groove - ASME 150#, 300#
- Flanged + TC - ASME 150#, PN10

### OPERATIONS:

- On-Off
- Modulating
- Coarse-Fine

### INDUSTRY / APPLICATIONS:

- Process – Pharma, Specialty Chemicals
- Powder Discharging under RVD
- Paints, Pigments, Adhesives & Varnishes
- High-temperature applications
- Hydrogenation



The E-Seg Valve is a renewed take on the classic flush bottom valve with a design that ensures low torque. The construction ensures reduced seat wear and tear, elongating its life. This advanced Flush Bottom Valve offers minimal to no dead leg, with sealing properties optimized to avoid leakage and remove any possibility of contamination. The media falls freely through the reactor bottom, reducing the risk of material deposition in the valve body.

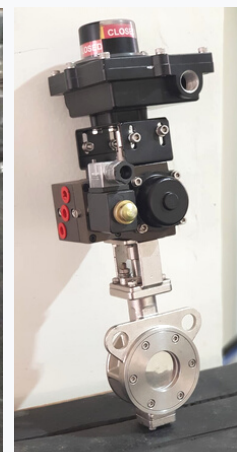
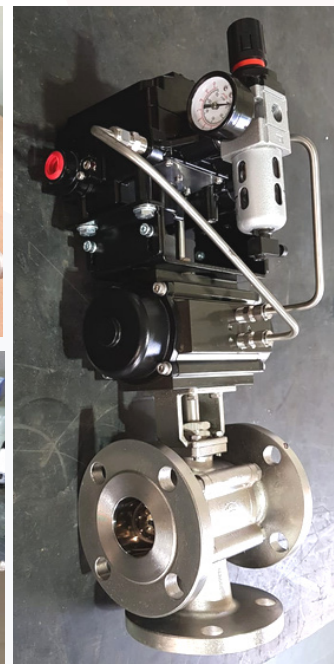
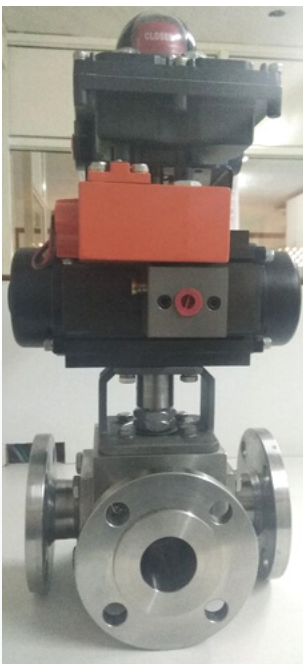
The assembly comes with Special bonnets to avoid fouling the reactor. Customization provisions, while ensuring compliance with the process requirements, available.

### SPECIFICATIONS:

- Customized Design
- Sizes (Flange size x Bore size): 2" x 1½" to 14" x 12"
- Construction: One Piece
- Design: Seated, Purging

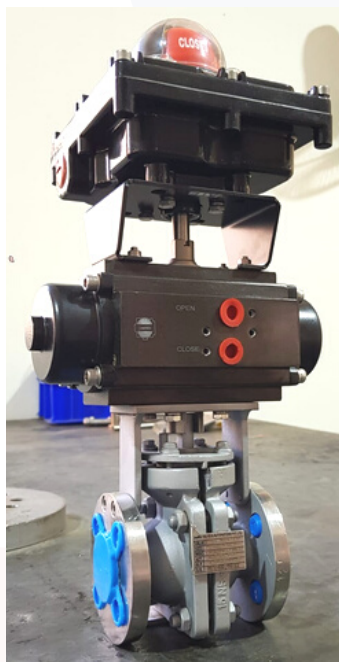
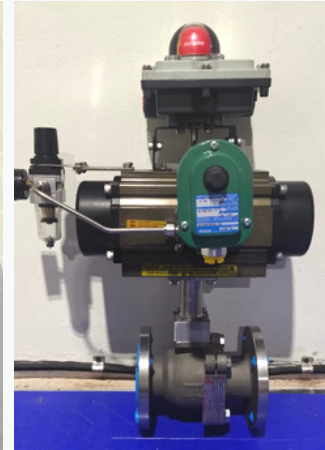
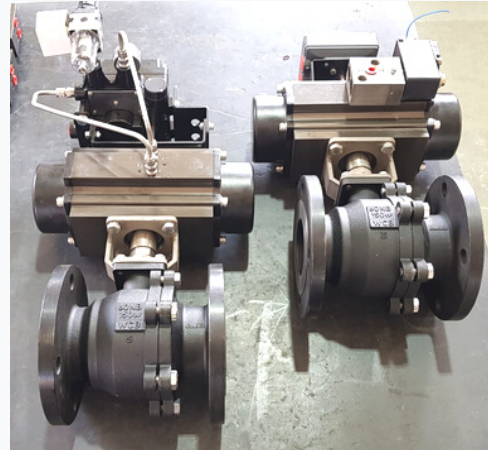


# PRODUCT GALLERY





# PRODUCT GALLERY





ISO 9001:2015  
BUREAU VERITAS  
Certification



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