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Butterfly Valve

Gate Valve

Check Valve

Ball Valve

Plug Valve

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Actuator

Gear Box

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JFS

BEIJING JOINT FLOW SYSTEM CO

INTRODUCTION

Beijing Joint Flow System Co. is a science and technology innovative enterprise, established in 1993. We start our business with manufacturing and supplying various electronic and mechanical products under "JFS" brand name to customers in power and water industry. Presently we are a leading supplier for valve products in municipal, mining water supply and cooling water supply system of hydropower industry.

More than a decade's hard work, we have progressively developed, updated and expanded our facilities and abilities for design, manufacturing and testing of our products. We also win the reputation in our markets by the brand name "JFS". It means high quality and best after sale service. Many world's famous projects choose JFS's products, including:

- The world largest hydraulic power plant - Three Gorges Power Plant;
- Minera Gaby Mining project in Chile;
- MWA Mahaswat 4 project in Thailand, etc.

Building on these experiences, we have developed significant business opportunities in customer engineered and manufactured products for a wide variety of industries. Now, it makes us not only supplying the best quality products but also the total solutions to our customer for solving their problems (i.e. Water hammer analysis).

We sell our products throughout China mainland and abroad through manufacturers and representatives, and they, in turn, are directed by JFS's sales managers. Therefore, we offer service on an international basis to all our customers, using only factory trained personnel. It is to your interest as a customer to know we operate this way because it allows us to make our field problems few and far between, due to the fact that we 100% inspect and hydro-pneumatically test (1.5 times for body strength and 1.1 times for sealing based on nominal pressure design) all finished products before shipment is made.

All JFS products carry a written guarantee for at least a period of one (1) year, some products for three (3) years. However, we take pride in our products and very often service our products long after the one (1) year warranty has expired

Three Gorges Power Plant in China

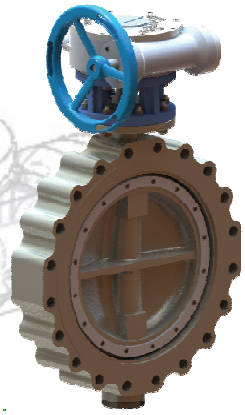
Minera Gaby Mining project in Chile

MWA MS4 project in Thailand

ISO 9000

ISO 14001

API & CE

Double Eccentric Butterfly Valve	High Performance Butterfly Valve
	
Double Eccentric butterfly valves are designed in double offset structure, soft sealing face, as a device to shut-off or regulate the flow and installed in industrial pipelines to handle especially the situation requires bi-directional sealing.	High performance butterfly valve, as a development of double eccentric butterfly valve, features a steel body with stainless steel trim ideally suited for commercial, industrial and mechanical HVAC services, and seats of reinforced PTFE for exceptional chemical and heat resistance which provides bubble-tight shutoff in both directions.
Size range: DN 100～3600 or NPS 4″～144″	Size range: DN 50～1200 or NPS 2″～48″
Pressure range: PN 10～25 or CLASS 150	Pressure range: PN 10～100 or CLASS 150～600
Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.	Design standard: AWWA, API, ASME, MSS
Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.	Available body material: Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.
Available seal material: NBR (Nitrile, Buna-N), EPDM, Viton (FKM), Silicone rubber, etc.	Available seal material: PTFE (Teflon), RPTFE, etc.
Connection end type: Double flange, Lug, Wafer	Connection end type: Double flange, Lug, Wafer
Operation type: Hand lever, Worm gear, Electric, Pneumatic, Hydraulic	Operation type: Hand lever, Worm gear, Electric, Pneumatic, Hydraulic
Feature: Bi-directional	Feature: Bi-directional, High-performance

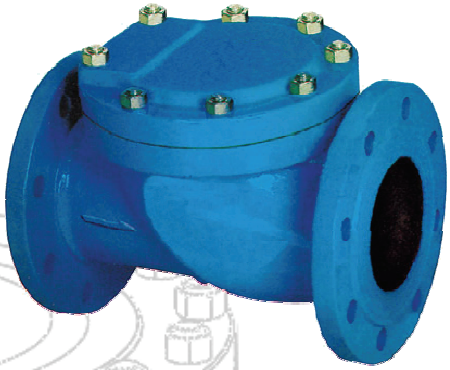
Triple Eccentric Butterfly Valve	Power-pack Controlled Butterfly Valve
Triple eccentric butterfly valves, designed in triple offset structure, laminated seal or metal to metal seat, can handle higher temperature and higher pressure with medium of water, oil and gas.	Power-pack Controlled Butterfly Valve is a kind of tailor-made product, as it can be different combination with butterfly valve and control system, which is designed to be automatically closed by gravity closing devices, and opened by electric and hydraulic actuator.
Size range: DN 50～3000 or NPS 2″～120″	Size range: DN 100～3600 or NPS 4″～144″
Pressure range: PN 10～160 or CLASS 150～900	Pressure range: PN 10～25 or CLASS 150
Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.	Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.
Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.	Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.
Available seal material: Laminated seal ring (S.S. + graphite, S.S. + PTFE), etc.	Available seal material: Soft seal (EPDM, Viton, PTFE, etc.), Metal-metal seal (Laminated seal ring)
Connection end type: Double flange, Lug, Wafer, Butt weld	Connection end type: Double flange, Lug, Wafer, Butt weld
Operation type: Hand lever, Worm gear, Electric, Pneumatic, Hydraulic	Operation type: Hydraulic actuator
Feature: More temperature application Bi-directional (option)	Feature: Power-pack controlled

Concentric Butterfly Valve	Rubber Lined Butterfly Valve
Concentric butterfly valve is a kind of valve with simple center line structure, soft seat to provide positive shutoff bi-directional sealing, designed as a device to shut-off or regulate the working medium of acid, alkali, salt and oxidant, reducing agent, organic solvent.	Rubber Lined butterfly valve is a kind of valve with simple center line structure, soft seat to provide positive shutoff bi-directional sealing, designed as a device to shut-off or regulate the working medium of acid, alkali, salt and oxidant, reducing agent, organic solvent.
Size range: DN 50～1200 or NPS 2″～48″	Size range: DN 50～1200 or NPS 2″～48″
Pressure range: PN 10～16 or CLASS 125	Pressure range: PN 10～16 or CLASS 125
Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.	Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.
Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc.	Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc.
Available seal material: NBR (Nitrile, Buna-N), Neoprene, EPDM, Viton (FKM), PTFE (Teflon), etc.	Available seal material: NBR (Nitrile, Buna-N), Neoprene, EPDM, Viton (FKM), PTFE (Teflon), etc.
Connection end type: Double flange, Lug, Wafer, Butt weld	Connection end type: Double flange, Lug, Wafer, Butt weld
Operation type: Hand lever, Worm gear, Electric, Pneumatic, Hydraulic	Operation type: Hand lever, Worm gear, Electric, Pneumatic, Hydraulic
Feature: Better sealing performance	Feature: Better sealing performance and corrosion resistence

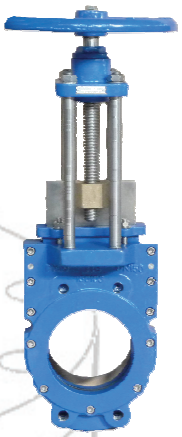
Resilient Seated Gate Valve	Solid Wedge Gate Valve
Resilient seated gate valves, designed with rubber encapsulated DI wedge to ensure drip tight sealing and available in rising stem and non-rising stem styles, are suitable for use in drinking water and waste water, which can be installed under or above ground.	As a closing device in pipeline systems, solid wedge gate valve is a kind of metal to metal seated valves and available in rising stem and non-rising stem styles, suitable in applications with water supply, sewage treatment and neutral liquids in the mining industry, enterprises and high buildings.
Size range: DN 40～1200 or NPS 1-1/2″～48″	Size range: DN 50～2000 or NPS 2″～80″
Pressure range: PN 10～16 or CLASS 125	Pressure range: PN 10～160 or CLASS 150～900
Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.	Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.
Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc.	Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.
Available seal material: NBR (Nitrile, Buna-N), EPDM, etc.	Available seal material: Body material, Cemented carbide, Stainless steel, Alloy steel, Copper alloy, etc.
Connection end type: Double flange	Connection end type: Double flange
Operation type: Hand wheel, Gear box, Electric actuator, Pneumatic actuator	Operation type: Hand wheel, Gear box, Electric actuator, Pneumatic actuator
Feature: Better sealing performance	Feature: Higher pressure and temperature application

Tilting Disc Check Valve	Butterfly Check Valve
Tilting disc check valves, designed as two-pieces body with a 55 degree angle between disc (seat) and centerline of flow passage to provide low flow resistance, is installed in the outlet of a pump or water supply & drainage pipelines with medium of water or oil to prevent flow reversal or excessive water hammer during normal working or failure of pump.	Butterfly check valve, combination function of butterfly valve and check valve and designed as triple offset structure, is widely used as a non slam check valve to prevent flow reversal or excessive water hammer due to unique automatic quick closure to slow closure's stroke design.
Size range: DN 100～1800 or NPS 4″～72″	Size range: DN 200～2400 or NPS 8″～96″
Pressure range: PN 10～100 or CLASS 150～600	Pressure range: PN 10～100 or CLASS 150～600
Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.	Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.
Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.	Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.
Available seal material: Laminated seal ring (S.S. + graphite, S.S. + PTFE), etc.	Available seal material: Laminated seal ring (S.S. + graphite, S.S. + PTFE), etc.
Connection end type: Double flange	Connection end type: Double flange
Operation type: Counter weight and Hydraulic cylinder	Operation type: Counter weight and Hydraulic cylinder
Feature: 55 degree split body design Minimum headloss	Feature: Non slam closure

Dual Flapper Check Valve	Single Flapper Check Valve
Dual flapper check valve is designed to prevent pipelines from medium backflow and has features of short length and light weight, quick valve closure stroke and low water hammer compared with conventional check valve.	Single flapper check valve is designed to prevent pipelines from medium backflow and has features of short length and light weight, quick valve closure stroke and low water hammer compared with conventional check valve.
Size range: DN 40～1500 or NPS 1-1/2″～60″	Size range: DN 50～600 or NPS 2″～24″
Pressure range: PN 10～150 or CLASS 150～900	Pressure range: PN 10～110 or CLASS 150～600
Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.	Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.
Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.	Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.
Available seal material: NBR (Nitrile, Buna-N), EPDM, Viton (FKM), Body material, Stainless steel, Alloy steel, Copper alloy, etc.	Available seal material: NBR (Nitrile, Buna-N), EPDM, Viton (FKM), PTFE (Teflon), Body material, Stainless steel, Alloy steel, Copper alloy, etc.
Connection end type: Double flange, Lug, Wafer	Connection end type: Double flange, Lug, Wafer
Feature: Dual flapper structure	Feature: Single flapper design Short body and long body available

Swing Check Valve	Rubber Flapper Check Valve
	
Swing Check Valve is a robust design to prevent back flow assured by the free swinging clapper design which responds to the changes in flow and provides positive closure prior to the reversal of flow.	Rubber flapper check valve is a kind of swing check valve with rubber encapsulated on the swing flapper to provide long service and sealing compensation performance and mainly used in the pipeline pump discharge of water supply system, oil, chemical and industry departments.
Size range: DN 25～500 or NPS 1″～20″	Size range: DN 50～600 or NPS 2″～24″
Pressure range: PN 10～250 or CLASS 150～900	Pressure range: PN 10～16 or CLASS 125
Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.	Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.
Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.	Available body material: Cast Iron: A126 Gr. B, GG40, etc. Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc.
Available seal material: Body material, Alloy steel, Copper alloy, etc.	Available seal material: NR, NBR (Nitrile, Buna-N), EPDM, etc.
Connection end type: Double flange	Connection end type: Double flange
Feature: Metal-metal seat	Feature: Swing flapper fully encapsulated with rubber

Floating Ball Valve	Trunnion Ball Valve
Floating ball valves are widely used in pipeline controlling system such as flow rate control, liquid position control and temperature control system for achieving conventional on-off, emergency shut off and quick closing function to control the working flow.	Trunnion ball valves feature 2 pc or 3 pc split body side entry or top entry design, incorporate the use of upper and lower supports to retain the ball under pressure and have a secondary sealant injection system for stem seals and seats in the event of providing a temporary seal to an otherwise damaged area.
Size range: DN 8～200 or NPS 1/4″～8″	Size range: DN 50～900 or NPS 2″～36″
Pressure range: PN 10～160 or CLASS 150～2500	Pressure range: PN 10～160 or CLASS 150～2500
Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.	Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.
Available body material: Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.	Available body material: Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.
Available seal material: PTFE (Teflon), Nylon, Cemented carbide, Stainless steel, Alloy steel, etc.	Available seal material: PTFE (Teflon), Nylon, Cemented carbide, Stainless steel, Alloy steel, etc.
Connection end type: Double flange	Connection end type: Double flange
Operation type: Hand lever, Worm wheel, Electric, Pneumatic, Hydraulic	Operation type: Hand lever, Worm wheel, Electric, Pneumatic, Hydraulic
Feature: Float ball type	Feature: Trunnion ball type

Eccentric Plug Valve	Knife Valve
	
Eccentric plug valves are extremely versatile valves that are found widely in low-pressure sanitary and industrial applications, especially petroleum pipelines, chemical processing and related fields, and power plants.	Knife valve is a lined valve with a DI, CS, or SS body and corrosion resistance of SS wetted parts, both uni-directional and bi-directional sealing available for non-clogging shut off in industries such as pulp and paper, power and wastewater treatment plants, food and beverage, chemicals, mining, etc.
Size range: DN 65～1800 or NPS 2-1/2″～72″	Size range: DN 50～800 or NPS 2″～36″
Pressure range: PN 10～25 or CLASS 125～150	Pressure range: PN 10～16 or CLASS 125
Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.	Design standard: AWWA, API, ASME, MSS, BS, DIN, ISO, etc.
Available material: Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.	Available material: Ductile Iron: A536 Gr. 65-45-12, GGG40, GGG50, etc. Carbon Steel: WCB, A105, LF2, LCC, etc. Stainless Steel: 304, 316, 304L, 316L, CF3, CF8, CF3M, CF8M, F304, F316, F304L, F316L, 17-4PH, F6a, etc. Duplex Stainless Steel: 2205, 2507, 4A, 5A, F51, F53, F55, CD3MWCuN, CD4MCu, etc. Alloy Steel: Titanium, Hastelloy C276, 904L, 20#, etc.
Available seal material: NBR (Nitrile, Buna-N), Neoprene, EPDM, etc.	Available seal material: EPDM, Viton, PTFE, Cemented carbide, Stainless steel, etc.
Connection end type: Double flange	Connection end type: Double flange, Lug, Wafer
Operation type: Hand wheel, Gear box, Electric, Pneumatic, Hydraulic	Operation type: Hand wheel, Gear box, Sprocket wheel, Electric, Pneumatic
Feature: Soft sealing	Feature: Soft seal, metal seal, and bi-directional soft seat available