



HANGZHOU KAIWEI
VALVE GROUP CO.,LTD.

BALL 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, 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

Casted Floating Ball Valve

Design Features

- Features a straightforward design that ensures optimal sealing and minimal torque requirements.-Offers both reduced bore and full bore options to minimize flow resistance.
- Incorporates low emission packing for enhanced environmental safety.
- Engineered with fire-safe, anti-static, and anti-blowout stem designs for added safety.
- Equipped with an optional locking mechanism for secure operation.
- Optional ISO 5211 top flange for compatibility with a wide range of actuation options.

Technical Parameter

- Body Material: ASTM A216 WCB, ASTM A351 CF8M, ASTM A352 LCB
- Nominal Size: NPS 1/2" to 10"
- Pressure Range: Class 150 to 600 LB
- Working Temperature: -46°C to 200°C
- Connection Method: RF (Raised Face), RTJ (Ring Type Joint), BW (Butt Weld), SW (Socket Weld)
- Design Standards: API 6D, API 608, ASME B16.34, ISO 17292
- Inspection and Test: API 598, API 6D
- Connection Ends: ASME B16.5 (Flanged), ASME B16.25 (Butt Welding Ends), ASME B16.11 (Socket Welding and Threaded)
- Face to Face: ASME B16.10, API 6D
- Fire Safe: API 607, API 6FA



Forged Floating Ball Valve

Design Features

- Adopts a two or three-piece split body design, enhancing ease of maintenance and structural integrity.-Features a simple structure that ensures excellent tightness and requires minimal torque for operation.-Incorporates low emission packing to meet environmental standards.
- Designed with fire-safe, anti-static, and stem blow-out prevention features for increased safety.
- Offers an optional locking device for additional security.
- Available with an optional ISO 5211 top flange for easy actuator mounting.

Technical Parameter

- Body Material: ASTM A105, ASTM A182 F316/F304, ASTM A350 LF2
- Nominal Size: NPS 1/2" to 10"
- Pressure Rating: Class 150 to 2500 LB
- Working Temperature: -60°C to 260°C
- Connection Method: RF (Raised Face), RTJ (Ring Type Joint), BW (Butt Weld), SW (Socket Weld)-Design Standards: API 6D, API 608, ASME B16.34, ISO 17292
- Inspection and Test: API 598, API 6D
- Connection Ends: ASME B16.5 (Flanged), ASME B16.25 (Buttwelding Ends), ASME B16.11 (Forged Fittings)
- Face to Face: ASME B16.10, API 6D
- Fire Safety: API 607, API 6FA



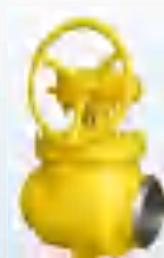
Top-Entry Ball Valve

Design Features

- Features a simple structure that ensures excellent tightness and requires minimal operational torque.-Includes emergency sealant injection capability for critical sealing enhancement.
- Equipped with cavity pressure self-relief to manage overpressure safely.
- Utilizes low emission packing materials to minimize environmental impact.
- Designed with fire-safe, anti-static, and stem blow-out prevention mechanisms for increased safety.-Offers an optional extended bonnet for high temperature or cryogenic applications.

Technical Parameter

- Body Material: ASTM A216 WCB, ASTM A351 CF8M, ASTM A352 LCB
- Nominal Size: NPS 2" to 36"
- Pressure Range: Class 150 to 2500 LB
- Working Temperature: -46°C to 200°C
- Connection Method: RF (Raised Face), RTJ (Ring Type Joint), BW (Butt Weld), SW (Socket Weld)-Design Standards: API 6D, API 608, ASME B16.34, ISO 17292
- Inspection and Test: API 598, API 6D
- Connection Ends: ASME B16.5 (Flanged), ASME B16.25 (Buttwelding Ends), ASME B16.11 (Socket Weld and Threaded)
- Face to Face: ASME B16.10, API 6D
- Fire Safety: API 607, API 6FA



Cryogenic Ball Valve

Design Features

- Equipped with a locking device to prevent inadvertent valve operation.
- Features a stem fly-out prevention structure for enhanced safety.
- Designed with fireproof and anti-static capabilities for operational security.
- Incorporates an extended bonnet design, ensuring high sealing reliability at the valve's stem packing position.
- The seat and pressure relief structure are engineered to accommodate various working conditions.-Utilizes a top-entry structure for convenient on-line maintenance.

Technical Parameter

- Body Material: A351 CF8, CF8M, CF3, CF3M; A352 LCB, LCC
- Nominal Size: NPS 1/2" to 48"
- Pressure Rating: Class 150 to 1500 LB
- Working Temperature: -196°C to 340°C
- Connection Method: RF (Raised Face), RTJ (Ring Type Joint), BW (Butt Weld), SW (Socket Weld)-Design Standards: API 6D, API 608, ASME B16.34, ISO 17292, BS 5351, BS 6364
- Inspection and Test: API 598, API 6D
- Connection Ends: ASME B16.5 (Flanges), ASME B16.25 (Buttwelding Ends), ASME B16.11 (Socket Weld and Threaded)
- Face to Face: ASME B16.10, API 6D
- Fire Safe: API 607, API 6FA



Casted Trunnion Mounted Ball Valve

Design Features

- Utilizes a trunnion-mounted ball design for stability and reduced operational torque.
- Incorporates a fireproof structure with an anti-static device for enhanced safety.
- Features a full bore design, ensuring strong flow capacity with minimal flow resistance .-
- Designed with stem blow-out resistance for improved reliability.
- Equipped with emergency grease injection points for the stem and seat to ensure seal integrity under adverse conditions.

Technical Parameter

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



Forged Trunnion Mounted Ball Valve

Design Features

- Features a simple structure ensuring optimal tightness and low operational torque .
- Offers both reduced bore and full bore types to minimize flow resistance.
- Utilizes low emission packing materials for environmental compliance.
- Designed with fire-safe, anti-static, and stem blow-out prevention mechanisms for enhanced safety.-Includes an optional locking device for secure operation.
- Available with an optional ISO 5211 top flange for straightforward actuator mounting.

Technical Parameter

- Body Material: ASTM A105, ASTM A182 F316/F304, ASTM A350 LF2
- Nominal Size: NPS 2" to 56"
- Pressure Range: Class 150 to 2500 LB
- Working Temperature: -60°C to 260°C
- Connection Method: RF (Raised Face), RTJ (Ring Type Joint), BW (Butt Weld), SW (Socket Weld)
- Inspection and Test Standards: API 598, API 6D
- Design Standards: API 6D, API 608, ASME B16.34, ISO 17292
- Connection Ends: ASME B16.5 (Flanges), ASME B16.25 (Butt welding Ends), ASME B16.11 (Socket Weld and Threaded Fittings)-Face to Face Dimensions: ASME B16.10, API 6D
- Fire Safety Standards: API 607, API 6FA



Three-Way Ball Valve

Design Features

- Three-way ball valves are categorized into L-type and T-type configurations.
- Available in both full bore and reduced bore options.
- Incorporates a fire-safe design for enhanced safety.
- Features two-way sealing for reliable operation.
- Designed with anti-blowout stem and anti-static features.
- Utilizes a dual valve combination design for versatile application.
- Offers a flexible switch mechanism, ensuring ease of operation and extended service life.

Technical Parameter

- Body Material: ASTM A105, ASTM A182 F316, ASTM A350 LF2
- Nominal Size: NPS 1/2" to 8"
- Pressure Rating: Class 150 to 600 LB
- Working Temperature: -40°C to 500°C
- Connection Method: RF (Raised Face), RTJ (Ring Type Joint), BW (Butt Weld), SW (Socket Weld)-Design Standards: API 6D, API 608, ASME B16.34, ISO 17292
- Inspection and Test: API 598, API 6D
- Face to Face: ASME B16.10, API 6D
- Connection Ends: ASME B16.5 (Flanges), ASME B16.25 (Buttwelding Ends), ASME B16.11 (Socket Weld and Threaded)



Fully Welded Ball Valve

Design Features

- Features a simple structure that ensures optimal tightness and requires minimal operational torque.
- Boasts a fully-welded body and full bore, providing minimal (effectively zero) flow resistance.
- Equipped with an emergency sealant injection system for enhanced sealing capabilities.
- Incorporates a cavity pressure self-relief mechanism to safely manage overpressure.
- Utilizes low emission packing materials to minimize environmental impact.
- Designed with fire-safe, anti-static, and stem blow-out prevention features for increased operational safety.
- Offers seat functionality with Double Block and Bleed (DBB), Double Isolation and Bleed (DIB-1), and Double Isolation and Bleed (DIB-2) options.
- Available with an optional extended bonnet for high temperature or cryogenic applications.

Technical Parameter

- Body Material: ASTM A105, ASTM A182 F316, ASTM A350 LF2
- Nominal Size: NPS 2" to 60"
- Pressure Range: Class 150 to 2500 LB
- Working Temperature: -46°C to 200°C
- Connection Method: RF, RTJ, BW
- Design Standards: API 6D, API 608, ASME B16.34, ISO 17292
- Inspection and Test: API 598, API 6D
- Connection Ends: ASME B16.5 (Flanged), ASME B16.25 (Buttwelding Ends), ASME B16.11 (Socket Weld and Threaded)
- Face to Face: ASME B16.10, API 6D





HANGZHOU KAIWEI VALVE GROUP CO.,LTD.

Add:12th Floor, Building 3, Shuangcheng International Mansion, Binjiang District, Hangzhou City, Zhejiang Province

Tel:+86-571-88950660 | +86-13695708807

E-mail:christina@kaiweivalve.com

<http://kaiweivalve.com>