



HANGZHOU KAIWEI
VALVE GROUP CO.,LTD.

CONTROL VALVE SERIES

Exploring Innovation in the Industrial Fluid Sector



KAIWEI VALVE GROUP



COMPANY PROFILE

Hangzhou Kaiwei Valve Group Co., Ltd., established in 2015, is a cutting-edge industrial enterprise that specializes in the R&D, design, casting, production, and sales of fluid control products and services. Our state-of-the-art facility spans 58 acres with an investment of 100 million RMB, employing a skilled team of 56 technical staff, including 15 senior engineers and 20 engineers, and operates over 150 pieces of precision equipment. This includes advanced CNC machine tools, multi-axis processing centers, high-precision lathes, and top-grade automatic welding machines. Our testing arsenal features material spectrometers, tensile testers, hardness testers, ultrasonic flaw detectors, thickness gauges, metal film analyzers, and a comprehensive physical and chemical analysis lab. Kaiwei has earned numerous certifications including ISO 9001, environmental and occupational health certifications, API, CCS, European PED, DNV, SIL-3, TALUFF, TS-A1, among others.

Our valves are pivotal in industries like oil, natural gas, metallurgy, power generation, pharmaceuticals, and petrochemicals. Our expansive product line encompasses 1PC cast steel floating ball valves, 2PC and 3PC cast/forged steel floating and trunnion mounted ball valves, hard seal ball valves, fully welded ball valves, top entry ball valves, cryogenic valves, ceramic valves, three-way ball valves, butterfly valves, gate valves, and globe valves, meeting or exceeding API standards. Our materials range from carbon steel, stainless steel, duplex stainless steel, and alloy steel to high-tech materials like Inconel 625, Monel, alloy 20, titanium, and ceramics. Valve sizes range from 1/2" to 56", with pressure ratings from 150 to 2500 LBS, accommodating various connection types and actuators to meet diverse market demands.

Kaiwei Valve ensures rigorous supply chain control from raw materials to finished products, supported by a comprehensive quality assurance and management system that aligns with international standards. Our operations are enhanced by 6S management, ERP, logistics distribution, warehousing, procurement, accounting, quality standards, employee behavior guidelines, occupational health, and safety, guaranteeing the provision of high-quality valves to our clients.



For a worker to excel in his duties, it is imperative that his tools are first refined. This principle is well understood by the Kaiwei people. Merely possessing competent management, innovative ideas, and skilled talents is insufficient. Advanced equipment is equally crucial to epitomize a corporation's robust capabilities, bolster production capacities, and guarantee the exceptional quality of its offerings.

PRODUCTION WORKSHOP



Quality mirrors our dignity, and exceptional quality stands firmly against mediocrity. Through a meticulously refined and standardized management system, alongside a systematic quality assurance framework, Kaiwei ensures its products flow unimpeded to every corner of the world. Through effective efforts and partnerships with customers, Kaiwei is on its path to becoming a globally recognized brand synonymous with flawlessness.

QUALITY ASSURANCE

Pneumatic Control Valve

Design Features

- Embraces a modular design concept.
- The valve's inner cavity features an S-shaped distribution, ensuring smooth flow without dead angles.
- Utilizes an upper guide for the spool, providing stable guidance.
- Offers a wide adjustable range with high adjustment accuracy.
- Incorporates multi-spring diaphragm and piston actuators for enhanced control.
- Suitable for the regulation of various fluid media.

Technical Parameter

- Body Material: ASTM A216 WCB, ASTM A351 CF8M, ZG230-450
- Nominal Size: NPS 3/4" to 12" (DN20 to DN300)
- Pressure Range: Class 150 to 900 LB (PN16 to PN100)
- Working Temperature: -196°C to 538°C
- Connection Method: Flanged (FF, RF), Ring Type Joint (RTJ), Lug (LF), Butt Weld (BW)
- Flow Characteristic: Equal percentage, linear, quick opening
- Bonnet Type: Standard, Extended, Low Temperature
- Adjustable Range: 50:1
- Design Standards: ASME B16.34, IEC 60534, ISA S75.03/S75.16
- Leakage Level: ANSI B16.104 Class IV



Electric Control Valve

Design Features

- Adopts a modular design concept.
- Features an S-shaped inner cavity distribution, ensuring smooth flow and elimination of dead angles.
- Employs an upper guide for the spool, resulting in stable operation.
- Offers a wide adjustable range with high adjustment accuracy.
- Incorporates an electronic electric actuator for precise control.
- Suitable for managing the flow of various fluid media.

Technical Parameter

- Body Material: ASTM A216 WCB, ASTM A351 CF8M, ZG230-450
- Nominal Size: NPS 3/4" to 12" (DN20 to DN300)
- Pressure Range: Class 150 to 900 LB (PN16 to PN100)
- Working Temperature: -196°C to 538°C
- Connection Method: Flange (FF, RF), Ring Type Joint (RTJ), Lug (LF), Butt Weld (BW)
- Flow Characteristic: Equal percentage, Linear, Quick opening
- Bonnet Type: Standard, Extended for High Temperature, Low Temperature
- Adjustable Range: 50:1
- Design Standards: ASME B16.34, IEC 60534, ISA S75.03/S75.16
- Leakage Level: ANSI B16.104 Class IV, V, VI



Pneumatic Ball Valve

Design Features

- Features a simple structure that ensures excellent tightness and requires minimal torque.
- Offers both reduced bore and full bore types to minimize flow resistance.
- Equipped with low emission packing for environmental compliance.
- Incorporates fire-safe, anti-static, and anti-blowout stem design for enhanced safety.
- Available in both floating type and trunnion mounted type configurations.
- Operation is facilitated through a pneumatic drive device for reliable and efficient control.

Technical Parameter

- Body Material: ASTM A216 WCB, ASTM A351 CF8M, ASTM A352 LCB, A105
- Nominal Size: NPS 2" to 40"
- Pressure Rating: Class 150 to 900 LB
- Working Temperature: -40°C to 450°C
- Connection Method: Raised Face (RF), Ring Type Joint (RTJ), Butt Weld (BW), Socket Weld (SW)
- Design Standards: API 6D, API 608, ASME B16.34, ISO 17292
- Inspection and Test: API 598, API 6D
- Connection Ends: ASME B16.5, ASME B16.25, ASME B16.11
- Face to Face: ASME B16.10, API 6D
- Fire Safe: API 607, API 6FA



Electric Ball Valve

Design Features

- Features a simple structure, ensuring excellent tightness and requiring minimal torque for operation.
- Available in both reduced bore and full bore types, designed to offer minimal flow resistance.
- Equipped with low emission packing, addressing environmental concerns.
- Incorporates fire-safe, anti-static, and anti-blowout stem design for enhanced safety and reliability.
- Offers both floating type and trunnion mounted type ball valves, catering to diverse application needs.
- Operated via an electric drive device, providing precise and efficient control.

Technical Parameter

- Body Material: ASTM A216 WCB, ASTM A351 CF8M, ASTM A352 LCB, A105
- Nominal Size: NPS 2" to 40"
- Pressure Rating: Class 150 to 900 LB
- Working Temperature: -40°C to 450°C
- Connection Method: Raised Face (RF), Ring Type Joint (RTJ), Butt Weld (BW), Socket Weld (SW)
- Design Standards: API 6D, API 608, ASME B16.34, ISO 17292
- Inspection and Test: API 598, API 6D
- Connection Ends: ASME B16.5, ASME B16.25, ASME B16.11
- Face to Face: ASME B16.10, API 6D
- Fire Safe: API 607, API 6FA



Pneumatic Butterfly Valve

Design Features

- Features a unique structure with low operational torque.
- Boasts a compact and flexible structure, ensuring labor-saving and convenient operation.
- Delivers reliable sealing that meets all levels of standard requirements.
- Offers a fire safety tested design, with an optional configuration available.
- Provides excellent flow characteristics and adjustable functionality.
- Operation is facilitated by a pneumatic drive device for efficient control.

TechnicalParameter

- Body Material: ASTM A216 WCB, A351 CF8M, A352 LCB
- Nominal Size: NPS 3" to 56"
- Pressure Range: Class 150 to 1500 LB
- Working Temperature: -196°C to 600°C
- Connection Method: Wafer, Flange, Lug
- Design Standards: API 609, ASME B16.34
- Inspection and Test: API 598, ISO 5208
- Connection Ends: ASME B16.5, ASME B16.47
- Face to Face: API 609, ISO 5752
- Fire Safe: API 607, API 6FA



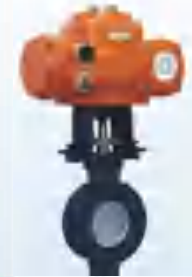
Electric Butterfly Valve

Design Features

- Unique structure with low torque requirement.
- Compact design ensuring flexible operation, labor efficiency, and convenience.
- Features reliable sealing that meets various standard levels.
- Incorporates a fire safety tested design, with an optional configuration available.
- Offers excellent flow characteristics with adjustable functionality.
- Operated by an electric drive device for precise control.

Technical Parameter

- Body Material: ASTM A216 WCB, ASTM A351 CF8M, ASTM A352 LCB
- Nominal Size: NPS 3" to 56"
- Pressure Range: Class 150 to 1500 LB
- Working Temperature: -196°C to 600°C
- Connection Method: Wafer, Flange, Lug
- Design Standards: API 609, ASME B16.34
- Inspection and Test: API 598, ISO 5208
- Connection Ends: ASME B16.5, ASME B16.47
- Face to Face: API 609, ISO 5752
- Fire Safety: API 607, API 6FA



Pneumatic Cut-off Valve

Design Features

- The cut-off valve features a thin-film, multi-spring actuator, linked to the adjustment mechanism via three columns.
- The valve body is designed with a channel of equal cross-section, optimizing flow resistance in accordance with fluid mechanics principles.
- The valve trim's sealing component is available in two variations: tight and soft seal, both offering superior sealing performance upon closure.
- Incorporates balanced valve trim to enhance the shut-off valve's permissible differential pressure.

Technical Parameter

- Body Material: ASTM A216 WCB, ASTM A351 CF8M, ZG270-500, ZG1Cr18Ni9Ti
- Nominal Size: NPS 3/4" to 8" (DN20 to DN200)
- Pressure Range: Class 150 to 300 LB (PN16 to PN40)
- Working Temperature: -40°C to 450°C
- Connection Method: Flange connection, recessed
- Design Standards: Q/DF102, GB/T 4213, GB/T 1047
- Flow Characteristic: Dual quick-opening characteristics
- Gland Type: Bolt compression type
- Structure Type: Straight-through casting ball valve



Self-operated Control Valve

Design Features

- The self-operated pressure regulating valve operates without the need for external energy sources.
- The device is characterized by its sensitive response, minimal control pressure fluctuation, and energy efficiency.
- Ideally suited for applications with minor pressure regulation ratios across the valve.
- Utilized in the automatic control systems of various industrial equipment.

Technica Parameter

- Body Material: ASTM A216 WCB, ASTM A351 CF8M, ZG230-450
- Nominal Size: NPS 3/4" to 12" (DN20 to DN300)
- Pressure Range: Class 150 to 600 LB (PN16 to PN40)
- Working Temperature: -60°C to 550°C
- Connection Method: Raised Face (RF), Lug Type (LF)
- Flow Characteristic: Quick Opening
- Adjustable Range: 30:1
- Bonnet Type: Standard
- Structure Type: Spherical Body, Double Spool Balanced Type
- Design Standards: JB/T 11049, GB/T 12221
- Leakage Level: ANSI B16.104 Class IV, V, or VI





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