



PRODUCT CATALOGUE

Industrial Valve Manufacturing

Gate • Globe • Ball • Butterfly • Check • Plug • Safety • Knife Gate • Diaphragm • Piston •
Strainers



SD Industrial Valves Pvt Ltd

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ABOUT US

Precision valve manufacturing

SD Industrial Valves Pvt Ltd manufactures premium industrial valves for severe service and backs them with complete plant shutdown, repair and overhauling support. From gate, globe, ball and butterfly valves to safety and special-purpose designs, everything we build is engineered to perform reliably under pressure — and to keep performing for years.

What sets us apart is end-to-end capability: design, machining, assembly, testing and dispatch under one roof, combined with experienced field crews who install, maintain and restore valves on site. When your plant needs a planned turnaround or an emergency response at 2 a.m., the same team that builds valves is the team that keeps yours running.

We stay current with the latest developments in valve technology and maintenance practice, continually upgrading our methods, tooling and training — so our customers always get the best outcome the industry can offer.

AT A GLANCE

14 product lines Gate, globe, ball, butterfly, check, plug, safety and more	In-house capability Design, machining, assembly, testing and dispatch
Certified quality API, ANSI/ASME and ISO 9001:2015 processes	Full traceability Material and test documentation with every valve

WHY SPECIFIERS CHOOSE US

Engineered for severe service High pressure, high temperature, corrosive and abrasive media	Standards-led API 600, API 6D, API 598 and ANSI/ASME as applicable
Custom configurations Non-standard sizes, materials, trims and actuation built to order	Reliable lead times Planned capacity and a delivery discipline tuned to project schedules

OUR PROCESS

From engineering to dispatch

Every valve passes through an integrated eight-stage quality process with full material traceability, from incoming raw material and casting through to final hydro and seat testing.

01 Design & Engineering

CAD modeling, FEA and flow analysis translate your specification into a manufacturable, standards-compliant design.

02 Casting & Forging

Quality is controlled from the casting and forging stage, with material traceability on every body, bonnet and trim.

03 CNC Machining

Precision CNC machining of bodies, bonnets, wedges, seats and stems to tight dimensional tolerances.

04 Assembly

Controlled assembly by trained technicians, with calibrated torque and seating verification at every step.

05 Hydro & Seat Testing

Shell, seat and back-seat testing to API 598 / relevant standards, with pressure and leakage records.

06 Inspection & QA

Dimensional checks, NDT and final inspection confirm conformance before any valve leaves the floor.

07 Painting & Coating

Surface preparation and protective coating to the required specification for the service environment.

08 Packaging & Dispatch

Secure packing, documentation and on-time dispatch — delivering the project, every time.

CAPABILITIES

Built to manufacture, built to scale

Modern Infrastructure A well-equipped facility with machining, assembly and testing lines built to scale with project demand.	Custom Engineering Valves customized to your exact specification — size, pressure class, materials, ends and trims.
Casting-to-Dispatch Control An integrated quality process from raw casting through to finished, tested and packaged goods.	Project Delivery Reliable lead times and a delivery discipline tuned to keep your plant and projects on schedule.

VALVE RANGE

Gate Valves	Globe Valves	Ball Valves	Butterfly Valves
Check Valves	Plug Valves	Safety Valves	Control Valves
Knife Gate Valves	Diaphragm Valves	Piston Valves	Strainers

STANDARDS & APPROVALS

ISO 9001:2015	API 6D	API 600
API 598 Testing	ANSI / ASME	CE / PED

Our quality system runs from incoming raw material and casting through to final hydro and seat testing, ensuring every valve we ship conforms to the applicable API, ANSI/ASME and ISO standards — with complete documentation.

MATERIALS & TESTING

Specified, tested, documented

Material selection and test regime are matched to the duty — and every result is recorded and handed over with the valve.

Body materials WCB, WC6, LCB, CF8 (SS304), CF8M (SS316) and forged A105 / F11 / F22 / F304 / F316	Trim options 13% Cr, Stellite, SS304 / SS316 and hard-faced trims for severe service
Hydro & seat testing Shell, seat and back-seat testing to API 598 with pressure and leakage records	Documentation Material certificates, test reports and inspection records with every despatch
Non-destructive testing Dye penetrant, radiography and ultrasonic inspection where specified	Coating & preservation Surface preparation and protective coating to the service environment

END CONNECTIONS & OPERATION

Flanged	Butt-weld	Socket-weld	Screwed
Handwheel	Gear operated	Pneumatic actuator	Electric actuator

DOCUMENTATION SUPPLIED

Material test certificates Heat-wise chemical and mechanical properties for body, bonnet and trim	Hydrostatic test reports Shell, seat and back-seat results with pressures and hold times
Dimensional reports Face-to-face, flange drilling and bore verified against the standard	Inspection release note Third-party or in-house inspection sign-off as specified in the order

PRODUCT RANGE

A complete valve portfolio

IN THIS SECTION

Gate Valves	Globe Valves	Ball Valves
Butterfly Valves	Check Valves	Plug Valves
Safety & Relief Valves	Knife Gate Valves	Diaphragm Valves
Piston Valves	Strainers	Pressure Seal Gate Valves
Pressure Seal Globe Valves	Pressure Seal Check Valves	



Gate Valves

Full-bore isolation for on/off pipeline service

Gate valves provide reliable, bidirectional isolation with minimal pressure drop when fully open. The wedge-shaped gate lifts clear of the flow path, making them ideal for on/off duty on liquids ...

KEY FEATURES

- Full-bore design for minimal flow resistance
- Bidirectional tight shut-off
- Bolted-bonnet and pressure-seal constructions

TYPICAL APPLICATIONS

- Oil & gas
- Refineries
- Power plants

Size range	2" – 24" (DN50 – DN600)
Pressure class	Class 150 – 2500 / PN16 – PN450
Standards	API 600 / API 6D / BS 1414 / ANSI B16.34



Globe Valves

Precise throttling and flow regulation

Globe valves are designed for accurate throttling and frequent operation. Their globular body and disc-against-seat closure give excellent flow control and reliable shut-off, making them a standard ...

KEY FEATURES

- Precise throttling and regulation
- Good shut-off with renewable seat & disc
- Lower seat wear under frequent operation

TYPICAL APPLICATIONS

- Steam systems
- Boiler feed
- Cooling water

Size range	2" – 24" (DN50 – DN600)
Pressure class	Class 150 – 2500 / PN16 – PN450
Standards	API 623 / BS 1873 / ANSI B16.34



Ball Valves

Quarter-turn tight shut-off for fast isolation

Ball valves deliver fast, quarter-turn operation and bubble-tight shut-off. A precision-finished ball rotates within resilient or metal seats, offering low torque, minimal maintenance and dependable ...

KEY FEATURES

- Quarter-turn, bubble-tight shut-off
- Floating and trunnion-mounted designs
- Single, two and three-piece constructions

TYPICAL APPLICATIONS

- Oil & gas
- Chemical
- Petrochemical

Size range	1/2" – 36" (DN15 – DN900)
Pressure class	Class 150 – 2500 / PN16 – PN450
Standards	API 6D / API 608 / BS EN ISO 17292



Butterfly Valves

Compact, lightweight control for large bores

Butterfly valves offer compact, economical flow control and isolation, particularly for large-diameter lines. The rotating disc gives quick quarter-turn operation with a low weight and small

...

KEY FEATURES

- Compact, lightweight, low cost per size
- Quick quarter-turn operation
- Resilient-seated and high-performance designs

TYPICAL APPLICATIONS

- Water treatment
- HVAC
- Chemical

Size range	2" – 48" (DN50 – DN1200)
Pressure class	Class 150 – 600 / PN10 – PN100
Standards	API 609 / BS EN 593 / ANSI B16.34



Check Valves

Automatic prevention of reverse flow

Check valves protect equipment and pipelines by allowing flow in one direction and automatically preventing backflow.

KEY FEATURES

- Automatic, non-return reverse-flow protection
- Swing, dual-plate, lift and piston designs
- Low cracking pressure, minimal slam

TYPICAL APPLICATIONS

- Pump discharge
- Boiler feed
- Oil & gas

Size range	2" – 24" (DN50 – DN600)
Pressure class	Class 150 – 2500 / PN16 – PN450
Standards	API 6D / BS 1868 / API 594 / ANSI B16.34



Plug Valves

Rugged quarter-turn shut-off for tough media

Plug valves use a tapered or cylindrical plug for fast quarter-turn isolation, performing reliably on viscous, abrasive and slurry media.

KEY FEATURES

- Quarter-turn operation, compact body
- Excellent on slurry, viscous & abrasive media
- PTFE-sleeved and lubricated designs

TYPICAL APPLICATIONS

- Chemical
- Petrochemical
- Slurry handling

Size range	1/2" – 24" (DN15 – DN600)
Pressure class	Class 150 – 600 / PN16 – PN100
Standards	API 599 / BS 5353 / ANSI B16.34



Safety & Relief Valves

Overpressure protection for vessels and lines

Safety and relief valves safeguard pressure vessels, boilers and pipelines by automatically relieving excess pressure.

KEY FEATURES

- Automatic set-pressure relief
- Pop-action for gas / vapour, modulating for liquid
- Conventional and balanced-bellows designs

TYPICAL APPLICATIONS

- Boilers
- Pressure vessels
- Steam systems

Size range	1/2" – 12" (DN15 – DN300)
Pressure class	Class 150 – 2500
Standards	API 526 / API 527 / ASME Sec. VIII



Knife Gate Valves

Slurry and bulk-media isolation

Knife gate valves are purpose-built for thick, fibrous and abrasive media. A sharp-edged gate cuts through slurry to give clean isolation in a compact, lightweight body – widely used in pulp & paper ...

KEY FEATURES

- Cuts through slurry, fibre and bulk solids
- Compact, lightweight wafer body
- Uni- and bi-directional designs

TYPICAL APPLICATIONS

- Pulp & paper
- Mining
- Sugar

Size range	2" – 40" (DN50 – DN1000)
Pressure class	PN10 / PN16 / Class 150
Standards	MSS SP-81 / EN 593



Diaphragm Valves

Clean, leak-tight control for pure & corrosive media

Diaphragm valves isolate the process fluid from the working parts using a flexible diaphragm, making them ideal for corrosive, hygienic and slurry service.

KEY FEATURES

- Process fluid isolated from working parts
- Excellent for corrosive & hygienic media
- Weir and straight-through designs

TYPICAL APPLICATIONS

- Pharmaceutical
- Food & beverage
- Chemical

Size range	1/2" – 12" (DN15 – DN300)
Pressure class	PN10 / PN16 / Class 150
Standards	BS 5156 / DIN / ANSI B16.34



Piston Valves

Reliable, low-maintenance steam isolation

Piston valves provide durable isolation and regulation, particularly on steam and condensate. Sealing rings around a precision piston give long-life, drip-tight shut-off with the ability to re-seal ...

KEY FEATURES

- Long-life sealing rings, drip-tight shut-off
- Ideal for steam and condensate
- Re-sealable by gland adjustment

TYPICAL APPLICATIONS

- Steam systems
- Condensate
- Heating

Size range	1/2" - 10" (DN15 - DN250)
Pressure class	PN16 - PN40 / Class 150 - 300
Standards	BS / DIN / ANSI B16.34



Strainers

Pipeline protection from debris and particulates

Strainers protect pumps, valves, meters and other equipment by capturing pipeline debris before it causes damage.

KEY FEATURES

- Protects downstream equipment from debris
- Y, basket and T-type designs
- Range of perforation / mesh sizes

TYPICAL APPLICATIONS

- Pump protection
- Steam lines
- Oil & gas

Size range	1/2" - 24" (DN15 - DN600)
Pressure class	Class 150 - 800 / PN16 - PN100
Standards	ANSI B16.34 / manufacturer standard



Pressure Seal Gate Valves

High-pressure sealing gate valves for severe service

Pressure seal gate valves are engineered for high-pressure, high-temperature isolation. The self-energising pressure-seal bonnet tightens further as internal pressure rises, giving a dependable ...

KEY FEATURES

- Self-energising pressure-seal bonnet
- Sealing tightens as pressure rises
- Full-bore, bidirectional isolation

TYPICAL APPLICATIONS

- Power plants
- Boiler feed
- Refineries

Size range	2" – 24" (DN50 – DN600)
Pressure class	Class 600 – 2500
Standards	API 600 / BS 1414 / ANSI B16.34



Pressure Seal Globe Valves

High-pressure sealing globe valves for throttling duty

Pressure seal globe valves deliver precise throttling and tight shut-off under high pressure and temperature. The pressure-seal bonnet keeps the body-to-bonnet joint sealed as line pressure ...

KEY FEATURES

- Self-energising pressure-seal bonnet
- Precise throttling and regulation
- Renewable seat and disc

TYPICAL APPLICATIONS

- Power plants
- Boiler feed
- Steam systems

Size range	2" – 24" (DN50 – DN600)
Pressure class	Class 600 – 2500
Standards	BS 1873 / ANSI B16.34



Pressure Seal Check Valves

High-pressure sealing non-return valves

Pressure seal check valves prevent reverse flow in high-pressure lines. The self-tightening pressure-seal bonnet forms a leak-tight joint, making them well suited to boiler feed, power and refinery ...

KEY FEATURES

- Self-energising pressure-seal bonnet
- Automatic non-return protection
- Swing and piston designs

TYPICAL APPLICATIONS

- Pump discharge
- Boiler feed
- Power plants

Size range	2" – 24" (DN50 – DN600)
Pressure class	Class 600 – 2500
Standards	BS 1868 / API 6D / ANSI B16.34

CUSTOM & SPECIAL-PURPOSE VALVES

Built to your specification Non-standard sizes, pressure classes, materials and trims engineered to the duty	Actuation packages Pneumatic, electric and gear operators supplied, mounted and tested
Spares & replacement parts Seats, discs, stems, gaskets and gland packing for valves in service	Repair & refurbishment Existing valves restored to OEM performance – see our services catalogue

Sizes, pressure classes and materials shown are indicative of our standard range. Non-standard requirements are quoted on application – send us the operating conditions and we will confirm the buildable configuration.

INDUSTRIES

Where our valves work

We supply plants where reliability under pressure is not negotiable.

Oil & Gas Upstream, midstream and refinery service	Petrochemical Severe-service and high-cycle duty	Chemical Corrosive and aggressive media
Fertilizer Ammonia, urea and process lines	Power Plants Steam, feedwater and condensate	Steel High-temperature and abrasive service
Marine Compact, corrosion-resistant isolation	Water Treatment Large-bore isolation and control	Pharmaceutical Clean, leak-tight handling
Food Processing Hygienic and wash-down duty	Cement Dust, slurry and bulk handling	Mining Slurry isolation and heavy wear

HOW TO ORDER

1. Share the duty Line size, pressure class, temperature, media and end connections	2. We propose Recommended valve type, materials and trim, with pricing and lead time	3. We build and test Manufactured, hydro and seat tested, documented and despatched
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Not sure which valve suits your application? Send us the operating conditions and our engineering team will recommend the right configuration.



Let's work together

Share your requirement — size, pressure class, materials and ends — or tell us about your next shutdown. Our team will respond with a tailored proposal. Emergency support is available 24/7.



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Engineering Flow. Built to Last.