

ZNX

ZNX VALVE CO., LTD

Product Catalog 2026

Industrial Valves for Global Markets

Butterfly Valves · Check Valves · Gate Valves · Strainers

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About ZNX VALVE

Founded in 2005 in Tianjin, China, **ZNX VALVE CO., LTD** has grown from a small workshop into a leading manufacturer of industrial valves. We specialize in the design, production and export of high-quality fluid control equipment including butterfly valves, check valves, gate valves and strainers.

Today, with a **7,000 square meter** modern manufacturing facility and a dedicated team of **120 skilled professionals**, we serve customers across more than **30 countries** worldwide. Our commitment to quality, innovation and customer satisfaction has made us a trusted partner in fluid control solutions.



ZNX manufacturing facility — Xiaozhan Industrial Park, Tianjin, China

20+	120	7,000 m²	30+
Years of Experience	Skilled Employees	Modern Factory	Countries Served

Our Journey (2005 - 2026)

Year	Milestone
2005	Founded in Tianjin as a small workshop
2010	First export order to Southeast Asia
2014	Moved to 7,000 m ² modern factory in Xiaozhan Industrial Park
2017	Achieved ISO 9001 certification and CE marking
2020	Team grew to 100+ skilled employees, added automated production lines
2024	Serving 30+ countries, dedicated teams for EU, LATAM, Russia/CIS
2026	Investing in R&D, smart manufacturing and digital service platforms

1. Butterfly Valves

Types: Wafer, Lug, Double Flanged | **Sizes:** DN50 - DN1200 (2" - 48")



Technical Specifications

Parameter	Specification
Pressure Rating	PN10, PN16, ANSI 150
Body Material	Ductile Iron, Cast Iron, Stainless Steel, WCB
Disc Material	SS304, SS316, Ductile Iron (Ni-plated), Bronze
Seat Material	EPDM, NBR, PTFE, Viton, Hypalon
Stem Material	SS416, SS304, SS316
Connection	Wafer, Lug, Double Flanged (ANSI, DIN, BS, JIS)
Operation	Lever, Gearbox, Electric, Pneumatic Actuator
Working Temp.	-20°C to +200°C (depending on seat)
Standards	API 609, EN 593, MSS SP-67, AWWA C504
Testing	API 598, EN 12266

Key Features

- One-piece ductile iron body for high strength and durability
- Replaceable EPDM/NBR/PTFE seat for easy maintenance
- SS316 disc with polished edge for bubble-tight shutoff
- ISO 5211 mounting pad for direct actuator installation
- Bi-directional sealing suitable for dead-end service (lug type)
- Low operating torque, easy manual or automated operation
- 100% shell and seat hydrostatic tested before shipment

Applications

- Municipal water supply and distribution networks
- Wastewater and sewage treatment plants
- Seawater desalination RO systems
- HVAC and chilled water systems
- Fire protection and sprinkler systems
- Power plant cooling water circuits
- Chemical, petroleum, and general industrial pipelines

1.1 Wafer Butterfly Valve

DN50 - DN1200 | PN10/PN16/ANSI 150 | Concentric

Slim wafer body sandwiched between pipe flanges by through-bolts. The lightest and most economical design for water, HVAC and fire protection.

Parameter	Specification
Pressure Rating	PN10, PN16, ANSI 150
Body Material	Ductile Iron GJS400-18, Cast Iron GJL250
Disc Material	SS304, SS316, Ductile Iron (Ni-plated)
Seat Material	EPDM, NBR
Connection	Wafer (through-bolt mounting)
Face to Face	ISO 5752 Series 20, EN 558-1 Series 13/14
Standards	API 609, EN 593, MSS SP-67

1.2 Lug Butterfly Valve

DN50 - DN600 | PN16/ANSI 150 | Dead-End Rated

Tapped lug bosses allow each flange to bolt independently — dead-end service and downstream maintenance without draining the line.

Parameter	Specification
Pressure Rating	PN16, ANSI 150 (dead-end rated)
Body Material	Ductile Iron with SS304/bronze lug inserts
Disc Material	SS304, SS316, Ductile Iron (Ni-plated)
Seat Material	EPDM, NBR
Connection	Lug (tapped bosses)
Standards	API 609, EN 593, MSS SP-67, UL/FM optional

1.3 Double Flange Butterfly Valve

DN150 - DN2000 | PN10/PN16/PN25 | Gear Operated

Full flanges both ends — the most robust connection for large diameters, buried pipelines and pump stations.

Parameter	Specification
Pressure Rating	PN10, PN16, PN25
Body Material	Ductile Iron GJS400-18, epoxy coated
Disc Material	SS304, SS316, DI (Ni-plated / epoxy coated)
Connection	Flanged both ends (ANSI 150, PN10/16, JIS 10K)
Operation	Gearbox from DN350, electric / pneumatic
Standards	API 609, EN 593, AWWA C504, MSS SP-67

1.4 PTFE Lined Butterfly Valve

DN50 - DN600 | PN10/PN16 | Corrosion Resistant

Fully PTFE/PFA lined body with lined or solid SS316 disc, built for acids, alkalis, chlorinated brine and solvents.

Parameter	Specification
Pressure Rating	PN10, PN16
Body Material	Ductile Iron / WCB steel, fully PTFE/PFA lined
Disc Material	SS316 solid or PTFE encapsulated
Working Temp.	-29°C to +180°C (depending on lining)
Vacuum Rating	Full vacuum (lined & reinforced design)
Standards	EN 593, MSS SP-67; lining 100% spark tested

2. Check Valves

Types: Swing, Dual Plate Wafer, Ball Check | **Sizes:** DN50 - DN600 (2" - 24")



Technical Specifications

Parameter	Specification
Pressure Rating	PN10, PN16, PN25, ANSI 125/150
Body Material	Cast Iron, Ductile Iron, WCB, SS304, SS316
Disc Material	Ductile Iron (Ni-plated), SS304, SS316, Bronze, NBR-coated
Seat Material	NBR, EPDM, Viton, PTFE, Metal-to-Metal
Type	Swing Type, Dual Plate Wafer, Ball Check, Lift Check
Connection	Wafer, Lug, Flanged (ANSI, DIN, BS, JIS)
Working Temp.	-10°C to +120°C (up to +300°C for metal seat)
Standards	API 594, API 6D, EN 12334, MSS SP-71
Testing	API 598, EN 12266

Key Features

- Low cracking pressure and rapid closure to prevent water hammer
- Compact dual-plate design saves installation space and weight
- Replaceable seats and discs for easy field maintenance
- Resilient seated designs for bubble-tight shutoff
- Stainless steel internal parts for corrosion resistance
- Suitable for horizontal and vertical (upward flow) installation
- Custom spring options available for specific closing characteristics

Applications

- Pump discharge protection in water supply stations

- Boiler feedwater and condensate systems
- Seawater desalination intake and outfall lines
- Wastewater and sewage pumping stations
- HVAC chilled water and condenser water circuits
- Oil, gas, and petrochemical process pipelines
- Fire fighting and sprinkler systems

2.1 Double Door Check Valve

DN50 - DN600 | PN10/PN16/ANSI 150 | Dual Plate Wafer

Two spring-loaded half-discs close before flow reversal, minimizing water hammer. Wafer body installs between flanges, ~30% the weight of a swing check.

Parameter	Specification
Pressure Rating	PN10, PN16, PN25, ANSI 150
Body Material	Ductile Iron GJS400-18, WCB, SS304/316
Plate Material	SS304, SS316, Ductile Iron (Ni-plated)
Seat Material	NBR, EPDM, Viton, metal-to-metal
Connection	Wafer, lug (ANSI / DIN / BS / JIS)
Installation	Horizontal or vertical (upward flow)
Standards	API 594, EN 12334, MSS SP-71, AWWA C508

2.2 Rubber Lined Check Valve

DN50 - DN1200 | PN10/PN16 | Seawater / Sewage Duty

Body flow passage and flap fully lined with hard rubber/EPDM. Withstands seawater corrosion and gritty sewage that destroy metal seats.

Parameter	Specification
Pressure Rating	PN10, PN16
Body Material	Cast/Ductile iron, fully rubber lined (4-6 mm)
Flap Material	Ductile iron encapsulated in rubber / EPDM
Lining Material	Hard natural rubber, EPDM, neoprene (CR)
Connection	Flanged (DIN / ANSI / BS / JIS)
Working Temp.	-20°C to +80°C
Standards	EN 12334, MSS SP-71, AWWA C508

3. Gate Valves

Types: Resilient Seated, Metal Seated | **Sizes:** DN50 - DN600 (2" - 24")



Technical Specifications

Parameter	Specification
Pressure Rating	PN10, PN16, PN25, ANSI 125/150
Body Material	Cast Iron, Ductile Iron, WCB, SS304, SS316
Wedge Material	Ductile Iron + EPDM encapsulated, SS, Bronze
Seat Material	EPDM, NBR, Bronze, SS (metal seated)
Stem Type	Non-Rising Stem (NRS), Rising Stem (OS&Y)
Stem Material	SS416, SS304, SS316
Connection	Flanged, Threaded, Socket Weld, BW
Working Temp.	-10°C to +120°C (resilient), up to +425°C (metal)
Standards	API 600, API 602, API 6D, EN 1171, EN 1984, AWWA C509/C515
Testing	API 598, EN 12266, AWWA C509

Key Features

- Full bore straight-through design for minimum pressure loss
- EPDM encapsulated wedge for bubble-tight shutoff (resilient seated)
- Ductile iron body with epoxy coating for corrosion resistance
- Replaceable O-ring stem seal for leak-free operation
- Backseat design allows stem seal replacement under pressure
- Fusion-bonded epoxy coating inside and outside (NSF61 available)
- Manual handwheel, gear operator, or electric actuator options

Applications

- Municipal water supply and distribution networks
- Fire protection and sprinkler system isolation
- Sewage and wastewater treatment plants
- Industrial plant isolation and main line service
- Power plant cooling water and auxiliary systems
- Steam, oil, and gas pipelines (metal seated type)
- Building services and HVAC main shutoff

3.1 Non Rising Stem Gate Valve

DN50 - DN600 | PN10/PN16/ANSI 125-150 | NRS

Handwheel rotates in place — the stem never rises. The most compact height, standard for buried pipelines and manhole installations.

Parameter	Specification
Pressure Rating	PN10, PN16, ANSI 125/150
Body Material	Ductile Iron GJS500-7, Cast Iron GJL250
Wedge Material	Ductile iron, fully EPDM encapsulated
Stem	Non-rising, SS416/SS304, bronze nut inside
Coating	Fusion epoxy 250µm, NSF/61 & WRAS available
Operation	Handwheel, bevel gear (DN≥300), buried spindle
Standards	AWWA C509/C515, EN 1074-1/2, BS 5163

3.2 Rising Stem Gate Valve

DN50 - DN600 | PN16/PN25/ANSI 150 | OS&Y;

Stem rises visibly when opening — instant position indication. Preferred for above-ground plants, fire protection and pump rooms.

Parameter	Specification
Pressure Rating	PN16, PN25, ANSI 150
Body Material	Ductile Iron, WCB Carbon Steel, SS304/316
Wedge Material	DI + EPDM (resilient) or solid SS/bronze (metal)
Stem	Rising / OS&Y, ACME thread, SS416/SS304
Working Temp.	-10°C to +120°C (resilient), +425°C (metal, WCB)
Standards	API 600, API 602, EN 1171, EN 1984, UL/FM listed
Testing	API 598, EN 12266 — 100% shell & seat tested

4. Strainers

Types: Y-Type, Basket Type (Single / Duplex) | **Sizes:** DN15 - DN600 (1/2" - 24")



Technical Specifications

Parameter	Specification
Pressure Rating	PN10, PN16, PN25, PN40, ANSI 150/300
Body Material	Cast Iron, Ductile Iron, WCB, SS304, SS316, SS316L
Screen Material	SS304 / SS316 perforated plate or woven mesh
Filtration Grade	0.5 mm - 8 mm (custom on request)
End Connection	Flanged (RF), Threaded BSP/NPT, Socket Weld, Butt Weld
Type	Y-Type Strainer, Basket Strainer, Duplex Strainer
Drain	Drain plug, blow-off valve or flush port
Working Temp.	-29°C to +200°C (higher with metal gaskets)
Standards	ASME B16.34, EN 12516, MSS SP-97 reference
Testing	Shell & seat test per EN 12266 / API 598

Key Features

- Stainless steel screens for long service life and easy cleaning
- Y-type body allows installation in horizontal or vertical lines
- Basket type offers large dirt-holding capacity with low pressure drop
- Drain plug or blow-off port for cleaning without dismantling
- Duplex design enables continuous operation during screen cleaning
- Epoxy coating (internal & external) for water and wastewater service
- Wide choice of end connections and materials for every medium

Applications

- Pump suction and discharge protection
- Water treatment, desalination, and RO membrane protection
- Steam, condensate, and thermal oil lines
- Chemical and petrochemical process lines
- HVAC, chilled water, and cooling tower systems
- Compressed air, nitrogen, and fuel gas systems
- Protection of flow meters, heat exchangers and spray nozzles

Why Choose ZNX

Service	Description
OEM & ODM Service	Custom manufacturing according to your specifications, with flexible MOQ and professional
Strict Quality Control	ISO 9001 certified manufacturing process, 100% pressure testing on every valve before shi
Fast Delivery	Standard products in stock. Custom orders delivered within 30-45 days with reliable global l
Global After-Sales	12-month quality warranty. Technical support in English, Russian and Spanish, 24/7 respon

Contact Us

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