

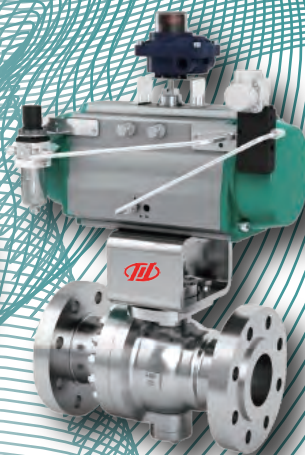
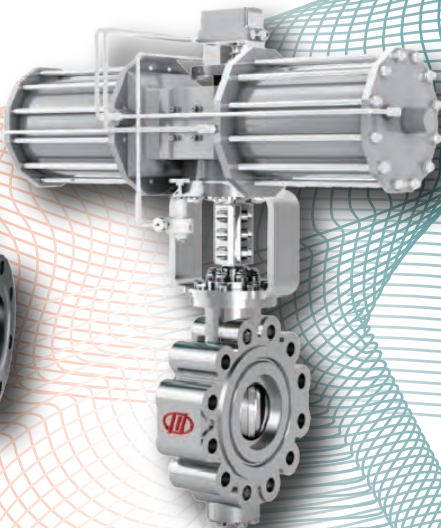
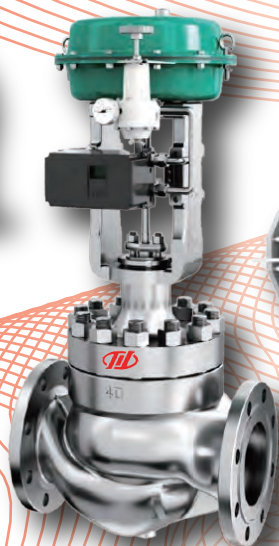


華盛機械工程有限公司
HUA SHENG MECHANICAL ENGINEERING CO., LTD.



重慶川儀自動化股份有限公司
CHONGQING CHUANYI AUTOMATION CO., LTD.

— 全方位維修服務與產品整合 —



TD150028

— 專業 · 可靠 · 品質 —

官方網站



官方LINE@



專業維修技術服務 閥門與配件選用諮詢



重慶川儀自動化股份有限公司

CHONGQING CHUANYI AUTOMATION CO., LTD.

重慶川儀調節閥有限公司隸屬重慶川儀自動化股份有限公司，是重慶市高新技術企業，於1969年成立，具有57年以上的控制閥產品開發及製造經驗。2001年成為中國國內第一家智能定位器研發製造單位，後續實現核級限位開關國產化，現有21條智能生產線（涵蓋鑄造、精密加工、調節閥組裝檢測、智能定位器製造、球閥裝配及執行器裝配等多個製造單元）。全面實施信息化管理，從訂貨-技術設計-計畫生產，全業務信息管理渠道，提高企業信息傳遞的準確性和即時性，超管理水平為客戶提供高品質服務。

CHONGQING CHUANYI AUTOMATION CO., LTD.

The company is a recognized high-tech enterprise in Chongqing, specializing in the engineering, manufacturing, and testing of control valves, with over 57 years of proven experience in control valve technology. In 2001, the company became the first domestic manufacturer in China to independently develop and mass-produce intelligent valve positioners, and subsequently completed the localization and application of nuclear-grade limit switches. The company operates 14 specialized production lines covering casting, precision machining, assembly, and performance testing, including:

- 2 intelligent casting production lines
- 5 intelligent component machining lines
- 4 control valve assembly and performance testing lines
- 1 intelligent valve positioner production line
- 1 intelligent ball valve assembly line
- 1 intelligent actuator assembly line

The company has fully implemented an integrated digital management system, enabling end-to-end process control from order management and engineering design to production planning and execution.

This system ensures process traceability, real-time data accuracy, and consistent product quality, meeting the requirements of high-standard industrial applications and project-based specifications.

公司介紹
Introduction

57+高質量發展之路



致力於流程工業的測量與控制，
已成為領先的中國控制閥生產基地。

國家技術創新示範企業、
全國首批創新型企業、
高新技術企業，A股上市公司。

57年經驗薪火相傳，
已成為中國控制閥的引領者！

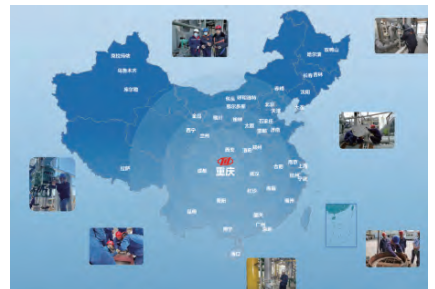


員工600+

研發工程師200人+



完善的售後服務



完整的閥門認證



- GB/T19001-2016 idt ISO 9001:2015 質量管理體系
- GB/T24001-2016 idt ISO 14001:2015 環境管理體系
- GB/T45001-2020 / ISO 45001:2018 職業健康安全體系
- 特種設備製造(壓力管道元件)生產許可
- SIL 安全體系
- TA-LUFT 微滲漏認證
- ISO 15848-1 (AH/BH/CH) 微滲漏認證
- API 607 / API 6FA 防火認證
- API 6D 管線球閥認證
- CU-TR (EAC) 海關聯盟
- CE-PED 歐盟

20000+

客戶服務



2024 銷售額

23億+

1969

中國控制閥奠基者
Founder of Chinese Control Valves

主要研發製造單雙座閥



1993

先進技術推廣者
Promoter of Advanced Technology
for Chinese Control Valves

引進消化吸收山武 CV3000
系列產品設計製造技術



2005

新市場開拓者
Pioneer in the Industry of Opening New
Markets in China

多級降壓調節閥、黑水閥、
迷宮式閥、閥門智能定位
器等產品成功替代進口



2017

智慧製造引領者
Domestic Leader in Smart Manufacturing

川儀在數字化轉型，特別
是在智慧裝備、智慧設計
平台、智慧管理平台以及
高端替代進口新品上均取
得重大突破。





歷史累積銷售 **120**萬台+

智能化設備



專業檢測儀器



試驗中心

低溫試驗



高溫類試驗

防火試驗



高溫試驗



熱態性能試驗



20年+

CAE仿真技術 應用經驗

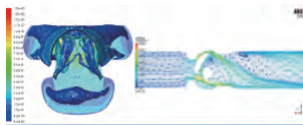
研發平台 R&D Platform

全行業內自主擁有最全CAE仿真分析模塊
涵蓋基本所有實際閥門工况參數



高精度調節
25:1 - 200:1

流量特性曲線模擬—高精度控制



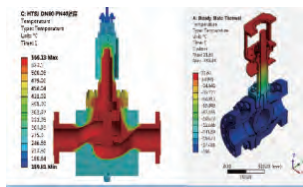
高抗沖蝕、氣蝕
液固、氣固兩相

兩相流模擬—閃蒸、空化



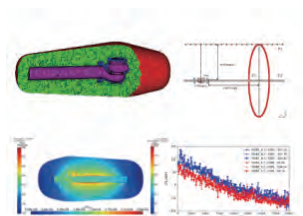
溫度控制
霧化、減溫

霧化模擬—減溫減壓



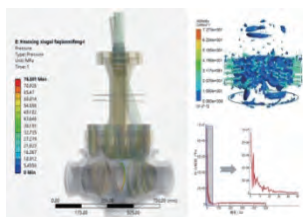
溫度傳熱
-196°C-1000°C

熱流固模擬—高溫&低溫



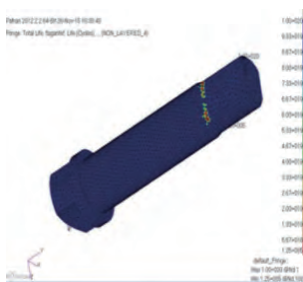
低噪音
高壓差下<85dBA

聲輻射模擬—低噪音



抗震動
流激震動、抗震

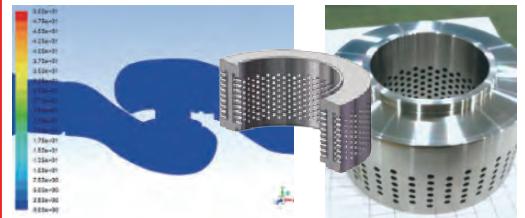
流激共振模擬—抗震動



疲勞
常溫-550°C
-196°C-常溫

疲勞模擬—溫度交變

研發應用 R&D Application



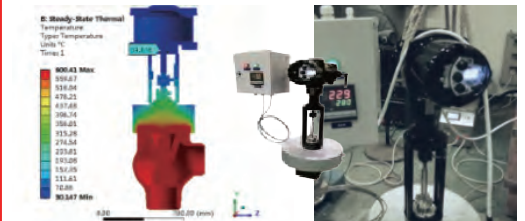
高參數閥



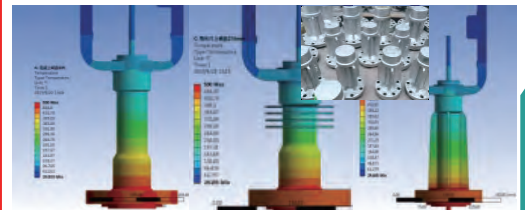
大口徑閥



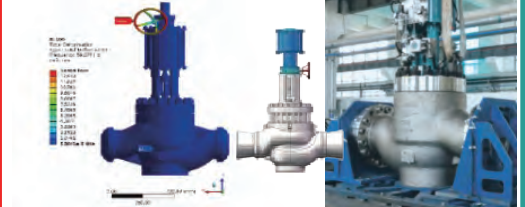
四偏心蝶閥



高溫熔鹽閥



高溫上蓋閥



核電閥門



超低溫閥





控制閥系列

Control Valve Series

5大類 | 146 各品項

HTS / HCP / HKG自力式 / 特殊調節閥

重慶川儀調節閥有限公司（SICCV）直通控制閥系列，擁有超過50年研發與製造經驗，產品具備高控制精度、性能穩定與品質可靠等優勢。可依不同介質之壓力、溫度及物理化學特性，提供多樣化系列產品，廣泛應用於石油、化工、製藥、造紙、冶金及發電等產業，滿足各類工況之精準控制需求。

The straight-through control valve series of CHONGQING CHUANYI AUTOMATION CO., LTD. (SICCV) is backed by over 50 years of research, development, and manufacturing experience.

The products feature high control accuracy, stable performance, and reliable quality. Designed to meet various service conditions, the valves are available in multiple series based on different pressures, temperatures, and physicochemical properties of the media. They are widely applied in petroleum, chemical, pharmaceutical, paper-making, metallurgy, and power generation industries, ensuring precise and reliable process control.

● 控制精準度高

閥內件設計採用CFD流體動力學軟體模擬，通過專業分析計算，並通過試驗驗證達到工藝要求。其流量特性滿足國際標準IEC 60534的要求

● 產品規格全

產品涵蓋範圍廣，覆蓋高、中、低系列，還擁有專為特殊工況設計的系列產品。產品通用性強，可通過直接更換不同閥內件類型，以滿足不同工況及控制性能的要求。

● High control precision

The design of valve trim relies on CFD hydrodynamics software, and its process requirements can be achieved by means of analysis, calculation and testing. Its flow characteristics meet IEC 60534 standard.

● Complete specifications

The products cover the high, medium and low pressure series valves, and special purpose valves. High versatility can realize the replacement of valve trims to adapt to different service conditions.



閥門的結構特點 Structural Features
通用性強，覆蓋範圍廣，Cv值從 0.005~4200，幾乎覆蓋所有工況。

High versatility and wide application, with Cv values ranging from 0.005 to 4200.

閥體可通用。根據不同的需要，閥芯選用不同的型式，可採用柱塞式單座結構、籠式套筒結構、單座+套筒結構、多孔式套筒結構等。

The same valve body with various trims can meet the different service conditions, such as post-guided single-ported type, cage-guided type, combination of cage-guided and single-ported type, multi-hole cage-guided type etc.

上閥蓋可加裝波紋管密封結構，以滿足有毒、貴重等特殊要求流體的密封。

The bonnet with bellows is especially for the sealing of toxic and valuable fluid.

針對壓差較高、溫度較高場合以及煉化出口解析上閥蓋可選擇防轉結構，提高穩定性。

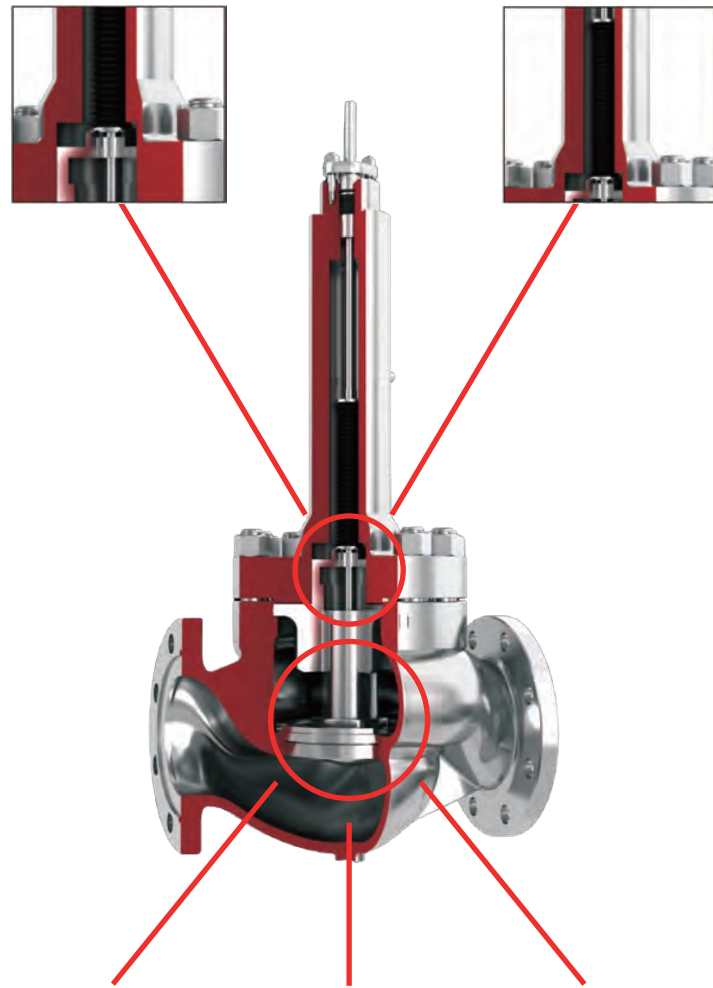
The anti-rotating design of the bonnet is used for the service conditions with high pressure drops and high temperature, and especially for the oil refining.

籠式閥根據不同的溫度，採用不同的密封技術，產品可靠性高。溫度 $\leq 70^{\circ}\text{C}$ 時選用彈簧蓄能密封圈；溫度 $> 270^{\circ}\text{C}$ 時選用Inconel金屬C形密封環。

The cage-guided control valve has high reliability for the different sealing design under the temperature. When $T \leq 270^{\circ}\text{C}$, spring-energized seals are used; When $T > 270^{\circ}\text{C}$, Inconel C-ring is used.

多種特殊材料選擇如哈式合金、蒙乃爾合金、鈦、因科鎳合金、雙相鋼等。

Various materials such as Hastelloy, Monel, Titanium, Inconel, Duplex stainless steel, etc.



單座+套筒結構
Combination of single-ported and cage-guided



籠式套筒結構
Cage-guided type



多孔式套筒結構
Multi-hole cage-guided

易於維護，頂裝式結構使得維修更方便，便於在線維修。填料函的設計可在不用卸壓的情況下更換執行機構。閥內件互換性強，可容易地改變流量特性及流通能力，減少備品備件儲備，節約備件投資。

Convenient maintenance. Top-mounted type structure offers the ease of on-line maintenance. The design of packing box is for replacing the actuator without pressure relief. Interchangeability of valve trim can offer the ease of changing the flow characteristics and capacity so as to reduce the storage and cost of spare parts.



高壓差系列調節閥

High Pressure Drop Control Valve

包含直通閥 HKG-10、HKG-20、HKG-30、HP4 系列直通閥和角閥等，是專為高壓差惡劣工況全新設計開發的新一代產品。

該系列產品採用多級降壓原理，根據不同的壓差、介質選擇不同的降壓型式，將一個較高的壓差分解為若干個較小的壓差，減弱流速過高引起的沖蝕和振動問題。該系列閥門能有效防止液體介質的閃蒸空化，降低氣體介質的振動與噪音。

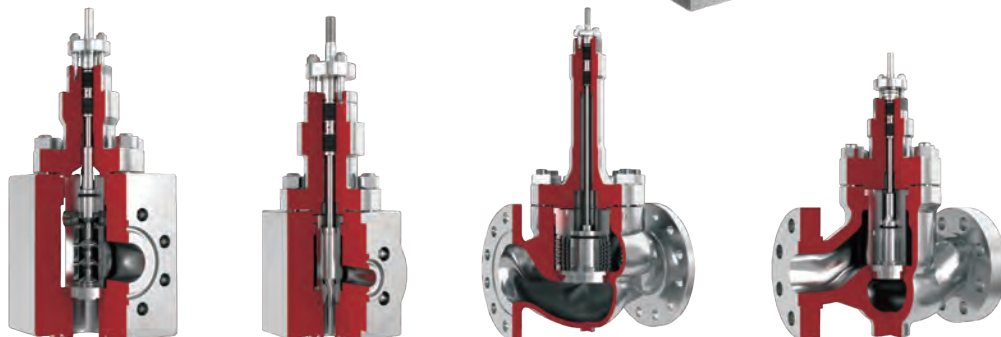
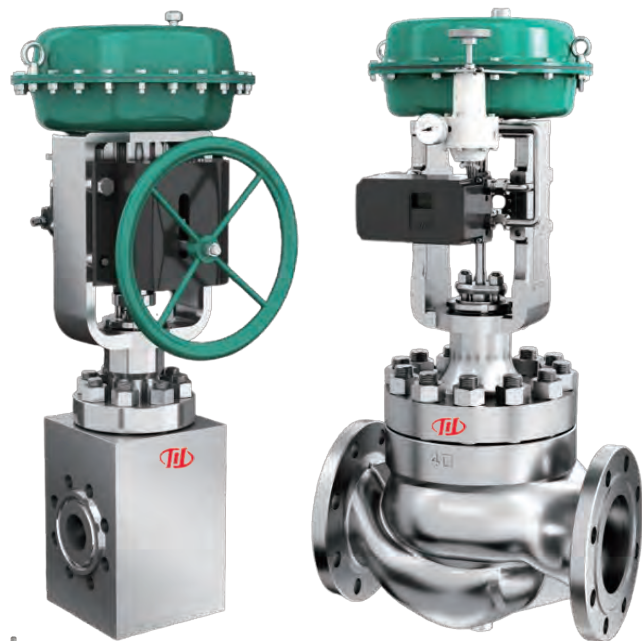
適用溫度範圍廣，可廣泛應用於石油、化工、輕工、製藥、造紙、冶金、發電等輸送管道內介質的調節。

It includes globe type valves (HKG-10, HKG-20, HKG-30, HP4) and angle type valves, which are specially developed for severe high pressure drop conditions.

This series adopts different pressure reduction types according to various pressure drops and media under the multi-stage pressure reduction principle. The high pressure drop is decomposed into several smaller pressure drops to reduce erosion and vibration caused by high flow velocity.

This series of valves can effectively prevent flashing and cavitation of liquid media and reduce vibration and noise of gas media. It has a wide applicable temperature range and is widely used in petroleum, chemical, light industry, pharmaceutical, paper-making, metallurgy, and power generation industries for pipeline flow control.

通用壓力：Class150~Class4500
通用尺寸：DN15 ~ DN600
溫度範圍：-196°C~550°C
洩漏等級：ANSI Class IV、V
Pressure rating：Class150~Class4500
Nominal size：DN15 ~ DN600
Temperature range：-196°C~550°C
Leakage level：ANSI Class IV, V



填料採用進口特種石墨系列填料，能夠滿足洩漏要求低於100ppm的場合，摩擦力小，特別適用於高溫高壓介質。

Imported special graphite packing can be used in the service conditions which requires the emission lower than 100ppm, and this packing with small friction is especially suitable for high-pressure and high-temperature media.

根據不同的壓差、介質選用不同的降壓結構。

多層套筒結構(HKG-10/HP4)主要用於壓差 $\leq 7\text{MPa}$ 較乾淨介質；

迷宮式結構主要用於壓差 $> 7\text{MPa}$ 較乾淨介質(HKG-20)；

多段式閥芯結構主要用於含顆粒介質的高壓差工況(HKG-30)。

The different pressure reduction designs are for the different pressure drops and fluids.

Multi-cage type (HKG-10/HP4) is used for the control of relatively clean fluids.

($\Delta P \leq 7\text{MPa}$); Labyrinth type is used for the control of relatively clean fluid

($\Delta P > 7\text{MPa}$, HKG-20); Multi-section type is used for the control of the fluid with particles (HKG-30).

根據不同的溫度，採用不同的密封技術，因此產品可靠性高。

溫度 $\leq 270^\circ\text{C}$ 時選用彈簧蓄能密封圈；溫度 $> 270^\circ\text{C}$ 時選用Inconel金屬C形密封環。

This series of products has high reliability for the different sealing design under various temperatures. When $T \leq 270^\circ\text{C}$, spring-energized seal is used; When $T > 270^\circ\text{C}$, Inconel C-ring is used.

多種材料選擇如哈氏合金、蒙乃爾合金、鈦、因科鎳合金、雙相鋼等。

Various material selections such as Hastelloy, Monel, Titanium, Inconel, Duplex stainless steel, etc.

易於維護。頂裝式結構使得維修更方便，便於線上維修。

填料函的設計可在不卸壓的情況下更換執行機構。

On-line maintenance. The packing box is designed for replacing actuator without pressure relief.

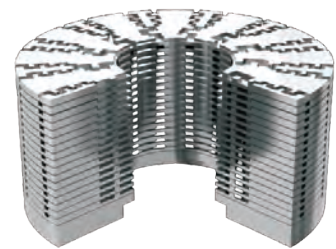
閥內件互換性強，可容易地改變流量特性及流通能力，

減少備品備件儲備，節約備件投資。

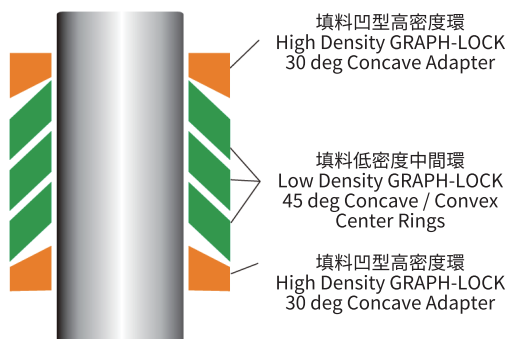
Interchangeability of valve trim can offer the ease of changing the flow characteristics and capacity so as to reduce the storage and cost of spare parts.



HKG-20000 迷宮式高壓調節閥



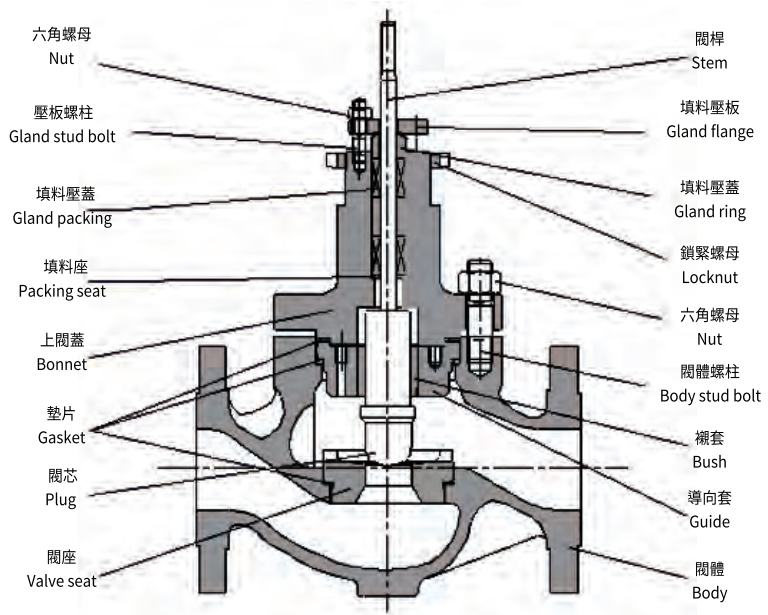
迷宮式結構
Labyrinth type



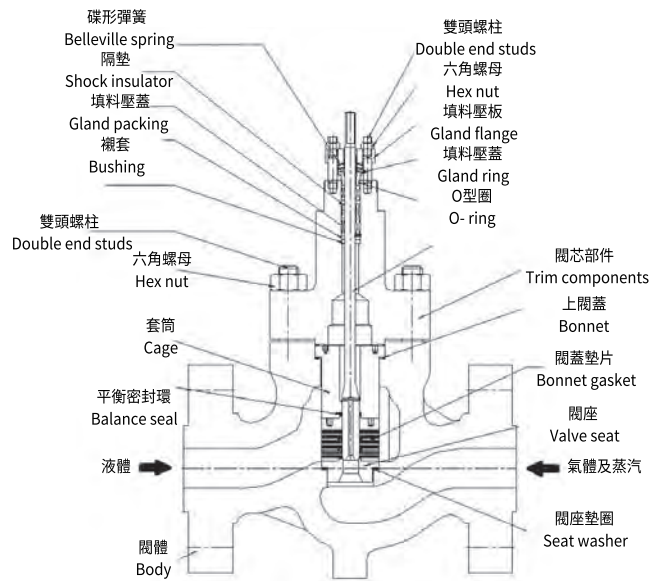
多段式閥芯結構
Multi-section type



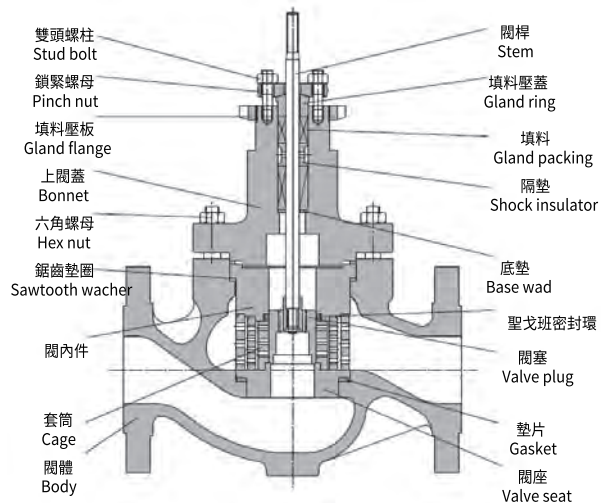
HTS單座調節閥內部結構



HKE迷宮籠式調節閥內部結構



HKG多級降壓調節閥內部結構





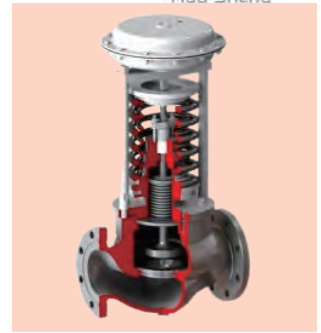
HTS單座調節閥系列
HTS 單座調節閥



HCP套筒調節閥系列
HCP 套筒調節閥



HKG多級降壓調節閥系列
HKG-30 多級降壓抗噪聲調節閥



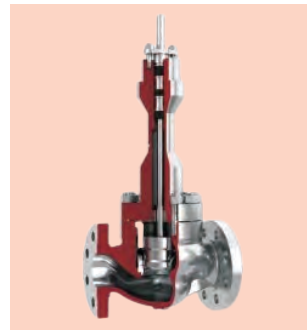
自力式調節閥系列
自力式調節閥



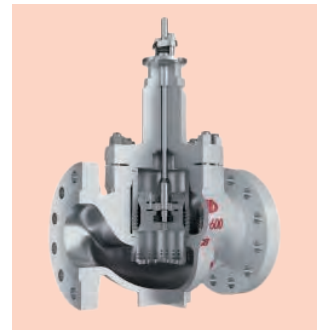
特殊調節閥系列
HTS-1000I 波紋管快換式單座調節閥



特殊調節閥系列
HTS-1010 全金屬快換式單座調節閥



特殊調節閥系列
HCP-50000 免氣式調節閥



特殊調節閥系列
HKG-20000 迷宮式高壓差調節閥



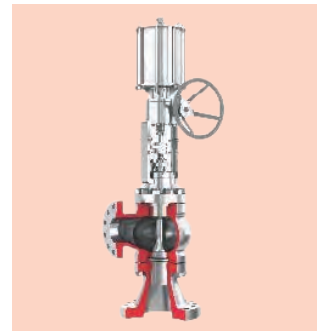
特殊調節閥系列
H300-100 AWT型減減壓裝置



特殊調節閥系列
HYA(B) 籠閥



特殊調節閥系列
HM(D)T(H) 三通(分)流調節閥



特殊調節閥系列
HVH 帶水閥



特殊調節閥系列
H200 高溫離閥



特殊調節閥系列
H400 程控閥



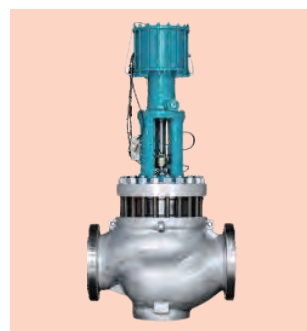
特殊調節閥系列
HKG-30100 單級式高壓差調節閥



特殊調節閥系列
H100 低溫調節閥



特殊調節閥系列
給水最小流量調節閥



特殊調節閥系列
凝結水調節閥



特殊調節閥系列
汽機旁路調節閥



蝶閥系列

Butterfly Valve Series

6大類 | 34 各品項

VBJG-20 / VBJG-30 / VBJG-40 / VBJG-60 /
VBM+VBSF / 特殊蝶閥

重慶川儀調節閥有限公司所生產的蝶閥系列產品擁有獨特的設計，先進科學的生產加工工藝已有二十幾年的研發歷史。性價比高，而且能針對各種複雜、惡劣環境提供特殊設計方案，在整個閥門領域具有很大的市場競爭力。CHONGQING CHUANYI AUTOMATION CO., LTD.(SICCV) has unique design, advanced processing and more than 20 years of experience in exploring and manufacturing butterfly valves. It can provide solutions for various complex and severe service conditions.

- 結構設計合理，安全性能可靠，
安裝尺寸小，適用於大口徑的閥門。
- 開關迅速，90°往返回轉驅動力矩小，
適用於截斷、接通、調節管路中的介質，
具有良好的流體控制特性和關閉密封性能。
- 閥座和密封面的耐磨、耐沖蝕强度高，
閥門使用壽命長。
- Reasonable design, reliable safety,
small mounting dimensions, wide size range.
- Quick on-off, 90° rotation and small driving
torque which are applied to cut off and regulate
the fluid with good performance and sealing.
- The valve seat and sealing surface have high wear
resistance and erosion resistance,
resulting in a long service life of the valve.



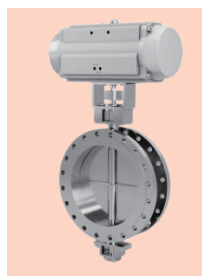
三偏心蝶閥系列
VBJG-30 三偏心蝶閥



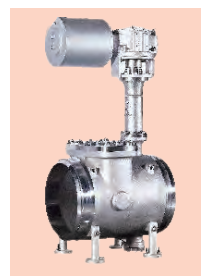
雙偏心蝶閥系列
VBJG-20 雙偏心蝶閥



四偏心蝶閥系列
VBJG-40 四偏心蝶閥



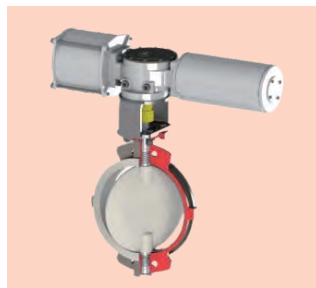
特殊蝶閥系列
VBJG-60 低壓型低負載蝶閥



特殊蝶閥系列
VB100 低溫蝶閥



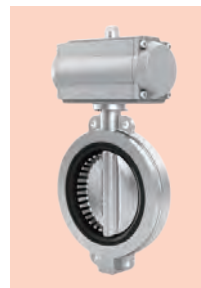
特殊蝶閥系列
VB200 高溫蝶閥



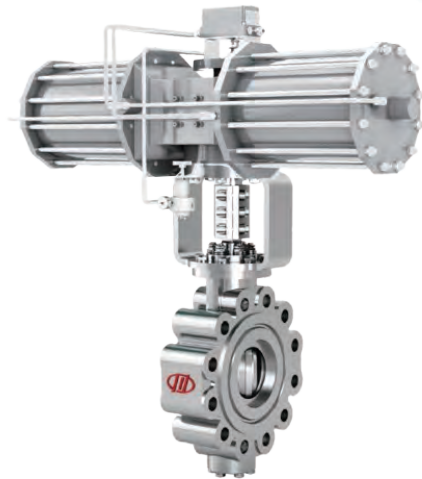
特殊蝶閥系列
VBSF 襯氟/塑蝶閥



特殊蝶閥系列
VBM 封閉蝶閥



特殊蝶閥系列
VBM-C 襯氟封閉蝶閥



蝶閥系列產品主要有：VBJG-300三偏心蝶閥、VBJG-400四偏心蝶閥、VB100超低溫蝶閥、VBJG-600低負載蝶閥、VBJG-200雙偏心蝶閥、VBSF襯塑蝶閥、VBM襯膠蝶閥和VBM-C齒形襯膠蝶閥。
Our butterfly valve series mainly include VBJG-300 triple-offset, VBJG-400 quadruple-offset, VB100 ultra-low temperature, VBJG-600 low-load, VBJG-200 double-offset, VBSF plastic-lined, VBM rubber-lined, and VBM-C toothed rubber-lined butterfly valves.



■ 結構設計合理、安全性能可靠、安裝尺寸小，適用於大口徑的閥門。

Reasonable design, reliable safety, small mounting dimensions, wide size range.

■ 閥板的流線型設計，使流體阻力損失小，是一種節能型產品。
The design of streamlined disk is energy saving with the feature of low resistance.

■ 開關迅速，90°往返回轉，驅動力矩小，適用於截斷、接通、調節管路中的介質，具有良好的流體控制特性和關閉密封性能。
Quick on-off, 90° rotation and small driving torque, suitable for cut-off and regulation of fluids, with good control performance and sealing.

■ 根據不同的工況，密封結構和材料可以有各種選擇組合形式，可實現良好的密封。
All kinds of combinations of sealing structures and materials can be used to achieve good sealing performance under different service conditions.

■ 連接形式多樣：法蘭式、對夾式、焊接式和支耳式。

Various end connections: Flanged, Wafer, Welded, and Lug.

■ 操作方便靈活，驅動方式有電動、氣動和液動等多種方式可選擇。

Simple operation, with options of electric, pneumatic, hydraulic drives.

■ 閥座和密封面的耐磨、耐沖蝕强度高，閥門使用壽命長。
High erosion and abrasion resistance of seat ring and sealing surface ensures long service life.

■ 拆卸簡單快捷，密封圈具有互換性和可更換性，維修簡單方便。

Simple assembly and disassembly. The interchangeability and removability of seal ring make maintenance easy.

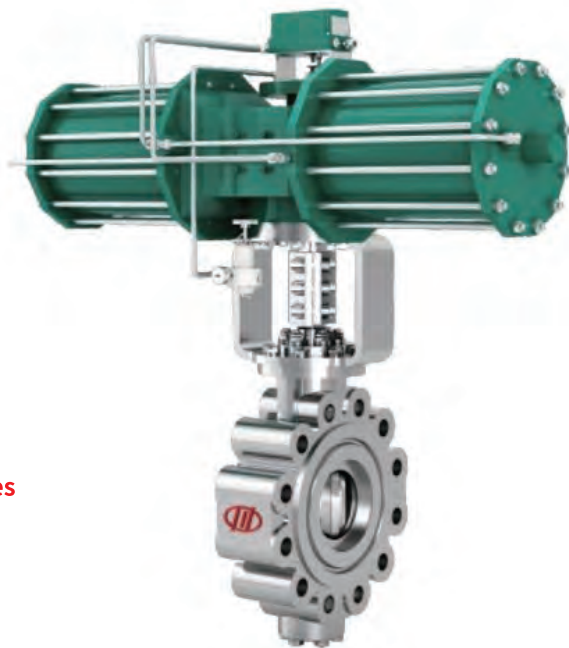


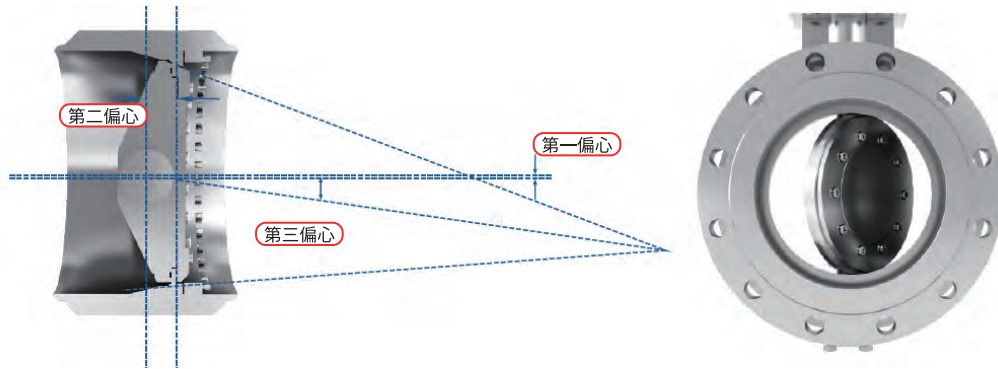
三偏心硬密封蝶閥

Triple-offset Hard Sealing Butterfly Valve

- 全金屬密封對：採用全金屬結構，本質防火防靜電，密封面不含石棉、石墨等軟質材料，不會造成對介質的污染，密封面均勻可靠接觸，密封性能優越，同時堆焊硬質合金層，耐磨、耐腐蝕，使用壽命長。
All-metal sealing pair: The sealing pair is of an all-metal structure. It is intrinsically fireproof and anti-static. The surfacing of the sealing face does not contain any soft materials such as asbestos and graphite. Therefore, it will not cause pollution to the medium. The sealing face is in uniform and reliable contact and provides excellent sealing performance. The sealing surface is also hard-alloy overlaid and has wear resistance, corrosion resistance, and a long service life.
- 三偏心結構：全金屬蝶閥採用三偏心結構，適用於高溫高壓等複雜工況，並要求嚴密切斷的場合，閥門開閉過程無摩擦，驅動力矩小，扭力密封，介質作用力越大密封性能越好。
Triple-offset structure: The all-metal butterfly valves are of a triple-offset structure. They are suitable for applications requiring tight cutoff in complex operating conditions such as high temperature and high pressure. There is no friction during valve opening and closing, so the opening torque is small. Torque sealing design is adopted, The greater the medium force is, the better the sealing performance will be.

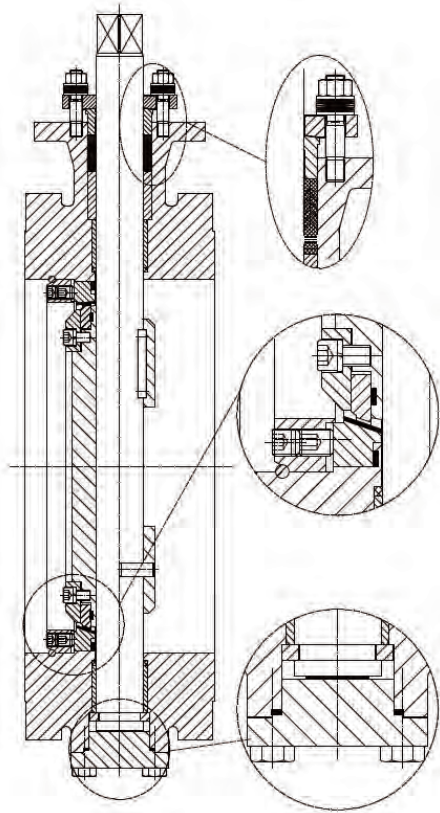
- - 通用壓力：Class 150~1500
 - 通用尺寸：DN80~DN1200
 - 溫度範圍：-100°C~700°C
 - 洩漏等級：雙向API598
 - 動作開關壽命：**10萬次以上**
 - Pressure rating: Class150~ 1500
 - Nominal size: DN80~DN1200
 - Temperature range: -100°C ~ 700°C
 - Leakage level: Bidirectional sealing, API 598
 - Action switch life: **More than 100,000 cycles**
-





採用三偏心獨立鋼座結構
Triple-offset independent valve seat structure is adopted

全金屬密封
All-metal Sealing Pair



全金屬結構示意圖
Schematic Diagram of All-metal Structure

閥桿採用精密拋光，粗糙度保證 0.2。
The stem is subjected to Honing vibration, and the roughness is guaranteed to be 0.2.

碟簧加載補償系統，提供填料補償力。
Disc spring-loaded compensation system is used to provide compensation force for the packing.

V型組合填料密封，有效防止外漏同時減少填料和閥桿間的摩擦係數。
The V-shaped combined packing seal can effectively prevent leakage and reduce the friction coefficient between packing and stem.

台階式全金屬密封圈，表面堆焊合金硬化處理。
Stepped all-metal sealing ring is used and subjected to surfacing with hard alloy.

防塵結構，防止結焦結垢、卡死，方便維修。
A dust-proof structure is adopted to prevent coking scaling, and jamming, and it's easy to maintain.

快換獨立式閥座，拆卸方便，表面堆焊合金硬化。
Independent quick-change seat is adopted. It's easy to disassemble and subjected to surfacing with hard alloy.

螺釘組合鎖緊，防轉防鬆動。
Screws are subjected to combined locking to prevent coking and scaling

採用獨特的整體限位圈結構，強度更高。
A unique integral limit ring structure is adopted to provide higher strength.

軸封結構，防塵防卡死。
The shaft seal structure is dust-proof and anti-jamming.

閥桿防飛出結構。
The stem is of an anti-blowout structure.



四偏心高性能硬密封蝶閥

Quadruple-offset High-performance Hard Sealing Butterfly Valve

VBVG-400高性能硬密封蝶閥在三偏心的基礎上，增加密封截面的距離偏心，橢圓密封截面變為正圓，實現了閥板密封圈與閥座密封面之間在關閉之前完全無摩擦的運動，快速實現關閉自動吻合密封動作，實現真正意義上的扭力密封。該產品體積小，重量輕，不僅具備三偏心的防衝出、防卡死、耐高溫高壓、耐腐蝕特性，更突出地表現出低扭矩、雙向密封、流通能力強，本質防火四大特性。滿足ISO 15848、API 607、雙向API598標準要求。在高溫、超低溫和交變工況等多種極端工況嚴密切斷和精準調節。

A distance offset of the sealing section is added on the basis of the triple-offset design for the VBVG-400 high-performance metal seated butterfly valve. The elliptical sealing section becomes a perfect circle, realizing completely friction-free movement between the disc sealing ring and the seat sealing surface before closing. This enables quick automatic sealing engagement and achieves true torque sealing. The valve is compact and lightweight. It not only features anti-blowout, anti-jamming, high temperature and high pressure resistance, and corrosion resistance of the triple-offset design, but also provides low torque, bi-directional sealing, strong flow capacity, and intrinsic fire-safe performance.

It meets the requirements of ISO 15848, API 607, and bi-directional API 598 standards. It ensures tight shutoff and precise control under extreme operating conditions such as high temperature, ultra-low temperature, and alternating service conditions.

通用壓力：PN1.0、1.6、2.5、4.0MPa；
Class150~300

通用尺寸：DN80~DN600

溫度範圍：-100°C~550°C

洩漏等級：雙向API598

動作開關壽命：10萬次以上

額定行程：60°、90°

Pressure rating：PN1.0、1.6、2.5、4.0MPa；
Class150~300

Nominal size：DN80~DN600

Temperature range：-100°C~550°C Leakage
level：Bidirectional API598 Action switch

life：More than 100,000 times

Rated rotation：60°、90°



主要性能特點/Functions and Features

雙向密封性能優越

驅動力矩小

防火結構設計

閥板與密封環之間零摩擦

防閥桿飛出結構

止推環防閥桿拉死結構

閥門使用壽命長

密封件易拆卸、更換

流通能力強

High-performance dual sealing

Low driving torque

Fire-safe design

Zero friction between disk and seal ring

Anti-blowout design

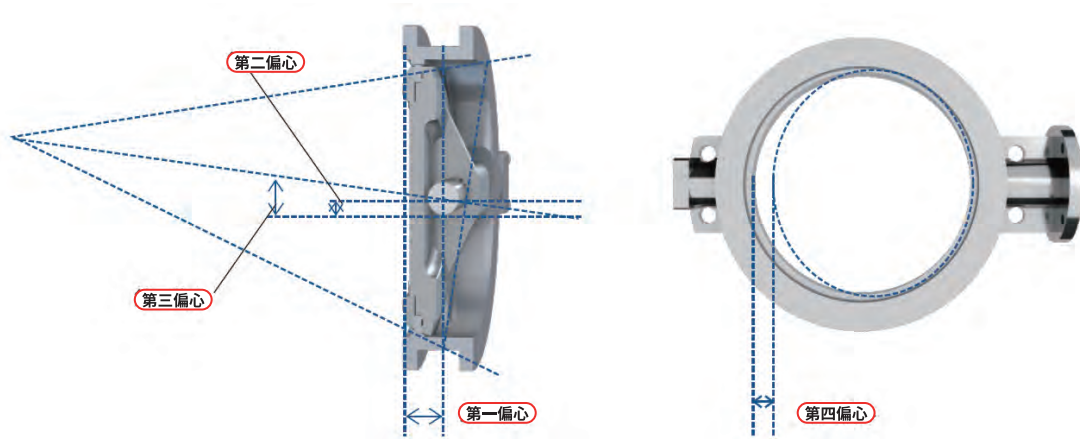
Thrust ring design preventing stem seizure

Long service life

Easy removal and replacement of seals

Strong flow capacity

四偏心的偏心原理：Principle of Four Eccentric Design



offset 1 (第一偏心)：密封副的旋轉中心相對於管道，形成軸向距離偏心。

offset 2 (第二偏心)：密封副的旋轉中心相對於管道。形成徑向距離偏心。

offset 3 (第三偏心)：密封副與管道中心形成一個角度偏心。

offset 4 (第四偏心)：密封截面由橢圓變成正圓的距離偏心。

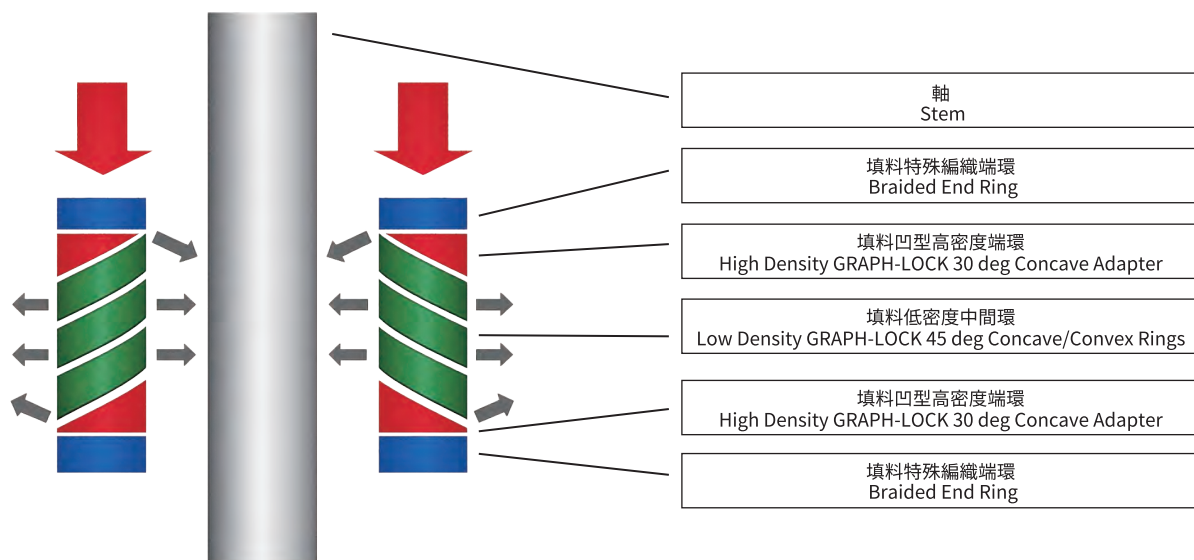
offset 1：axial distance offset formed between the center of rotation of the sealing pair and the pipe;

offset 2：radial distance offset formed between the center of rotation of the sealing pair and the pipe;

offset 3：angular offset formed between the sealing pair and the center of the pipe;

offset 4：distance offset formed when the elliptical sealing section becomes a perfect circle.

特殊填料結構及受力分析圖 (Special Packing and Stress Analysis)





VB100低溫蝶閥

VB100 Cryogenic Butterfly Valve

VB100低溫蝶閥是用於乙烯、丙烯、液化天然氣及液氮等低溫及超低溫介質工況的閥門。其密封性能優越、操作力矩小、允許壓差大、可靠性高、使用壽命長；且具備防衝出、防卡死、耐磨、耐腐蝕、防火防靜電，在線維修等功能。

低溫蝶閥採用三偏心硬密封結構，使密封圈與閥座實現瞬間開啟和關閉，閥門關閉時密封面上壓力角大於摩擦角，使閥板開啟阻力極低，實現關閉自動吻合密封動作。閥門洩漏等級滿足API 598和BS6364標準要求，閥門外洩漏滿足TA-Luft和ISO15848-1工業閥門微洩漏標準要求。

VB100 Cryogenic Butterfly Valve is used for low-temperature and cryogenic media such as ethylene, propylene, liquefied natural gas, and liquid nitrogen. It features superior sealing performance, small operating torque, large allowable differential pressure, high reliability, and long service life. In addition, it provides anti-blowout, anti-jamming, wear resistance, corrosion resistance, fire-safe and anti-static performance, and on-line maintenance capability.

VB100 low-temperature butterfly valve adopts a triple-offset hard sealing structure, enabling instant opening and closing between the sealing ring and valve seat. When the valve is closed, the pressure angle on the sealing surface is greater than the friction angle, resulting in extremely low opening resistance and automatic sealing upon closure. The valve meets API 598 and BS6364 standards for leakage level, and TA-Luft and ISO 15848-1 industrial valve standards for external leakage.

●
通用壓力：PN10~PN110
Class 150~600
通用尺寸：DN150~DN1500
溫度範圍：**-196°C~200°C**
洩漏等級：符合API598/BS6364標準
Pressure rating：PN10~PN110
Class 150~600
Nominal size：DN150~DN1500
Temperature range：**-196°C~200°C**
Leakage level：API598/BS6364
●





球塞閥系列

Ball Valve Series

4大類 | 37 各品項

ZJHR / ZJHV / VFR / 其他

重慶川儀調節閥有限公司擁有 20 餘年球閥產品研發與製造經驗，產品符合 GB/T21385、API 6D 及 ASME B16.34 等國際標準，廣泛應用於油氣輸送、石油煉化、精細化工、冶金及電力等產業。
Chongqing Chuanyi Control Valve Co., Ltd. has more than 20 years of experience in the research, development, and manufacturing of ball valves. The products comply with international standards such as GB/T21385, API 6D, and ASME B16.34, and are widely used in oil and gas transmission, , petroleum refining, fine chemical, metallurgy, and power industries.

齊全的產品種類和規格

擁有 17 種球閥產品型號，涵蓋開關球閥、調節球閥、金屬密封球閥、陶瓷球閥、襯塑球閥、多通道球閥及特殊工況專用球閥。
適用壓力範圍：Class 150-2500；通徑範圍：DN15-DN900。

優異的過程控制與品質保證

配備完善的檢測設備、試驗裝置及標準化過程控制程序，對原材料化學成分與機械性能、零件尺寸精度與形位公差，以及整機強度與密封性能進行嚴格控制。
確保產品具備優良密封性、高可靠性及長使用壽命。

Complete Product Range & Specifications

17 types of ball valves: on-off, control, metal-seated, ceramic, lined, multi-port, and special-purpose.
Pressure range: Class 150-2500 | Size: DN15-DN900

Process Control & Quality Assurance

Comprehensive inspection and testing systems with standardized procedures. Strict control of materials, dimensions, and assembly tolerances, with full sealing and pressure tests. Ensures excellent sealing, high reliability, and long service life.



O型切斷球閥系列
ZJHR O型球閥

V型球閥系列
ZJHV V型球閥

偏心旋轉閥系列
VFR 偏心旋轉球閥

特殊球閥系列
T20-T30 多通道球閥

特殊球閥系列
ZJHR3110 C型球閥



特殊球閥系列
R400 高頻球閥

特殊球閥系列
R100 低溫球閥

特殊球閥系列
R700 管線球閥

特殊球閥系列
ZJHRF 耐氟/塑O型球閥

特殊球閥系列
ZJTR O型調節球閥

V型球閥

V-shaped Ball Valve

ZJHR-1 系列 O 型切斷球閥採用國內外通用標準設計，具有結構緊湊、流通能力強、密封性能好、可靠性高、防火、防靜電、防吹出、裝拆維護方便等特點，可配置氣動或電動執行機構，廣泛應用在石油、化工、冶金等自動控制系統中管道介質切斷或輸送。

The ZJHR-1 series O-shaped cut-off ball valve is designed in accordance with the general domestic and international standards. With a compact structure and large flow capacity, it has good sealing performance and high reliability, and is resistant to fire, static electricity, and blow-out. It can be assembled, disassembled, and maintained easily. In addition, it can be equipped with pneumatic or electric actuators and is widely used in automatic control systems of petroleum, chemical industry, and metallurgy to cut off or transport pipeline media.

通用壓力：Class 150~600

通用尺寸：DN25~DN600

溫度範圍：-100°C~ 500°C

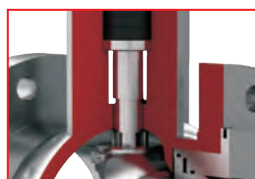
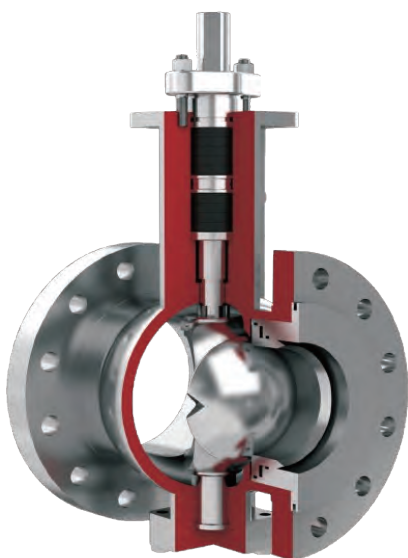
洩漏等級：ANSI IV, V

Pressure rating：Class 150~600

Nominal size：DN25~DN600

Temperature range：-100°C~ 500°C

Leakage level：ANSI IV, V





O型切斷球閥

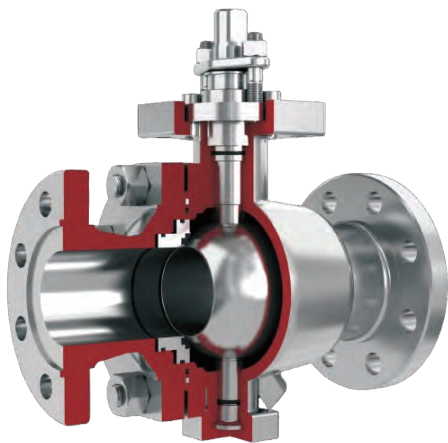
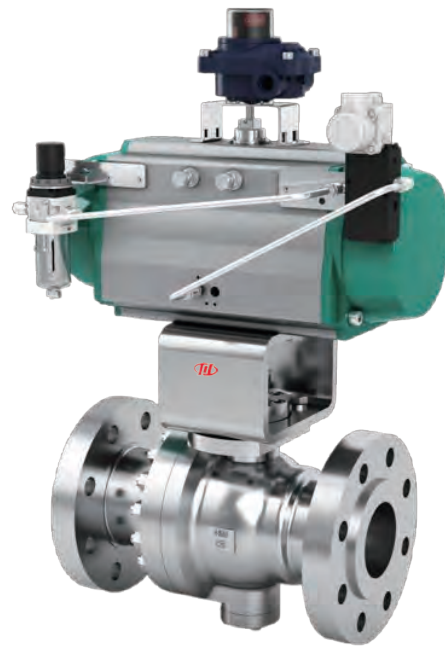
O-shaped Cut-off Ball Valve

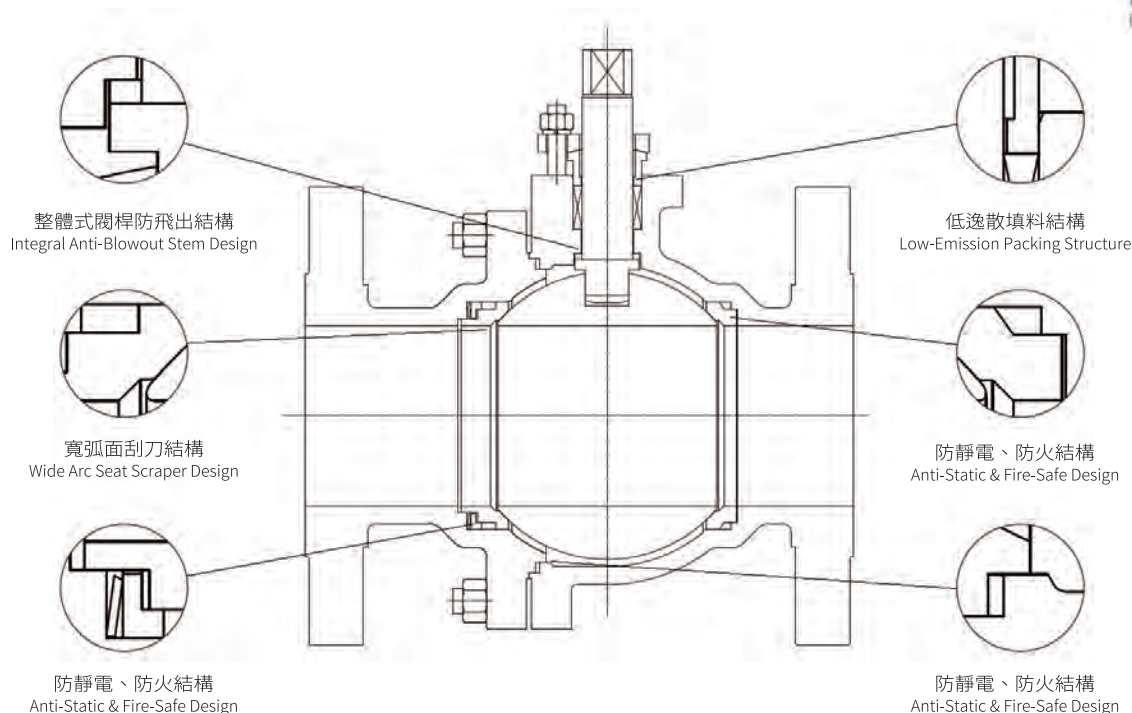
ZJHR-1 系列 O 型切斷球閥採用國內外通用標準設計，具備結構緊湊、流通能力大、密封性能優良及可靠性高等特點，並具備防火、防靜電及防吹出結構設計。產品裝拆與維護方便，可搭配氣動或電動執行機構使用，廣泛應用於石油、化工、冶金等自動控制系統中，用於管線介質之切斷或輸送控制。

The ZJHR-1 series O-shaped Cut-off Ball Valve is designed in accordance with domestic and international standards. It features excellent sealing performance, high reliability, and large flow capacity, with fire-safe, anti-static, and anti-blow-out.

It can be equipped with pneumatic or electric actuators and is widely used in automatic control systems in petroleum, chemical, and metallurgy industries.

通用壓力：Class 150~2500
通用尺寸：DN15~DN1000
溫度範圍：-100°C ~ 550°C
洩漏等級：ANSI Class IV, V; API 598
Pressure rating：Class 150~2500
Nominal size：DN15~DN1000
Temperature range：-100°C ~ 550°C
Leakage level：ANSI Class IV, V; API 598





1. 閥門具有多種結構形式，可選用軟密封、硬密封、浮動式、固定式、DBB、DIB、主副體式、三片式、法蘭式、對焊端、保溫夾套等。
The valve has different types of structures, including soft sealing, hard sealing, floating type, fixed type, DBB, DIB, main and auxiliary body type, three-piece type, flange type, butt welding end and thermal insulation jacket.
2. 整體式閥桿防飛出結構，可防止閥桿受閥內壓力飛出，避免意外傷害。
The integral anti-blowout structure of the stem can prevent it from flying out under the pressure in the valve and avoid accidental injury.
3. 防靜電、防火結構，可實現火災情況下閥門密封功能，滿足 API 607 或 API 6FA 耐火試驗要求。
The anti-static and fireproof structure enables the valves to be sealed in case of fire, meeting the requirements of fire resistance test of API 607 or API 6FA.
4. 固定球中腔洩壓結構，可實現閥門中腔超壓時及時泄壓，避免引起外漏或安全事故。
The pressure-relief structure of the central cavity in the fixed ball enables timely pressure relief in case of overpressure in the middle cavity to prevent external leakage or safety accidents.

5. 低逸散填料結構，杜絕介質外漏，達到閥門可靠密封要求。
The low-emission packing structure prevents media leakage and ensures reliable sealing performance of the valve.
6. 防塵防堵結構，可防止彈簧被介質阻塞而失效，避免閥門卡頓卡死。
The dust-proof and anti-clogging structure can prevent the spring from failing due to medium blockage and avoid the valve from being stuck.
7. 寬弧面刮刀結構，提高閥座耐磨性，降低密封副摩擦和磨損。
The wide cambered surface-scraper structure improves the wear resistance of the seat while reducing the abrasion and wear of sealing surfaces.
8. 排污結構，可實現閥內腔殘留介質的排放；注脂結構，可實現閥門緊急密封功能。
The drain structure is used to discharge the residual medium in the valve cavity; the grease injection structure enables a valve to be sealed in an emergency.

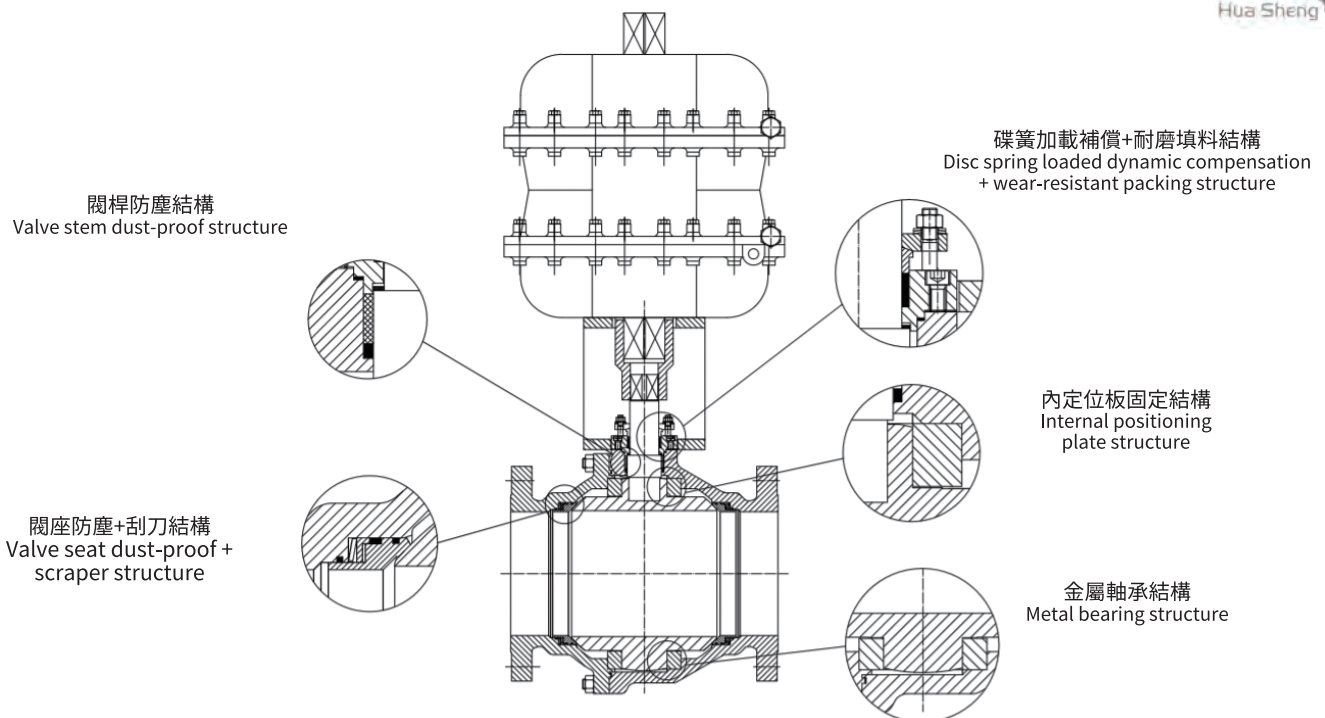


PDS高頻球閥

PDS High-frequency Ball Valve

- 設計標準
ASME B16.34-2017法蘭、螺紋和焊接端連接的閥門
ASME B16.5-2017 管法蘭和法蘭配件
ASME B16.10-2017閥門的面到面和端到端尺寸
API 6D-2014管線和管道閥門規範
- 洩漏標準
API 598-2016 閥門的檢查與試驗
API 607-2016 90°旋轉軟密封閥座閥門的耐火試驗
ISO 15848-1-2015 工業閥門漏氣的測量、試驗及鑑定程序第1部分
- Design Standard
ASME B16.34-2017 Flanged, Threaded, and Welding End Valves
ASME B16.5-2017 Pipe Flanges and Flanged Fittings
ASME B16.10-2017 Face-to-Face and End-to-End Dimensions of Valves
API 6D-2014 Specification for Pipeline and Piping Valves
- Leakage Standard
API 598-2016 Valve Inspection and Testing
API 607-2016 Fire Test for Soft-Seated Quarter-Turn Valves
ISO 15848-1-2015 Industrial Valves - Measurement, Test and Qualification Procedures for Fugitive Emissions.
- 通用壓力：Class 150~600
通用尺寸：DN15~DN400
溫度範圍：-45°C~+230°C
洩漏等級：雙向ANSI VI
動作開關壽命：**100萬次以上**
開關時間：DN150級以下:開<1.5s，關<1.5s
DN200級以上：開<2.5s，關<2.5s
開關頻率：每周期約20秒-3分鐘
防火試驗：滿足API6FA
Pressure rating：Class 150~600
Nominal size：DN15~DN400
Temperature range：-45°C~+230°C
Leakage level：ANSI Class VI (Bidirectional)
Action switch life：**More than 1 million cycles**
Switching frequency：DN150 and below；Open <1.5 s，Close<1.5s
DN200 and above：Open<2.5s，Close<2.5s
- Fire test：meets API 6FA





- 1) 填料防堵結構，有效防止填料顆粒進入間隙腔，形成介質堆積；
- 2) 專用耐磨合金，具有優良的耐磨、抗鹼、抗氧化和導熱導電特性，避免在高頻開關過程中球與座之間的黏接現象；
- 3) 寬弧面閥座刮刀結構，有效清除球芯表面附著的顆粒介質，降低座及球磨損及拉傷；
- 4) 雙向DBB閥座密封結構，可實現閥門高密封性能，洩漏等級可達ANSI VI(TSO)要求；
- 5) 內固定支撐板結構，提高閥的定位精度，保證閥桿在高頻動作下嚴格對中性，閥力矩保持長時間使用後無明顯增加；
- 6) 動載補償壓緊結構，對填料提供動載補償磨損量，填料密封長期滿足TA-Luft 低逸散洩漏要求；
- 7) 全金屬耐磨軸承結構，提高軸承耐磨性並降低轉動面之間的摩擦係數；
- 8) 閥桿加粗加厚設計，填料部位表面進行硬化及光整處理，提高耐磨性、降低摩擦係數及磨損速度。

- 1) Dust-proof and anti-blocking structure effectively prevents particulate media from entering the cavity clearance, avoiding media accumulation.
- 2) Special wear-resistant alloy provides excellent wear resistance, anti-adhesion, oxidation resistance, and good thermal and electrical conductivity, preventing bonding between the ball and the seat during high-frequency switching.
- 3) Wide cambered seat scraper structure effectively removes particulate media attached to the surface of the ball, reducing wear and scoring between the seat and the ball.
- 4) Bidirectional DBB seat sealing structure provides high sealing performance in both directions, with leakage level meeting ANSI Class VI (TSO) requirements.
- 5) Internal fixed support plate structure improves valve positioning accuracy, ensuring the valve stem remains precisely centered during high-frequency operation, while keeping valve torque stable during long-term service.
- 6) Dynamic compensation packing seal structure provides dynamic compensation for packing wear, ensuring long-term compliance with TA-Luft low fugitive emission requirements.
- 7) All-metal wear-resistant bearing structure improves bearing durability and reduces the friction coefficient between rotating surfaces.
- 8) Reinforced valve stem design with hardened and polished packing contact surfaces improves wear resistance and reduces friction and wear rate.



配件系列

Accessories Series

5大類 | 18 各品項

氣動驅動器/定位器/限位開關/電磁閥/其他

HVP系列智能閥門定位器是一種先進的全智能閥門定位器，具有低功耗、高精度、高可靠性特點。
HVP series intelligent positioner is an advanced intelligent valve positioner, featuring low power consumption, high accuracy, and high reliability. It utilizes piezoelectric control technology to achieve stable valve control.

- 耗氣量低，穩態 $< 3.6 \times 10 \text{m}^2 \text{Nm}^3/\text{h}$ ，節能降耗
- MTBF $\geq 100,000$ 小時
- 可替代傳統及各類智慧閥門定位器
- 支援角行程與直線行程閥
- 模組化設計，易拆裝維護
- 快速自整定與參數設定
- 控制精度 0.5 級
- 一鍵初始化，安裝快速
- 抗震性能佳、抗干擾強，適用惡劣環境
- 支援 HART、PROFIBUS-PA
- 模糊控制，提升控制穩定性
- 具故障檢測與自診斷功能
- LCD 顯示，非侵入式操作
- 低功耗、低耗氣、低成本
- 標準模組設計，擴充性佳
- IP65/IP66 防護等級
- 適用複雜工況

- Low air consumption, $< 3.6 \times 10 \text{m}^2 \text{Nm}^3/\text{h}$ (steady state)
- MTBF $\geq 100,000$ hours
- Can replace mechanical and intelligent valve positioners
- Compatible with rotary and linear control valves
- Modular design, easy maintenance
- Quick self-tuning & configuration
- Control accuracy: Class 0.5
- Fast installation, one-click initialization
- High vibration resistance and strong EMI immunity
- Supports HART and PROFIBUS-PA
- Fuzzy control algorithm for stable performance
- Fault detection & self-diagnostics
- LCD display, non-intrusive operation
- Low power consumption and operating cost
- Expandable modular system
- IP65/IP66 protection
- Suitable for harsh operating conditions



TD150028

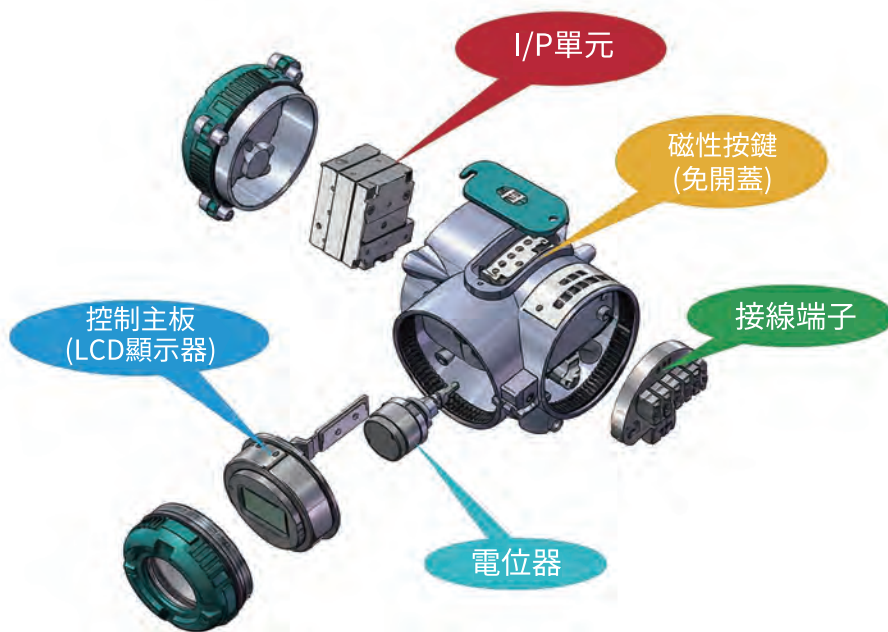


複合防爆設計，防護等級 IP66，三腔分離結構
支持 HART、FF 及 PA 通訊協議
免開蓋即可調試，精度達 0.5 級
內部元件互換性高，316L 材質可選
低耗氣量 $\leq 0.6 \text{NL}/\text{min}$
適用溫度 $-40^\circ\text{C} \sim +80^\circ\text{C}$ ，具防雷擊能力



TD150028





故障診斷 + 維修策略 = 預測性維修

- 配置多種類型感測器
- 即時狀態監測
- 專利控制演算法，控制快速且穩定
- 故障診斷與智慧預測功能
- PST 線上小行程可動性測試（卡滯判斷）
- 支援調試、故障測試與進階診斷
- 可透過獨立電腦直接連接
- 可直接接入設備管理系統 AMS（基礎功能免費使用）



EMC測試 老化測試 環境測試 振動衝擊

ESD—靜電 (8KV)
RS—輻射抗擾度 (10V/m)
EFT—脈衝群 (2KV)
Surge—浪湧 (10KV)
工頻磁場抗擾度 (50Hz 100A/m)

壽命老化測試 20 萬次
溫度老化測試 120°C
.....

噴淋測試 (IP66)
粉塵測試 (8 小時)
鹽霧測試 (NaCl)
.....

振動測試 (6g)
沖擊測試 (10g)
跌落測試 (1m)
.....

高精度零件檢測



部件自動膠封



IP單元自動檢測



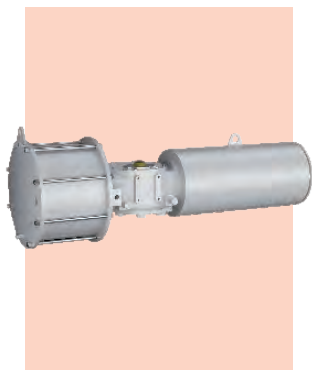
整機自動檢測



成品100%老化測試



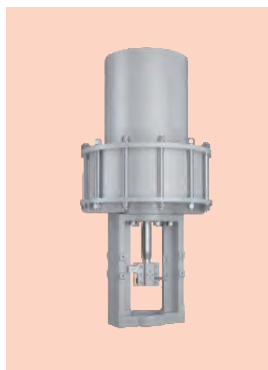
通過嚴格工藝流程實現對產品品質的控制
僅電路加工環節就編制有超過 18 份的工藝指導書
單個型號整機工藝文件超過百份



氣動執行器系列
AW (角行程活塞撥叉式)



氣動執行器系列
HA (薄膜式)



氣動執行器系列
HV (單作用活塞式)



氣動執行器系列
AT (活塞齒輪齒條式)



氣動執行器系列
VR (氣動薄膜式曲柄連桿執行機構)



定位器系列
HVP3 系列智慧閥門定位器



定位器系列
HVP3 系列智慧閥門定位器



定位器系列
HVP11 智慧本安型



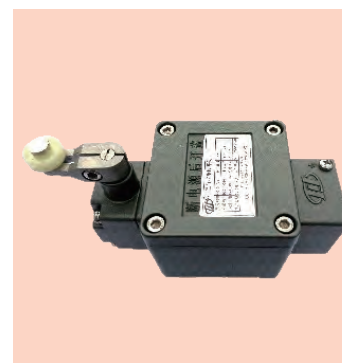
定位器系列
HVP12 智慧隔爆型



定位器系列
HVP20 智慧閥門故障診斷型



限位開關系列
VF04E 限位開關



限位開關系列
VF04D-L 直行程限位開關



限位開關系列
VF04D-R 隔爆型限位開關



電磁閥
先導式電磁閥



其他
AF 空氣過濾減壓閥



其他
VF01 氣動加速器



其他
VF02 氣鎖閥



其他
XBQ 信號比較器

電磁閥 Solenoid Valve



AV



RGS



ARK KVF3130



ASCO

定位器 Positioner



YCT



YCT



SMC



限位開關 Limit Switch Box



HCK



Azbil

三點組合 Filter/Regulator/Lubricator



Norgren





官方LINE@



官方網站



華盛機械工程有限公司

HUA SHENG MECHANICAL ENGINEERING CO., LTD.

華盛機械工程有限公司為閥門的專業維修廠商，

控制閥、氣動閥、焊口閥，各種大小尺寸或線上檢修等皆為我司主要的維修項目。

華盛的技術人員經驗豐富，在化學廠及煉鋼廠多有實績，足跡遍佈南北，遠達越南(越鋼)，
不僅替您維修，針對製程遭遇問題更能提供改善建議。

我司有標準一貫化的檢修流程，技師經驗豐富，也是維持品質的重要一環，
配合客戶端製程特性稍作調整或修正，讓重新上線的閥件操作更為順暢。

在檢修過程中搭配使用我司自行設計之APP系統，確保維修閥件過程不遺漏任何步驟，
各步驟拍照記錄檢修過程，在業界獲得客戶的肯定與信賴。

以「專業」「可靠」「品質」為經營理念，追求更好技術服務。

HUA SHENG MECHANICAL ENGINEERING CO., LTD.

is a professional valve maintenance service provider specializing in the inspection, overhaul, and maintenance of control valves, pneumatic valves, and welded-end valves. Our services cover a wide range of valve sizes and specifications, including on-site and in-line maintenance.

Our experienced technicians have proven service records in chemical plants and steel plants.

Service coverage extends throughout Taiwan and includes overseas projects, such as steel plants in Vietnam. In addition to standard maintenance services, we provide technical analysis and improvement recommendations based on customer process requirements to enhance valve performance, operational stability, and process efficiency.

Standardized maintenance procedures are executed by qualified technicians and can be optimized to meet specific process requirements, ensuring smooth recommissioning and reliable valve operation.

A proprietary in-house application system is utilized to manage maintenance workflows, with photographic records ensuring quality control and full process traceability.

Guided by the principles of Professionalism, Reliability, and Quality, the company is committed to delivering dependable and high-quality valve maintenance services.



華盛機械工程有限公司
HUA SHENG MECHANICAL ENGINEERING CO., LTD.

公司介紹 Introduction

專業閥門維修與工程服務



全面閥門維修能力 Comprehensive Valve Services

- 控制閥、氣動閥、焊口閥、安全閥等各類閥門維修
- 線上檢修、現場拆裝、調校與故障排除
- VOC 改善與檢測
- 定位器/驅動器調整與改造
- 閥門密封件再生、零件再造與硬化處理
- 售後服務與技術支援

『從維修到優化，一條龍技術支援。』

- Comprehensive repair and maintenance for control valves, pneumatic valves, welded-end valves, and safety valves
- In-line maintenance, on-site disassembly and assembly, adjustment, and troubleshooting
- VOC leakage improvement and testing
- Positioner and actuator adjustment and modification
- Valve seal regeneration, parts remanufacturing, and hardening treatments
- After-sales service and technical support

品牌認證

Authorized Service Center



2023年，華盛成為KITZ授權閥門維修服務中心，彰顯其維修品質與國際認可的技術水準。

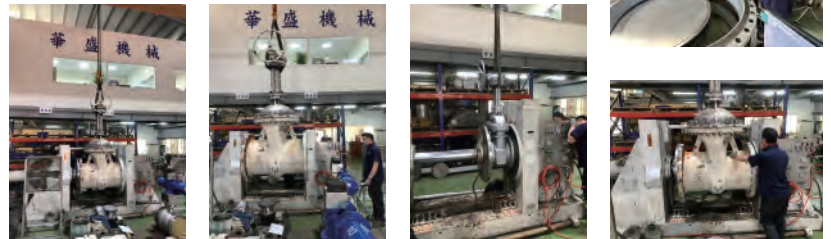
In 2023, Hua Sheng was appointed as an authorized KITZ valve maintenance service center, highlighting our recognized technical standards and service quality.

技術實績豐富

Proven Field Experience

技術團隊經驗豐富、專業能力卓越，長期服務化工與煉鋼等重工業客戶，服務足跡遍及台灣南北，並積極拓展海外市場。

Experienced and highly skilled technical team, serving chemical and steel industries, with service coverage across Taiwan and expanding into overseas markets.



維修系統化管理

華盛導入系統化管理工程模式，將閥門維修、檢測、分析與履歷追蹤全面數位化與標準化，建立從拆解、檢測、零件更換、測試驗證到完工結案的完整流程管控機制。

透過制度化管理與精準數據紀錄，不僅確保每一項工程品質穩定一致，更實現「可追溯、可分析、可優化」的專業維修體系。

我們不僅修復設備，更重望效率與價值，打造真正具競爭力的管理標準。



聯絡我們

📍 地址 Address

83163 高雄市大寮區鳳明路222-2號
No. 222-2, Fengming Rd., Daliao Dist.,
Kaohsiung City 83163, Taiwan

☎ 電話 Tel

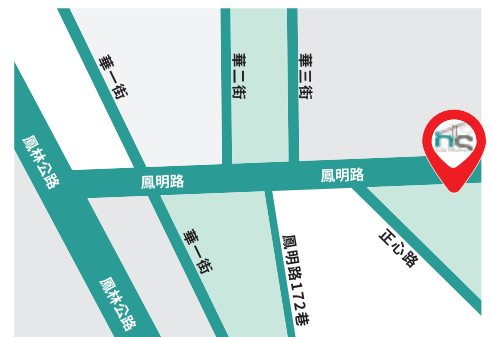
886-07-7877081

📠 傳真 Fax

886-07-7877082

✉ 電子郵件 Email

hs.hs9255@gmail.com



維修流程標準化

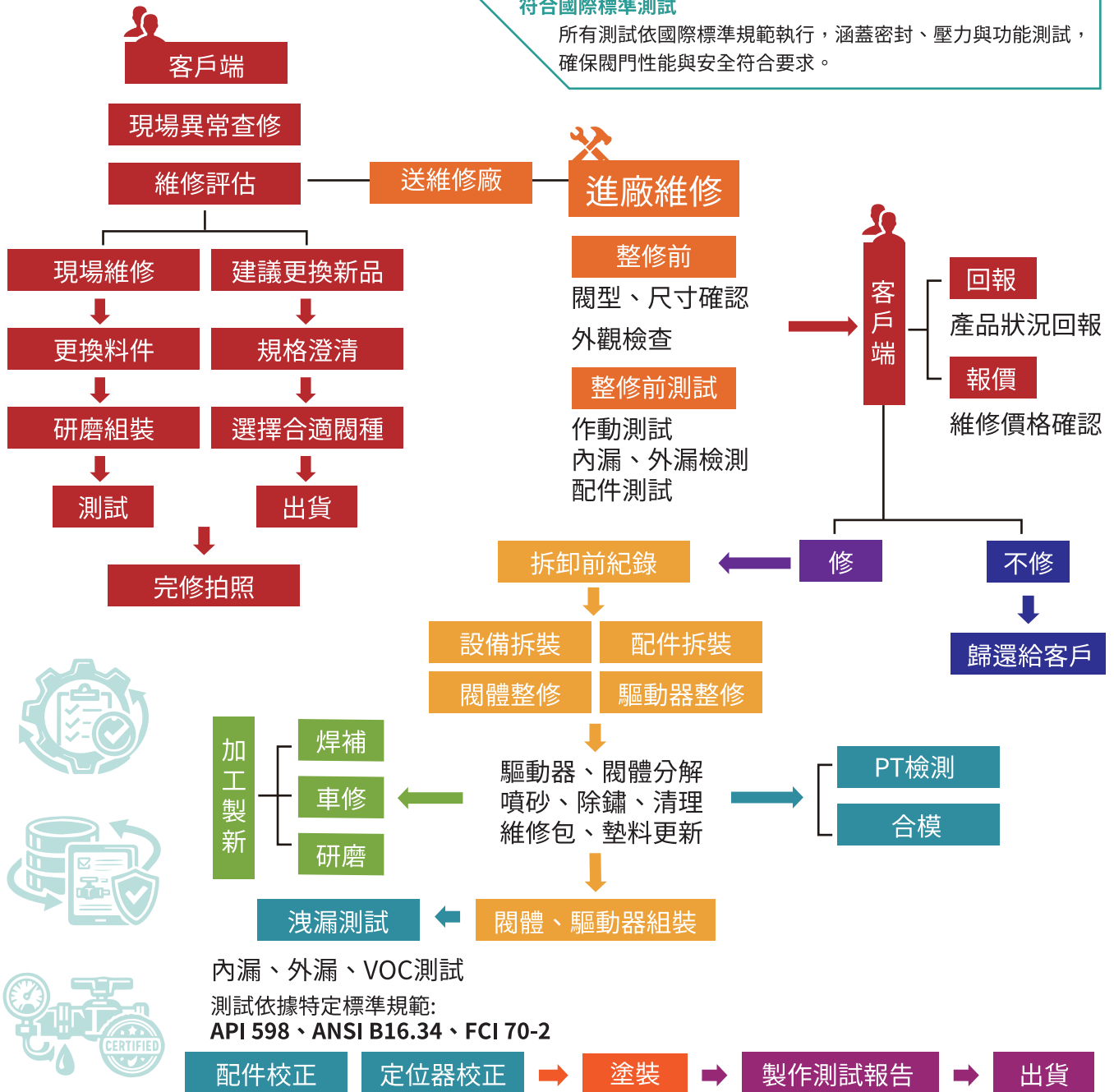
維修專業優勢 Standardized & Professional Maintenance Advantages

標準化維修流程

依公司標準作業流程執行維修，從拆解、檢測、分析到組裝與測試，全程制度化管理，確保品質一致與運作可靠。

符合國際標準測試

所有測試依國際標準規範執行，涵蓋密封、壓力與功能測試，確保閥門性能與安全符合要求。



Standardized Maintenance Procedure

Maintenance is performed in accordance with established standard procedures, covering disassembly, inspection, analysis, reassembly, and testing to ensure consistent quality and reliability.

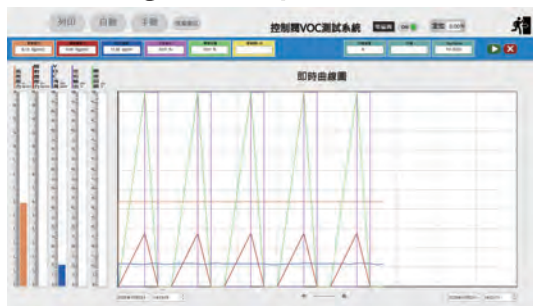
Testing in Compliance with International Standards

All tests are conducted in accordance with international standards, including sealing, pressure, and functional testing to ensure performance and safety compliance.

專業維修檢測設備與實績展現

揮發性有機化合物 VOC / 洩漏電腦測試儀

Volatile Organic Compounds (VOC) / Leakage Computerized Testing Instrument



多功能智慧型閥件測試設備

Multi-Functional Intelligent Valve Testing Equipment

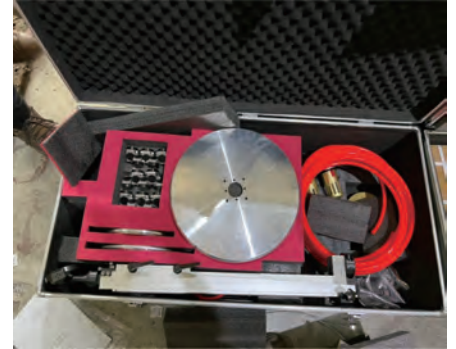


智慧型定位器校正器 (TRES HART)

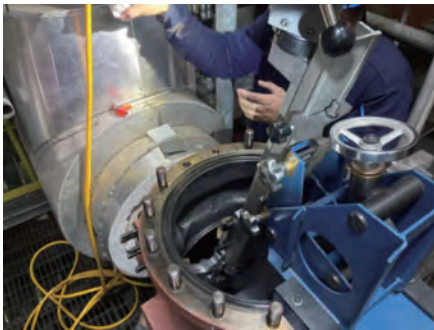
Smart Valve Positioner Calibration Communicator (TRES HART)



全功能攜帶型線上研磨設備
Multi-Functional Portable Online Grinding Equipment



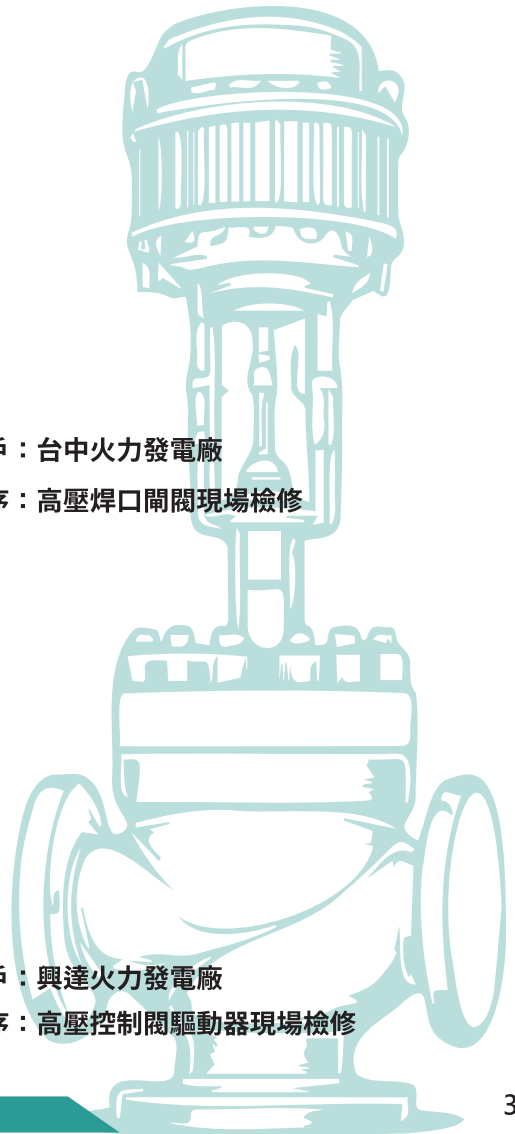
客戶：中龍鋼鐵
工序：高壓焊口閘閥線上研磨



客戶：台中火力發電廠
工序：高壓焊口閘閥現場檢修



客戶：興達火力發電廠
工序：高壓控制閥驅動器現場檢修





專業維修技術服務 閥門與配件選用諮詢

官方網站



官方LINE@



華盛機械工程有限公司

HUA SHENG MECHANICAL ENGINEERING CO., LTD.

83163高雄市大寮區鳳明路222之2號

No. 222-2, Fengming Rd., Daliao Dist.,
Kaohsiung City 831135, Taiwan (R.O.C.)

TEL :07-7877081 FAX :07-7877082

E-mail : hs.hs9255@gmail.com

統編 : 24666244



重慶川儀自動化股份有限公司

CHONGQING CHUANYI AUTOMATION CO.,LTD.

重慶市兩江新區黃山大道中段61號

No. 61, Middle Section of Huangshan
Avenue, Liangjiang New Area,
Chongqing, China

TEL :023-67032088 FAX :023-67032007

E-mail : cyinfo@cqcy.com