# Valves For Every Industry

## Find Your Solution


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## ➢ Ball valves


- Construction Material / Feature:
  - Single Piece / 2PC / 3PC / 3 way
  - Full Bore / Reduce Bore
  - Solid Ball / Hollow Ball
  - Material: WCB, CF8, CF8M, DUPLEX
  - Seat: PTFE, CFT, THERMOLON
  - Operated: Lever, Gear, Automation
- Size: ½" (15 mm) TO 10" (250 mm)
- Rating: 150#, 300#
- Design Standard: BS 5351 / API 6D / ISO 17292
- End Connection:
  - Flanged End ASA as per ASME B16.5
  - Socket Weld as per ASME B16.11
  - Screwed End BSPT as per ISO 7.1/ ASME B 1.20.1
  - Also Available BS 10 Table E & Table F
- Face To Face: ASME B16.10
- Testing Standard: BS 6755 / API 598 / ISO 5208
- Fire Safe: BS 6755 / API 607
- Application: Isolation, On – Off Service of Water, Chemical, steam, Air, Gas
- Working Temperature: 220 Deg Celsius Max
- Working Pressure: 20 Kg/cm2 Max
- Testing Pressure

| Class | Shell (Hydrostatic) Kg/cm2 | Seat (Hydrostatic) Kg/cm2 | Seat (Pneumatic) Kg/cm2 |
|---|---|---|---|
| 150# | 30 | 22 | 7 |
| 300# | 77 | 56 | 7 |

## ➢ Ball Type Flush Bottom Valve

- Construction Material / Feature:
  - Single Piece
  - Full Bore / Reduce Bore
  - Solid Ball / Hollow Ball
  - Material: CF8, CF8M, DUPLEX
  - Seat: PTFE, CFT, THERMOLON
  - Operated: Lever
- Size: ½" (15 mm) TO 10" (250 mm)
- Rating: 150#, 300#
- Design Standard: BS 5351 / API 6D / ISO 17292

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- End Connection:
  - Flanged End ASA as per ASME B16.5
  - Also Available BS 10 Table E & Table F
- Face To Face: ASME B16.10
- Testing Standard: BS 6755 / API 598 / ISO 5208
- Application: They are commonly used in applications such as slurry tanks, polymerization reactors, and crystallization reactors.

## ➢ Extended Stem Ball Valves

- Feature: It is applicable when ball valve is underground installed, cryogenic service and high temperature service for safety purpose.

## ➢ Jacketed Ball Valves

- Feature: It is applicable when working media have consistent requirement of Heating or Cooling to prevent crystallization or seizing. Jacketed Ball Valve is specially designed to prevent solidification of working media by jacketed fluid. This is especially use when media like bitumen and liquid Sulphur.

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## ➢ Butterfly valves

- Construction Material / Feature:
  - Body Material: CI / CS
  - Disc: CS, CF8
  - Liner: EPDM, VITON
  - Operated: Lever, Gear, Automation
- Size: 1½” (40 mm) TO 10” (250 mm)
- Rating: PN10, PN16, 150#
- Design Standard: BS 5155 / API 609/ ISO 5752
- Suitable for installation between Flanged End ASA 150#, 300#, BS Table E & Table F.
- Face To Face: ASME B16.10
- Testing Standard: BS 6755 / API 598 / ISO 5208
- Application: Butterfly valves are used in diverse industries and applications such as pharmaceutical, chemical and oil, food, water supply, wastewater treatment, fire protection, gas supply, fuel handling, and sanitary fittings. Butterfly valves for water are used as control valves in pipelines to shut off water flow.
- Working Temperature: 120 Deg Celsius Max
- Working Pressure: 20 Kg/cm2 Max

## ➢ Globe valves

- Construction Material / Feature:
  - Bolted Bonnet Design
  - Flexible / Solid Wedge / Double Disc Type
  - Satellited Lower & Upper Seat
  - Material: Cast Steel
  - Stem: AISI 410 (13% Cr.)
  - Gasket: Spirally wound with Graphite filler
  - Gland Packing: Graphite Moulded Ring
  - Operated: Manual Wheel
- Size: 1” (25 mm) TO 6” (150 mm)

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- Rating: 150#, 300#
- Design Standard: BS 1873 / API 600 / API 603 / ASME B16.34
- End Connection:
  - Flanged End ASA as per ASME B16.5
  - Socket Weld as per ASME B16.11
  - Screwed End BSPT as per ISO 7.1
- Face To Face: ASME B16.10
- Testing Standard: BS 6755 / API 598
- Application: Globe Valves are used in HVAC systems to regulate, throttle, or isolate flow. They are especially useful when precise flow control is needed, such as in hot water heating systems, steam systems, or in chillers where modulating flow is important for system performance
- Working Temperature: 425 Celsius Max

## ➢ Gate Valve

- Construction Material / Feature:
  - Bolted Bonnet Design
  - Flexible / Solid Wedge / Double Disc Type
  - Satellited Gate, Seat Ring & Back Seat can also be offered on special request
  - Material: Cast Steel
  - 
  - AISI 410 (13% Cr.)
  - Gasket: Compressed Asbestos Fiber Ring
  - Gland Packing: Graphite Ring
  - Operated: Manual Wheel

- Size: 1” (25 mm) TO 6” (150 mm)
- Rating: 150#, 300#
- Design Standard: BS 1873 / API 600 / API 603 / ASME B16.34
- End Connection:
  - Flanged End ASA as per ASME B16.5
  - Socket Weld as per ASME B16.11
  - Screwed End BSPT as per ISO 7.1
- Face To Face: ASME B16.10
- Testing Standard: BS 6755 / API 598
- Application: Gate valves are used to isolate specific areas of the water supply network during maintenance, repair works, new installations, as well as to reroute water flow throughout the pipeline

## ➢ Piston Valves

- Construction Material / Feature:
  - Material: WCB
  - Piston: AISI SS304

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- Spindle: AISI 304
- Lantern Bush: AISI 304
- Split Nut: Brass
- Lower/Upper Seat: Grafoil with SS Reinforcement
- Operated: Wheel

- Size: 1” (25 mm) TO 4” (150 mm)
- Rating: 150#
- Design Standard: API 602 / ASME B16.34
- End Connection:
  - Flanged End ASA as per ASME B16.5
  - Socket Weld as per ASME B16.11
  - Screwed End BSPT as per ISO 7.1
- Face To Face: ASME B16.10
- Testing Standard: API 598 / ASME B16.34
- Application: Piston valves are used primarily for saturated and superheated steam, thermic fluids, acids, gases, vacuum, and other critical media and hot water service in power plants, refineries, pulp, and paper mills, etc. Specific applications include steam headers and manifolds, condensate manifolds, desuperheaters, steam trap isolation, etc.

## ➢ Check Valves

### ➢ Swing Type Check Valve

### ➢ Wafer Type Check Valve

### ➢ Dual Plate Check Valve

- Construction Material / Feature:
  - Material: WCB / CF8 / CF8M
  - Disc: WCB / CF8 / CF8M
  - Seat: PTFE / EPDM
  - Gasket: Graphite
  - Operated: Self
- Size: 1” (25 mm) TO 6” (150 mm)
- Rating: 150#, 300#
- Design Standard: BS 1873 / API 594 / API 600 / API 603 / ASME B16.34
- End Connection:
  - Flanged End ASA as per ASME B16.5
  - Socket Weld as per ASME B16.11
  - Screwed End BSPT as per ISO 7.1
- Face To Face: ASME B16.10
- Testing Standard: BS 6755 / API 598
- Application: one-way valve is a valve that normally allows fluid to flow only one direction. It is used to prevent backflow to protect the piping, other valves, pumps etc.

## ➢ CS 'Y' Type Strainer

- Construction Material / Feature:
  - Material: WCB
  - Screen: SS 304 (5 MM Screen)
  - Mesh: SS 304 (Mesh 40)
  - Packing: Graphite / PTFE
- Size: ½” (15 mm) TO 6” (150 mm)
- Rating: 150#, 300#
- Design Standard: BS 1868 / API 6D / ASME B16.34
- End Connection:
  - Flanged End ASA as per ASME B16.5
  - Screwed End BSPT as per ISO 7.1
- Face To Face: ASME B16.10
- Testing Standard: BS 6755 / API 598
- Application: It used to filter fluid to separate solid matter from it to protect pumps, meters, control valves, steam traps, regulators, and other process equipment.

## ➢ CS Fabricated Basket Type Strainer.

- Material: WCB / CF8 / CF8M
- Screen: SS 304 (6 MM Screen)
- Mesh: SS 304 (Mesh 40)
- Size: 1” (25 mm) TO 6” (150 mm)
- End Connection: Flanged End ASA as per ASME B16.5
- Face To Face: ASME B16.10

## ➢ Sight/View glass

- Material: WCB / CF8 / CF8M
- Size: 1” (25 mm) TO 6” (150 mm)
- End Connection: Flanged ASA 150# RF as per ASME B16.5
- Face To Face: ASME B16.10
- Application: Verifying the production stages of a process visually. Inspection of fluids for changes in colour or consistency.

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## ➢ Automation Valve (Pneumatic Actuators / Electrical Actuators)

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