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DESIGN 13185889715

BOLON 李朗
Company

特殊材质阀门 Special material valve

钛、锆、镍、钽、哈氏合金、蒙乃尔、英科镍
双相钢、镍铝青铜、20号合金、904L
Titanium, zirconium, nickel, tantalum, Hastelloy alloy, Monel, Inconel
Duplex steel, nickel-aluminum bronze, 20 alloy, 904L



李朗流体控制(浙江)有限公司 BOLON Fluid Control (Zhejiang) Co., Ltd.

地址：浙江省温州市永嘉县瓯北街道和三工业区
Address: Wenzhou City, Yongjia County, Oubei Sub-district and San Industrial Zone, Zhejiang Province

电话Tel: 0577-67188890

手机Mob: 189-6774-8366 158-5872-7699

中文网址: www.bolontiv.com

英文网址: www.bolontivs.com

E-mail: info@bolontivs.com



微信二维码
WeChat QR code



企业官网
Enterprise website

李朗流体控制(浙江)有限公司
BOLON Fluid Control (Zhejiang) Co., Ltd.



Honorary Qualifications

荣誉资质

多年来，李朗人以自己辛勤的汗水获得了国内外多项权威认证，赢得了广大用户和同行的认可，在以后的征程中，李朗人将再接再厉，再创辉煌！
“一份耕耘一份收获”，李朗以优质的产品、良好的信誉，赢得了社会的一致好评，并受到了客户的肯定，各种荣誉纷至沓来。

Over the years, the BOLON people have obtained numerous authoritative certifications both at home and abroad through their hard work, earning the recognition of both users and peers. In the future, the BOLON people will continue to strive and achieve greater success!

"As you work, so is the harvest." BOLON has won unanimous praise from society with its high-quality products and good reputation, and has been affirmed by customers. Various honors have been pouring in.



Company Profile

企业简介

李朗流体控制(浙江)有限公司是业内领先、经验丰富的阀门制造商。自主生产的阀门涵盖了球阀、蝶阀、旋塞阀、闸阀、截止阀、止回阀等。根据工况、介质及客户需求，多种产品尺寸，压力等级以及阀体材料可供选择。我们的旗舰产品是在高温、高压、多杂质等苛刻工况下仍保持长寿命和零泄漏的金属硬密封球阀和纯金属双向压硬密封蝶阀以及耐腐蚀的特殊高合金材质的各种阀门。

李朗为全球各行业包括电力、石油&天然气、炼化、石化、矿山、船舶、冶金以及航空等行业提供阀门。所有产品都是由经验丰富的专业工程师进行设计、制造以及安装，其产品性能和使用寿命通过数据库进行跟踪调查以便及时改进。专业的设计，先进的制造工艺以及严格的测试和质量控制程序使李朗阀门拥有长寿命和维护少的特点。

李朗以其产品卓越的质量和可靠性能在业内享有很高的声誉，并且在不断地改进和提高服务质量和技术支持水平。李朗一直以来以其敬业的态度和专业的技术服务于广大客户并始终坚持履行其对客户的承诺。李朗以为您提供可靠、经济、高效的阀门解决方案。我们致力于并希望能和您一起合作，在未来的发展中与您建立长期的合作关系。

BOLON Fluid Control (Zhejiang) Co., Ltd. is a leading and experienced valve manufacturer in the industry. The valves produced independently cover ball valves, butterfly valves, plug valves, gate valves, globe valves, check valves, etc. According to the working conditions, medium, and customer requirements, various product sizes, pressure grades, and valve body materials can be selected. Our flagship products are metal hard-sealed ball valves that maintain long service life and zero leakage in harsh conditions such as high temperature, high pressure, and high impurity, as well as pure metal bidirectional pressure hard-sealed butterfly valves and various valves made of special high-alloy materials with corrosion resistance.

BOLON provides valves for various industries worldwide, including power, oil & gas, refining and petrochemical, mining, shipping, metallurgy, and aviation. All products are designed, manufactured, and installed by experienced professional engineers, and their product performance and service life are tracked and investigated through databases for timely improvement. Professional design, advanced manufacturing processes, and strict testing and quality control procedures make BOLON valves have the characteristics of long service life and low maintenance.

BOLON enjoys a high reputation in the industry for its excellent product quality and reliable performance, and is constantly improving and enhancing service quality and technical support levels. BOLON has always served its customers with a dedicated attitude and professional technology and has always adhered to fulfilling its commitments to customers. BOLON aims to provide you with reliable, economical, and efficient valve solutions. We are committed and hope to cooperate with you and establish a long-term cooperative relationship in the future development.



Equipment and assembly 设备与装配

企业拥有先进的生产设备，运用崭新的工业概念及强大的技术力量，生产出符合国际标准的高品质产品。

精良的现代化数控加工装备和独特的技术工艺，实现了企业的完美呈现，自主技术开发的高品质产品，充分体现了企业对品牌国际化战略的不懈追求。

The enterprise possesses advanced production equipment, applies novel industrial concepts and powerful technical strength to produce high-quality products that meet international standards.

The sophisticated modern numerical control processing equipment and unique technical processes have achieved the perfect presentation of the enterprise. The high-quality products developed independently through technological innovation fully demonstrate the enterprise's unwavering pursuit of the internationalization strategy of its brand.



让客户满意并超越顾客的期望 Satisfy customers and exceed their expectations



Testing center 检测中心

为了提供高品质产品，
公司配置了先进的检测设备以及完善的检测手段，
建立了一支严格要求的品质管理队伍，
实现了从原材料到生产全过程检测，
产品及应用全过程的质量控制。

In order to offer high-quality products,
The company has equipped with advanced testing equipment and comprehensive testing methods.
Established a strict quality management team,
Achieved testing throughout the entire process from raw materials to production,
And implemented quality control throughout the product and application process.

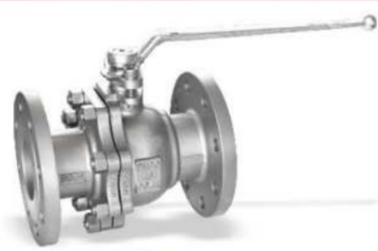


Product Highlights

产品集锦

专业生产：2205(4A)阀门、2507(5A)阀门、CN7M阀门、CD4MCu阀门、254SMo阀门、2520(310S)阀门、904L阀门、TA2、TA10钛系列合金阀门、702锆合金阀门、N6纯镍阀门、N08810、N08825、N06600、N06625系列镍基合金阀门、HC276、HC22、HB系列哈氏合金阀门、M400、M500系列蒙乃尔合金阀门、C95800系列铜合金阀门等特材系列阀门。

Specialized production: 2205(4A) valves, 2507(5A) valves, CN7M valves, CD4MCu valves, 254SMo valves, 2520(310S) valves, 904L valves, TA2, TA10 titanium series alloy valves, 702 zirconium alloy valves, N6 pure nickel valves, N08810, N08825, N06600, N06625 series nickel-based alloy valves, HC276, HC22, HB series Hastelloy alloy valves, M400, M500 series Monel alloy valves, C95800 series copper alloy valves, etc. Special materials series valves.



Q41F/H浮动球阀
floating ball valve



Q347F/H国标固定球阀
Fixed ball valve



锻钢浮动球阀
Forged steel floating ball valve



Q347F/H锻钢固定球阀
Forged steel fixed ball valve



PQ940Y侧装式偏心半球阀
Side mounted eccentric hemispherical valve



BQ41F保温夹套对夹球阀
Insulated jacket clamp ball valve



Q44F/Y三通法兰球阀
Three - Way Flange Ball Valve



Z41H法兰闸阀
Flange Gate Valve



PZ73F/H手动刀型闸阀
Manual knife type gate valve



DMZ43F/H暗杆刀型闸阀
Hidden stem knife type gate valve



J41H法兰截止阀
Flange globe valve



H41H升降式止回阀
Lift check valve



H44H旋启式止回阀
Swing check valve



H76H对夹式止回阀
Clamp check valve



VQ640F/H法兰V型球阀
Flange V-type ball valve



VQ670H对夹V型球阀
V-type ball valve with clamp



PQ940Y侧装式偏心半球阀
Side-mounted eccentric ball valve



D373H国标对夹式蝶阀
National standard clamp butterfly valve



GL41W国标Y型过滤器
National standard Y-shaped filter



ZJHP/M气动薄膜单座/套筒调节阀
Pneumatic thin film single seat/sleeve regulating valve



ZDLM电动/电子式套筒调节阀
Electric/electronic sleeve regulating valve



FLJ41H上展式放料阀
Upward display discharge valve



FL45F/W旋塞阀
Plug valve



LTD3/6/7/973H凸耳式蝶阀
Lug Butterfly Valve



D341H国标法兰式蝶阀
National standard flange butterfly valve



FL45F/W/T展式放料阀
Downward type discharge valve



Z41H美标法兰闸阀
API Flange Gate Valve



J41H美标法兰截止阀
API Flange globe valve



Q41H美标法兰球阀
API Flange ball valve

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64	对夹式止回阀 Wafer check valve
65	H76H对夹式止回阀 Wafer check valve
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● 钛阀门概述 Overview of Titanium Valves

钛是一种具有高度化学活性的金属，但它对许多腐蚀介质都呈现出特别优异的耐腐蚀性。因为钛和氧有很好的亲和力，极易与氧结合而在其表面生成一层坚固且致密的钝性氧化膜。这层氧化膜十分稳定，极难溶解，即使在许多苛刻腐蚀工况介质中遭到破坏，只要有充足的氧，也能自行修复重新生成。钛阀门主要是利用钛金属材料在强腐蚀环境中氧化膜有很好的稳定性和自钝化能力，这一特性来抵抗多种苛刻工况强腐蚀。

钛阀门能否抵抗工作环境介质的腐蚀，关键在于其表面的“钝性氧化膜”在腐蚀介质中的化学稳定性。对于中性、氧化性、弱还原性介质环境“钝性氧化膜”本身就有着很好的稳定性。对于高温或PH值较低的还原性腐蚀介质，为提高其“钝性氧化膜”的稳定性，可通过加入缓蚀剂(如空气、水、重金属离子和阴离子等)，如钛表面离子改性处理，阳极化处理等方法，来提高“钛”在还原性介质中的耐腐蚀性及表面硬度来满足使用要求。对于钛阀的各种处理方法，本公司通过与金属研究所、各大高校等合作，经过多年研究已掌握了一整套处理工艺。

Although titanium is a highly chemically reactive metal, it shows particularly excellent corrosion resistance to many corrosive media. Because titanium has a good affinity for oxygen, it can easily combine with oxygen to form a strong and dense passive oxide film on its surface. This oxide film is extremely stable and hard to dissolve. Even if it is damaged in many harsh corrosive working conditions, as long as there is sufficient oxygen, it can repair and regenerate by itself. Titanium valves mainly take advantage of the excellent stability and self-passivation ability of the oxide film of titanium metal materials in highly corrosive environments, which enables them to resist strong corrosion under various harsh working conditions.

Whether titanium valves can resist the corrosion of the working environment medium depends crucially on the chemical stability of the "passive oxide film" on their surface in the corrosive medium. For neutral, oxidizing and weakly reducing medium environments, the "passive oxide film" itself has very good stability. For high-temperature or low-pH reductive corrosive media, to enhance the stability of the "passive oxide film", methods such as adding corrosion inhibitors (such as air, water, heavy metal ions and anions, etc.), titanium surface ion modification treatment, and anodizing treatment can be adopted to improve the corrosion resistance and surface hardness of "titanium" in reductive media to meet the application requirements. For various processing methods of titanium valves, our company, through cooperation with metal research institutes, major universities and other institutions, has mastered a complete set of processing techniques after years of research.

● 钛及钛合金阀门的耐蚀特点和应用 Corrosion resistance characteristics and applications of titanium and titanium alloy valves

常用的钛及钛合金材料有：TA1、TA2、TA9、TA10、TA12、TC4、Gr2、Gr3、Gr5、Gr7、Gr12

- 钛阀门在大气、淡水、海水、高温水蒸气中，几乎不腐蚀；
- 钛阀门在碱性介质中非常耐腐蚀；
- 钛阀门抗氯离子(Cl-)能力非常强，具有优良的抗氯离子耐蚀能力；
- 钛阀门在王水、次氯酸钠、氨水、湿氯气等介质中有很好的耐腐蚀性；
- 钛在有机酸中的耐蚀性视酸的还原性或氧化性大小而定；
- 钛阀门在还原性酸中的耐蚀性，视介质是否有缓蚀剂而定；
- 钛阀门重量轻，机械强度高，广泛应用航空、军工领域。

钛阀门由于它的性价比高，能抵抗多种腐蚀介质的侵蚀，在民用耐腐蚀工业输送管线中，可解决不锈钢、铜或铝材料阀门难以解决的腐蚀问题。具有安全、可靠，使用寿命长等优点。广泛应用于氯碱工业、纯碱工业、造纸工业、冶炼工业、制药工业、化肥工业、精细化工、纺织纤维合成和漂染工业，基本有机酸和无机盐生产，硝酸工业等。

Commonly used titanium and titanium alloy materials include: TA1, TA2, TA9, TA10, TA12, TC4, Gr2, Gr3, Gr5, Gr7, and Gr12

- Titanium valves hardly corrode in the atmosphere, fresh water, seawater and high-temperature steam.
- Titanium valves are highly corrosion-resistant in alkaline media.
- Titanium valves have a very strong resistance to chloride ions (Cl-) and excellent corrosion resistance to chloride ions.
- Titanium valves have excellent corrosion resistance in media such as aqua regia, sodium hypochlorite, chlorine water, and wet chlorine gas.
- The corrosion resistance of titanium in organic acids depends on the reducing or oxidizing properties of the acid.
- The corrosion resistance of titanium valves in reducing acids depends on whether the medium contains corrosion inhibitors.
- Titanium valves are light in weight and have high mechanical strength, and are widely used in the aviation and military fields.

Titanium valves, due to their high cost performance, can resist the erosion of various corrosive media. In civil corrosion-resistant industrial pipelines, they can solve the corrosion problems that are difficult to address with valves made of stainless steel, copper or aluminum. It has the advantages of safety, reliability and long service life. It is widely applied in the chlor-alkali industry, soda ash industry, papermaking industry, smelting industry, pharmaceutical industry, fertilizer industry, fine chemical industry, textile fiber synthesis and dyeing industry, production of basic organic acids and inorganic salts, nitric acid industry, etc.

● 钛阀门选用注意事项 Precautions for selecting titanium valves

- 钛阀门不宜用于浓度>98%或含>6%游离NO₂的红烟硝酸；
- 钛阀门不宜使用在含水量低于1.5%的干氟气中，纯氧(PO₂>35%)中会发生自然爆炸；
- 钛阀门对含有氢的腐蚀介质，除考虑腐蚀性外，应充分重视氢对钛阀门氢脆的危害性；
- 钛阀门要充分考虑在腐蚀介质中的点蚀及应力腐蚀倾向；
- 钛阀门使用温度不宜超过330°C，超过时建议改用耐温钛合金材料。

钛阀门材料选用时，要充分考虑工况腐蚀介质的工作温度、介质组成成份、各成份浓度、含水量等四个方面，要特别考虑钛阀门在工况介质中出现点蚀及应力腐蚀倾向，自然爆炸，重视因各种原因使钛吸氢产生氢脆等灾难性破坏因素。严禁钛阀门在可能出现以上破坏的工况环境中使用。

- Titanium valves are not suitable for red smoke nitric acid with a concentration greater than 98% or containing more than 6% free NO₂.
- Titanium valves are not suitable for use in dry fluorine gas with a moisture content of less than 1.5%, and natural explosions may occur in pure oxygen (PO₂>35%).
- For titanium valves exposed to corrosive media containing hydrogen, in addition to considering corrosion, full attention should be paid to the hazard of hydrogen to hydrogen embrittlement of titanium valves.

- Titanium valves should fully take into account the tendency of point crevices and stress corrosion in corrosive media;
- The operating temperature of titanium valves should not exceed 330°C. When it does, it is recommended to use heat-resistant titanium alloy materials instead.

When selecting materials for titanium valves, it is necessary to fully consider four aspects: the working temperature of the corrosive medium in the working condition, the composition of the medium, the concentration of each component, and the water content. Special attention should be paid to the occurrence of gaps and stress corrosion tendency of titanium valves in the working condition medium, self-ignition and explosion, and the catastrophic damage factors such as hydrogen embrittlement caused by hydrogen absorption of titanium due to various reasons. Titanium valves are strictly prohibited from being used in working conditions where the above-mentioned damages may occur.

镍及镍合金阀门产品介绍

Introduction to nickel and nickel alloy valve products

● 镍阀门概述 Overview of nickel valves

镍及镍基合金耐蚀阀门耐工况介质腐蚀性针对性强、应用性价比被广泛应用于化学、石油化工、冶金、原子能、海洋开发、电厂脱硫等工业领域输送管线控制系统中，解决一般的不锈钢和其它金属、非金属材料无法解决的腐蚀问题，保证管线控制阀门在极端苛刻腐蚀介质中长期安全、可靠、稳定运行。镍及镍基合金耐蚀合金是耐蚀金属材料中非常重要的一类。镍及镍基耐蚀合金阀门有：纯镍系列阀门、蒙乃尔合金系列阀门、英科乃尔合金系列阀门、英科洛尔合金系列阀门、哈氏合金B系列阀门、哈氏合金C系列阀门、哈氏合金G系列阀门。

Nickel and nickel-based alloy corrosion-resistant valves have strong resistance to the corrosion of working medium and high cost performance. They are widely used in the pipeline control systems of industrial fields such as chemical engineering, petrochemicals, metallurgy, atomic energy, Marine development, and desulfurization in power plants, solving corrosion problems that cannot be addressed by general stainless steel and other metal and non-metal materials. Ensure the long-term safe, reliable and stable operation of pipeline control valves in extremely harsh corrosive media. Nickel and nickel-based corrosion-resistant alloys are a very important type of corrosion-resistant metal material valves. Nickel and nickel-based corrosion-resistant alloy valves include: pure nickel series valves, Monel alloy series valves, Inconel alloy series valves, Inconor alloy series valves, Hastelloy B series valves, Hastelloy C series valves, and Hastelloy G series valves.

● 镍及镍基耐蚀阀门的耐蚀特点和应用

Corrosion resistance characteristics and applications of nickel and nickel-based corrosion-resistant valves

■ 纯镍系列阀门：
常用典型材料：N6、Ni200、Ni201铸件牌号：CZ100
耐蚀特点：纯镍系列阀门在所有浓度和温度下的苛性碱溶液中十分耐腐
蚀，且抗碱裂性能优异。主要应用于高温浓碱腐蚀工况。

■ 蒙乃尔合金系列阀门
常用典型材料：Monel400、MonelK500铸件牌号：M35-1、M35-2、M30C
耐蚀特点：蒙乃尔合金系列阀门具有优良抗还原性酸介质。特别是在高温
氟化氢气体和氢氟酸溶液中有优良的耐蚀性，耐任何浓度氢氟酸溶液的腐
蚀。主要应用于高温氟化氢气体和氢氟酸溶液工况，同时在海水中比铜合金更
具有耐蚀性。

■ 英科乃尔合金系列阀门
常用典型材料：Inconel1600、Inconel625铸件牌号：CY40、CW6MC
耐蚀特点：在高浓度氟化物溶液中有很好的耐应力腐蚀性能，特别在高温水
或含有NaOH的高温水中有着非
常优异的抗应力腐蚀性能。广泛应用于高温水、高温碱溶液腐蚀工况及核
动力堆高温水腐蚀工况。

■ 英科洛尔合金系列阀门
常用典型材料：Incoloy800、Incoloy825铸件牌号：CT15C、CU5MCuC
耐蚀特点：Incoloy800在F、Cl、氨性酸介质冷态条件下耐用，在
H₂SO₄、HNO₃及其混合溶液中也具有良好的耐蚀性。具有耐压力腐蚀和聚乙烯腐
蚀。主要用于核发生器、水加热器、气体冷却器、废汽锅炉。Incoloy 825在
氧化和还原环境下都具有抗酸和碱金属腐蚀性。高镍成份使合金具有有效的
抗应力腐蚀开裂性。在各种介质中的耐蚀性都很好，如硫酸、磷酸、硝酸和
有机酸，碱金属如氢氧化钠、氢氧化钾和盐酸溶液。

■ 哈氏合金C系列阀门
常用典型材料：Hastelloy C、Hastelloy C22、Hastelloy
C276、Hastelloy C4
铸件牌号：CW6M、CW12MW、CX2MW、CW2M
耐蚀特点：哈氏合金C系列具有很多优异性能的耐蚀合金，对氧化性和中
等还原性腐蚀有很好的抵抗能力，具有优异的抗应力腐蚀开裂能力和耐局部腐
蚀能力在化工工艺介质中有满意的耐蚀特性，哈氏合金C系列在化工和石
化领域得到了广泛的应用，如应用在接触含氟化物有机物的元件和催化系统
中。尤其适合在高温、混有杂质的无机酸(磷酸)和有机酸(如醋酸、醋酐、甲酸
和乙酸)、海水腐蚀环境中使用。

■ 哈氏合金B系列阀门
常用典型材料：Hastelloy B、Hastelloy B2铸件牌号：N12MV、N7M
耐蚀特点：哈氏合金B系列在沸点温度以下的所有浓度的盐酸具有耐腐
蚀性，对60%浓度以下的硫酸、磷酸、次氯化铜等还原性盐类物质具有腐蚀性。

■ 哈氏合金G系列阀门
常用典型材料：Hastelloy G、Hastelloy G30
耐蚀特点：哈氏合金G系列阀门在磷酸以及许多高氧化性酸介质混合性环
境如硝酸、硫酸、氢氟酸和硫酸有较其他多数镍基和铁基合金更卓越抗腐
蚀性。

■ Pure nickel series valves:
Common typical materials: N6, Ni200, Ni201. Casting grade: Cz100
Corrosion resistance features: Pure nickel series valves are highly resistant to corrosion in
caustic alkali solutions of all concentrations and temperatures, and have excellent resistance to
alkali cracking. It is mainly applied in working conditions with high-temperature concentrated alkali
corrosive media.

■ Monel Alloy series valves
Common typical materials: Monel400, MonelK500. Casting grades: M35-1, M35-2, M30C
Corrosion resistance feature: Monel alloy series valves have excellent resistance to reducing
acid media. Especially, it has excellent corrosion resistance in high-temperature hydrogen fluoride
gas and hydrofluoric acid solution, and can resist the corrosion of any concentration of hydrofluoric
acid solution. It is mainly applied in high-temperature hydrogen fluoride gas and hydrofluoric acid
solution working conditions, and at the same time, it has better corrosion resistance than copper-
based alloys in seawater.

■ Inconel alloy series valves
Common typical materials: Inconel1600, Inconel625. Casting grades: CY40, CW6MC
Corrosion resistance: It has excellent resistance to stress corrosion in highly concentrated
chloride solutions, especially in high-temperature water or high-temperature water containing
NaOH
It has excellent resistance to stress corrosion. It is widely applied in high-temperature water,
high-temperature alkaline solution corrosion conditions and high-temperature water corrosion
conditions of nuclear power light water reactors.

■ Incoloy alloy series valves
Common typical materials: Incoloy800, Incoloy825. Casting grades: CT15C, CU5MCuC
Corrosion resistance features: INCOLOY 800 is used under condensation conditions in F, Cl,
and ammonia acid media, and in H₂ it also has good corrosion resistance in SO₂, HNO₃ and
their mixed solutions. It is resistant to pressure corrosion and polyethylene corrosion. It is mainly
used in nuclear generators, water heaters, gas coolers and waste steam boilers. Incoloy 825 has
resistance to acid and alkali metal corrosion in both oxidizing and reducing environments. The
high-nickel component endows the alloy with effective resistance to stress corrosion cracking. It has
excellent corrosion resistance in various media, such as sulfuric acid, phosphoric acid, nitric acid
and organic acids, alkali metals like sodium hydroxide, potassium hydroxide and hydrochloric acid
solutions.

■ Hastelloy C series valves
Common typical materials: Hastelloy C, Hastelloy C22, Hastelloy C276, Hastelloy C4
Casting grades: CW6M, CW12MW, CX2MW, CW2M
Corrosion resistance feature: Hastelloy C series is a corrosion-resistant alloy with many
excellent properties. It has a good resistance to oxidizing and moderately reducing corrosion, and
has excellent resistance to stress corrosion cracking and local corrosion. It has satisfactory
corrosion resistance in many chemical process media. Hastelloy C series has been widely used in
the chemical and petrochemical fields. Such as in components and catalytic systems that come into
contact with organic compounds containing chlorides. It is particularly suitable for use in high-
temperature environments mixed with impurities of inorganic acids (phosphoric acid) and organic
acids (such as acetic acid, acetic anhydride, formic acid and acetic acid), as well as in seawater
corrosive environments.

■ Hastelloy B series valves
Common typical materials: Hastelloy B, Hastelloy B2. Casting grades: N12MV, N7M
Corrosion resistance: The Hastelloy B series is resistant to corrosion in hydrochloric acid at all
depths below its boiling point, but it is also corrosive to reducing salts such as sulfuric acid,
phosphoric acid, and copper hypochlorite at concentrations below 60%.

■ Hastelloy G series valves
Common typical materials: Hastelloy G, Hastelloy G30
Corrosion resistance: Hastelloy G series valves have superior corrosion resistance to most
nickel-based and iron-based alloys in mixed environments with phosphoric acid and many highly
oxidizing acid media such as nitric acid, hydrochloric acid, nitric acid/hydrofluoric acid and sulfuric
acid.

● 锆产品概述 Overview of zirconium products

锆属于稀有金属，价格相对昂贵，但它具有高温强度高，耐蚀性好，可加工、性能好和热中截面低等综合性能，是核反应堆的重要结构材料，在核工业中获得大量的应用。近年来，由于它的优异耐蚀性，在民用化学工业的应用也逐渐增多。

锆及锆合金独特的物理和化学耐蚀性，在核工业、航天、航空和民用化工工业等领域应用有着不可替代和优异的性能比被广泛应用于特殊的苛刻工艺管线控制阀门上，锆阀门是保证工艺管线安全长久、稳定可靠运行的生产装置中最佳控制阀门。锆材在民用工业中，由于其材料有着抗氧化性介质和还原性介质腐蚀的优异特性，特别是盐酸和稀硫酸、磷酸、醋酸、醋酐，有着其它材料如钛合金、镍及镍合金等无法比拟的优异抗蚀性，它的耐蚀性比镍合金高一个到几个数量等级，被广泛应用于苛刻腐蚀工况环境。

Zirconium is a rare metal with relatively high prices. However, it possesses comprehensive properties such as high high-temperature strength, good corrosion resistance, processability, excellent performance, and low thermal cross-section. It is an important structural material for nuclear reactors and has been widely applied in the nuclear industry. In recent years, due to its excellent corrosion resistance, its application in the civil chemical industry has gradually increased.

Zirconium and zirconium alloys, with their unique physical and chemical corrosion resistance, have irreplaceable and excellent cost performance in fields such as nuclear industry, aerospace, aviation and civil chemical industry. They are widely used in special and demanding process pipeline control valves. Zirconium valves are the best control valves in production equipment to ensure the safe, long-term, stable and reliable operation of process pipelines. Zirconium materials are widely used in harsh corrosive working conditions in civil industries due to their excellent resistance to both oxidizing and reducing media, especially to hydrochloric acid, dilute sulfuric acid, phosphoric acid, acetic acid, and acetic anhydride. They have superior corrosion resistance that other materials such as titanium alloys, nickel, and nickel alloys cannot match. The corrosion resistance of zirconium materials is one to several grades higher than that of nickel alloys.

● 锆及锆合金阀门的耐蚀特点和应用

Corrosion resistance characteristics and applications of zirconium and zirconium alloy valves

常用的锆及锆合金材料有：Zirconium702、Zirconium705铸件牌号：702C、705C

实验室研究及典型事例已证明锆及锆合金在多数涉及有机酸介质的生产环境中是最好的耐蚀结构材料。事实上，锆在大多数涉及如甲酸(蚁酸)、醋(乙)酸、羟基乙酸、乳酸、甲基丙烯酸、尿素、异丁烯酸甲酯、人造纤维、多种多样醇类、酚醛树脂等有机材料的生产中起了关键作用。锆及锆合金有抵抗高温、高浓度的能力，另外锆离子是无色的，这使它可以用于染色制造业和其它最终产品着色的领域。此外锆还是无毒的，生物亲和力好。

■ 锆及锆合金在所有浓度、温度直至高于沸点的盐酸中，均有优异的耐蚀性，不易发生缝隙腐蚀、点腐蚀和应力腐蚀；

■ 锆及锆合金在硫酸中可耐到沸点、并高于沸点，浓度60%以下的硫酸介质中；

■ 锆及锆合金可耐250°C以下的各种浓度的醋酸/醋酐介质中，其几乎不腐蚀；

■ 锆及锆合金在各种浓度的碱溶液及熔融碱介质中是独一无二的耐蚀材料，甚至优于钽。

■ 锆及锆合金在有机酸中有非常好的耐蚀性

Commonly used zirconium and zirconium alloy materials are: Zirconium702, Zirconium705 casting grades: 702C, 705C

Laboratory studies and typical cases have proved that zirconium and zirconium alloys are the best corrosion-resistant structural materials in most production environments involving organic acid media. In fact, zirconium plays a key role in the production of most organic materials involving formic acid (formic acid), acetic acid (ethyl acid), glycolic acid, lactic acid, methacrylic acid, urea, methyl isobutenate, artificial fibers, a variety of alcohols, phenolic resins, etc. Zirconium and zirconium alloys have the ability to resist high temperatures and high concentrations. Additionally, zirconium ions are colorless, which enables them to be used in the dyeing manufacturing industry and other fields for coloring final products. In addition, zirconium is non-toxic and has good biocompatibility.

■ Zirconium and zirconium alloys have excellent corrosion resistance in hydrochloric acid of all concentrations and temperatures up to the boiling point, and are not prone to crevice corrosion, pitting corrosion and stress corrosion.

■ Zirconium and zirconium alloys can withstand sulfuric acid up to the boiling point and above the boiling point in sulfuric acid media with a concentration of less than 60%.

■ Zirconium and zirconium alloys can withstand various concentrations of acetic acid/acetic anhydride media below 250°C with almost no corrosion.

■ Zirconium and zirconium alloys are unique corrosion-resistant materials in various concentrations of alkaline solutions and molten alkaline media, even superior to tantalum.

■ Zirconium and zirconium alloys have excellent corrosion resistance in organic acids

● 锆阀门选用注意事项 Precautions for selecting zirconium valves

严禁应用于氢氟酸，王水，氟硅酸和硫酸、硝酸混酸介质中；

严禁用于干氯气，发烟硝酸介质工况中；

锆材阀门选用时，要充分考虑工况腐蚀介质的温度、介质成分，各成分浓度，含水量等四个方面。

It is strictly prohibited to be used in hydrofluoric acid, aqua regia, fluosilicic acid and mixed acid media of sulfuric acid and nitric acid.

It is strictly prohibited to be used in the working conditions of dry chlorine gas and fuming nitric acid medium.

When selecting zirconium valves, four aspects should be fully considered: the temperature of the corrosive medium in the working condition, the composition of the medium, the concentration of each component, and the moisture content.

现有材质表
Current Material List

应用领域
Application fields

●可用材料表List of Available Materials

钛以及钛合金 Titanium & Titanium Alloy				
材料Material	棒材Bars	锻造Forging	铸造Casting	
钛Titanium	Titanium TA1	GB/T2965 TA1	GB/T25137F - 1	GB/T6614 ZTA1
	Titanium TA2	GB/T2965 TA2	GB/T25137F-2	GB/T6614ZTA2
	Titanium Gr.2	B348 Gr.2	B381 Gr.F-2	B367 Gr.C-2
钛合金 Titanium Alloy	Titanium Gr.3	B348 Gr.3	B381 Gr.F-3	B367 Gr.C-3
	Titanium Gr.5	B348 Gr.5	B381 Gr.F-5	B367 Gr.C-5
	Titanium Gr.6	B348 Gr.6	B381 Gr.F-6	B367 Gr.C-6
	Titanium Gr.7	B348 Gr.7	B381 Gr.F - 7	B367 Gr.C-7
	Titanium Gr.12	B348 Gr.12	B381 Gr.F-12	B367 Gr.C-12
	Titanium Gr.TC4	GB/T2965 TC4	GB/T2965 TC4	GB/T6614 ZTC4
	Titanium Gr.TA9	GB/T2965 TA9	GB/T2965 TA9	
	Titanium Gr.TA10	GB/T2965 TA10	GB/T2965 TA10	
镍以及镍合金Nickel & Nickel BaseAlloy				
镍 Nickel	Nickel200	B160 N04400	B564 N02200	A494 CZ100
	Nickel201	B160 N02201	B564 N02201	A494M35-1/M35-C
镍基合金 Nickel Base Alloy	Monel400	B164 N04400	B564 N04400	A494 CY40
	Monel K500	B865N05500	B865 N05500	A494 CW6MC
	Inconel600	B166 N06600	B564 N06600	A351CT15C
	Inconel 625	B446 N06625	B564 N06625	A494 CU5MCuC
	Incoloy 800	B408 N08800	B564 N08800	A494N12MV
	Incoloy 800H	B408 N08810	B564 N08810	A494N7M
	Incoloy 825	B425 N08825	B564 N08825	A494 CW12MW/CW6M
	Hastelloy B	B335 N10001	B335 N10001	A494 CX2MW
	Hastelloy B - 2	B335 N10665	B462 N10665	A494 CW2M
	Hastelloy B-3	B335 N10675	B564 N10675	
	Hastelloy C276	B574 N10276	B564 N10276	
	Hastelloy C-22	B574 N06022	B564 N06022	
	Hastelloy C-4	B574 N06455	B574 N06455	
Hastelloy G	B581 N06007	B462 N06007		
Hastelloy G30	B581N06030	B462 N06030		
锆Zirconium				
锆 Zirconium	Zirconium 702	B550 R60702	A493R60702	B752 702C
	Zirconium 705	B550 R60705	A493 R60705	B752 705C
双相钢以及超级双相钢 Duplex &SuperDuplex				
双相钢 Duplex	Duplex S32205	A276 S32205	A182 F60	A890/A995 4A(CD3MN)
	Duplex S31803	A276 S31803	A182 F51(2205)	A890/A995 4A(CD3MN)
超级双相钢 Super Duplex	Super-Duplex S32750	A276 S32750	A182 F53(2507)	A890/A995 5A(CE3MN)
	Super-Duplex S32760	A276 S32760	A182 F55	A890/A995 6A(CD3MWCuN)
铜合金Copper Alloy				
铜合金 Copper Alloy	Ni - Al - Br			B148 C95800
	Ni - Al - Br			B148 C95500
	Ni - Al - Br			B148 C95400
超级奥氏体不锈钢 Super Austenitic Stainless Steel				
超级奥氏体不锈钢 Super Austenitic Stainless Steel	904L	A182 F904L	A182 F904L	904L
	254SMO	A182 F44	A182 F44	A351 CK3MCuN
	AL-6XN	B462 N08367	B462 N08367	A351 CN3MN
	Alloy20	B462 N08020	B462 N08020	A351 CN7M
奥氏体不锈钢 Austenitic Stainless Steel				
奥氏体不锈钢 Austenitic Stainless Steel	304	A276 304	A182 F304	A351 CF8
	304L	A276 304L	A182 F304L	A351 CF3
	316	A276 316	A182 F316	A351 CF8M
	316L	A276 316L	A182 F316L	A351 CF3M
	316Ti	A276 316Ti	A182 F316Ti	
	317	A276 317	A182 F317	A351 CG8M
	317L	A276 317L	A182 F317L	A351 CG3M
	347	A276 347	A182 F347	A351 CF8C
	310	A276 310	A182 F310	A351 CK20

●应用Application

典型应用Typical application	环境Environment	材质Materials	
化工 Chemical	硫酸 Suifuric acid	A351CF3M	
		A351 CD3MWCuN(UNS S32760)	
		A351CK20	
		A351CN7M	
		A990 CN3MCu	
	硝酸Nitric acid	任何浓度Any Concentration	A351CF3M
			SN - 1
	盐酸Hydrochloric acid	低浓度Lower Concentration	A351 CD3MWCuN(UNS S32760)
			Alloy 20
			Hastelloy C 276
乙酸Acetic acid	任何浓度Any Concentration	Hastelloy B	
		A351CF3M	
		A351 CD3MWCuN(UNS S32760)	
		A351CF3MN	
		A351CK3MCuN	
合成尿素Urea synthesizing	尿素Carbamide	Alloy 20	
		Hastelloy C 276	
苏打水制造Soda manufacturing	30 to 50% NaOH	A351CF3M	
	高温和高浓度 Higher temperature and higher concentration	Alloy 20	
炼油与石化 Oil Refining & Petrochemical	氢化脱硫 Hydro desulfurization	Alloy 600	
		H ₂ -H ₂ S	A351 CF8C
	热交换管 Heat Exchange Piping	Wet H ₂ S	A351 CF3M
		海水 Seawater	A351 CD3MWCuN(UNS S32760)
海水处理 Seawater Treatment	海水淡化Seawater desalination	A351CF3M	
		A351 CD3MWCuN(UNS S32760)	
	热交换器 Heat exchangers	A351 CD3MWCuN(UNS S32760)	
		A351 CN3MN	
	泵Pumps	A351 CF3M	
制盐 Salt Manufacturing	制盐工艺 Salt manufacturing process 卤制工艺 Bittern making process	A351 CD3MWCuN(UNS S32760)	
		A351 CD3MWCuN mod.(UNS S32760mod.)	
		A351CN3MN	
		A351CK3MCuN	
环境 Environment	烟气脱硫 Flue Gas Desulfurization	Hastelloy C 276	
		A351CF3M	
		A351CD3MWCuN(UNS S32760)	
	城市垃圾焚烧City Garbage Furnace	高热效加热器 Super heater for high heat efficiency	A351CN3MN
能源 Energy	锅炉Boilers	A351CN3MCuN	
	原子能Nuclear	A351 CK20	
	海水管道Seawater piping	A351 CD3MWCuN(UNS S32760)	
	海水管道Seawater piping	A351 CD3MWCuN(UNS S32760)	

Ball Valve series

球阀系列

BOLON FLUID CONTROL (ZHEJIANG) CO., LTD.



www.bolontiv.com

● 产品概述及特点 Product overview and features

Q41F法兰浮动球阀，球体不带有固定轴的球阀，称为浮动球阀。浮动球阀的阀体内有两个阀座密封圈，在它们之间夹紧一个球体，球体上有通孔，通孔的直径等于管道的内径。球体借助于阀杆可以自由地在阀座密封圈中旋转。在开启时，球孔与管道直径对准，以保证管道工作介质阻力最小；当阀杆转动1/4圈时，球孔垂直于阀门的通道，靠加给两阀座密封圈的预紧力和介质压力将球体紧紧压在出口端的阀座密封圈上，从而保证阀门完全密封。大于DN250不宜采用浮动球阀。

- 1、密封性能先进的多种阀座结构：可根据用户的不同用途与要求设计普通阀座、弹性阀座等结构，确保阀门的密封性能可靠；使用寿命长，减小阀门的操作扭矩。
- 2、手柄操作位置与阀门的开、关位置一致：手柄的正确安装位置为手柄与通道平行，可根据手柄的位置来判断阀门的开启度，以防止误操作。
- 3、阀门全开、全关位置的锁紧装置：为防止启、闭阀门的误动作，在全开、全关位置设置有锁定孔。可将阀门位置锁定，以防止其他人误动，以及震动等原因引起的阀位误动，保证设备的安全。
- 4、阀杆防飞结构：阀杆的下部设计凸肩，装配时将阀杆从阀体内部下装，防止阀内压力升高阀杆飞出。同时也可以在意外火灾后，阀杆与阀体的密封性能。
- 5、防静电的机能：在使用用于可燃性介质如燃点较低的汽油、天然气、丙烷等易燃介质时，应考虑防止静电的问题，以避免因球体与聚四氟乙烯阀座间的摩擦产生静电而产生爆炸。
- 6、防火结构：球阀的防火结构可在阀门意外发生火灾时起到应急的密封作用，能在一定程度上阻止介质大量外泄及火情蔓延。

Q41F floating ball valve, a ball valve without a fixed shaft, is called a floating ball valve. The valve body of a floating ball valve has two valve seat sealing rings, and a ball is clamped between them. The ball has a through hole, and the diameter of the hole is equal to the inner diameter of the pipeline. The ball can rotate freely in the valve seat sealing rings with the help of the valve stem. When opening, the ball hole aligns with the pipeline diameter to ensure the minimum resistance of the pipeline working medium; when the valve stem rotates 1/4 turn, the ball hole is perpendicular to the valve channel, and the ball is tightly pressed against the valve seat sealing ring at the outlet end by the preload force applied to the two valve seat sealing rings and the medium pressure, thus ensuring the complete sealing of the valve. Floating ball valves are not suitable for pipelines larger than DN250.

1. Advanced multiple valve seat structures for sealing performance: According to different user needs and requirements, structures such as ordinary valve seats and elastic valve seats can be designed to ensure reliable sealing performance of the valve; long service life, reducing the operating torque of the valve.
2. Handwheel operation position consistent with the opening and closing position of the valve: The correct installation position of the handwheel is parallel to the channel, and the opening degree of the valve can be determined by the position of the handwheel to prevent incorrect operation.
3. Locking devices for full opening and full closing positions: To prevent incorrect operation of opening and closing the valve, locking holes are set at full opening and full closing positions. The valve position can be locked to prevent others from mistakenly operating and to prevent valve position misoperation caused by vibration and other reasons, ensuring the safety of the equipment.
4. Valve stem anti-flying structure: The lower part of the valve stem is designed with a raised shoulder. When assembling, the valve stem is installed from the inside of the valve body to prevent the valve stem from flying out due to high valve internal pressure. At the same time, it can also ensure the sealing performance of the valve stem and valve body after an accidental fire.
5. Anti-static function: When used for flammable media such as gasoline with a low ignition point, natural gas, propane and other flammable media, the issue of preventing static electricity should be considered to avoid static electricity generated by the friction between the ball and the polytetrafluoroethylene valve seat causing an explosion.
6. Fireproof structure: The fireproof structure of the ball valve can play an emergency sealing role when the valve accidentally catches fire, and can to a certain extent prevent the large leakage of the medium and the spread of the fire.

● 执行标准 Performance standard

设计依据 Design basis	GB系列 Series
设计标准 Design standard	GB/T 12237
法兰连接结构长度 Flange connection structure length	GB/T 12221
结构长度(焊接) Face to face dimension (welding)	GBT 15188.1
连接法兰 Connecting flange	GB/T9113、JB/T79、HG20592
对焊端 Butt welding ends	GB/T12224
试验和检验 Test and inspection	GB/T13927

● 性能规范 Performance specification

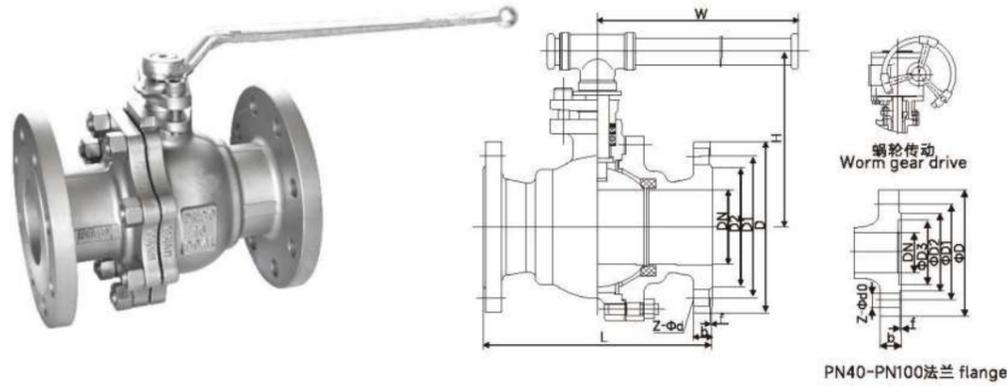
压力等级 Pressure grade	公称压力PN(MPa)					
	1.6	2.5	4.0	6.4	10.0	
试验压力 Test pressure	壳体试验Shell test	2.4	3.8	6.0	15.0	
	密封试验Seal test	1.8	2.75	4.4	11.0	
适用工况 Applicable condition	适用介质 Applicable medium	纸浆、浆料、粉尘及含各种固体颗粒的介质 Pulp, slurry, dust and medium containing various solid particles				
	适用温度 Applicable temperature	-196°C、150°C、250°C、425°C、550°C 要在咨询时提供 To be provided during consultation				
驱动形式 Driving form	手动、蜗轮、气动、电动 Manual, Worm gear, Pneumatic, Electric					

● 主要零部件材质 Main component materials

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、NO4400、NO5500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030

Q41F/H
浮动球阀
Floating ball valve

Q347F/H
固定球阀
Fixed ball valve



PN40-PN100法兰 flange

●主要外形尺寸和连接尺寸 Main shape size and connection size

单位Unit: mm

公称口径 Nominal Diameter DN(mm)	PN16									W				H			
	L	d	D	D1	D2	D3	b	f	Z-Φd0	手动 Manual	蜗轮 Worm gear						
15	130	15	95	65	45	-	14	2	4-14	140	-	85	-	-	-	-	-
20	140	20	105	75	55	-	14	2	4-14	140	-	90	-	-	-	-	-
25	150	25	115	85	65	-	14	2	4-14	160	-	99	-	-	-	-	-
32	165	32	135	100	78	-	16	2	4-18	180	-	105	-	-	-	-	-
40	180	40	145	110	85	-	16	3	4-18	235	-	126	-	-	-	-	-
50	200	50	160	125	100	-	16	3	4-18	250	-	140	-	-	-	-	-
65	220	65	180	145	120	-	18	3	4-18	285	-	165	-	-	-	-	-
80	250	80	195	160	135	-	20	3	8-18	320	-	178	-	-	-	-	-
100	280	100	215	180	155	-	20	3	8-18	350	-	230	380	-	-	-	-
125	320	125	245	210	185	-	22	3	8-18	800	-	280	405	-	-	-	-
150	360	150	280	240	210	-	24	3	8-23	1000	-	310	460	-	-	-	-
200	400	200	335	295	265	-	26	3	12-23	1200	-	350	550	-	-	-	-
250	457	250	405	355	320	-	30	3	12-25	1400	-	-	-	-	-	-	-
PN25																	
15	130	15	95	65	45	-	16	2	4-14	140	-	85	-	-	-	-	-
20	140	20	105	75	55	-	16	2	4-14	140	-	90	-	-	-	-	-
25	150	25	115	85	65	-	16	2	4-14	150	-	99	-	-	-	-	-
32	165	32	135	100	78	-	18	2	4-18	180	-	105	-	-	-	-	-
40	180	40	145	110	85	-	18	3	4-18	200	-	126	-	-	-	-	-
50	200	50	160	125	100	-	20	3	4-18	250	-	140	-	-	-	-	-
65	220	65	180	145	120	-	22	3	8-18	300	-	165	-	-	-	-	-
80	250	80	195	160	135	-	22	3	8-18	350	-	178	-	-	-	-	-
100	280	100	230	190	160	-	24	3	8-23	500	-	230	380	-	-	-	-
125	320	125	270	220	188	-	28	3	8-25	800	-	280	405	-	-	-	-
150	360	150	300	250	218	-	30	3	8-25	1000	-	310	460	-	-	-	-
200	400	200	360	310	278	-	34	3	12-25	1200	-	350	550	-	-	-	-
250	457	250	425	370	332	-	36	3	12-30	1400	-	-	-	-	-	-	-
PN40																	
15	130	16	95	65	45	-	40	16	2	4-14	140	-	85	-	-	-	-
20	140	20	105	75	55	-	51	16	2	4-14	140	-	90	-	-	-	-
25	150	25	115	85	65	-	58	16	2	4-14	150	-	99	-	-	-	-
32	180	32	135	100	78	-	66	18	2	4-18	180	-	105	-	-	-	-
40	200	40	145	110	85	-	76	18	3	4-18	200	-	126	-	-	-	-
50	220	50	160	125	100	-	88	20	3	4-18	250	-	142	-	-	-	-
65	250	65	180	145	120	-	110	22	3	8-18	300	-	165	-	-	-	-
80	280	80	195	160	135	-	121	22	3	8-18	350	305	178	330	-	-	-
100	320	100	230	190	160	-	150	24	3	8-23	500	305	230	380	-	-	-
125	380	125	270	220	188	-	176	28	3	8-25	800	305	280	420	-	-	-
150	400	150	300	250	218	-	204	30	3	8-25	800	305	310	480	-	-	-
200	502	200	375	320	282	-	260	38	3	12-30	1000	400	350	560	-	-	-
PN64																	
15	140	15	105	75	55	-	40	18	2	4-14	140	-	79	-	-	-	-
20	152	20	125	90	68	-	51	20	2	4-18	140	-	83	-	-	-	-
25	165	25	135	100	78	-	58	22	2	4-18	200	-	114	-	-	-	-
32	200	32	150	110	82	-	66	24	2	4-23	200	-	120	-	-	-	-
40	220	40	165	125	95	-	76	24	3	4-23	250	-	125	-	-	-	-
50	250	50	175	135	105	-	88	26	3	4-23	300	-	156	-	-	-	-
65	280	65	200	160	130	-	110	28	3	8-23	350	-	172	-	-	-	-
80	320	80	210	170	140	-	121	30	3	8-23	500	305	220	390	-	-	-
100	360	100	250	200	168	-	150	32	3	8-25	650	305	250	440	-	-	-

●产品概述Product overview

固定球阀，是新一代高性能球阀，适用于长输管线和一般工业管线，其强度、安全性、耐恶劣环境性等在设计时进行了特殊考虑，适用于各种腐蚀性和非腐蚀性介质。它与浮动球阀相比，工作时，阀前流体压力在球体上产生的作用力全部传递给轴承，不会使球体向阀座移动，因而阀座不会承受过大的压力，所以固定球阀的转矩小、阀座变形小，密封性能稳定、使用寿命长，适用于高压、大口径场合。固定球阀有二块式和三块式两种阀体结构，中法兰用螺栓连接，密封采用增强聚四氟乙烯镶入不锈钢圈内，钢圈后部设有弹簧保证阀座紧贴球体，保持密封。

Fixed ball valve is a new generation of high-performance ball valve, suitable for long-distance pipelines and general industrial pipelines. Its strength, safety, and resistance to harsh environments have been specially considered during the design process. It is applicable to various corrosive and non-corrosive media. Compared with floating ball valves, when working, the pressure generated by the fluid in front of the valve on the ball is fully transmitted to the bearing, preventing the ball from moving towards the valve seat, so the valve seat will not bear excessive pressure. Therefore, the torque of the fixed ball valve is small, the valve seat deformation is small, the sealing performance is stable, and the service life is long. It is suitable for high-pressure and large-diameter applications. Fixed ball valves have two types of valve body structures: two-piece and three-piece. The middle flange is connected by bolts, and the seal uses reinforced polytetrafluoroethylene embedded in a stainless steel ring. A spring is set at the rear of the steel ring to ensure that the valve seat tightly adheres to the ball and maintains the seal.

●执行标准Performance standard

设计依据Design basis	GB系列	API系列	
设计标准 Design standards	GB/T 12237	API6D	ANSI B16.34
法兰连接结构长度Flange connection structure length	GB/T 12221	API6D	ANSI B16.10
连接法兰Connecting flange	GB/T9113、JB/T79、HG20592	API6D	ANSI B16.5、B16.47
试验和检验Test and test	GB/T13927	API 598	

●性能规范Performance specification

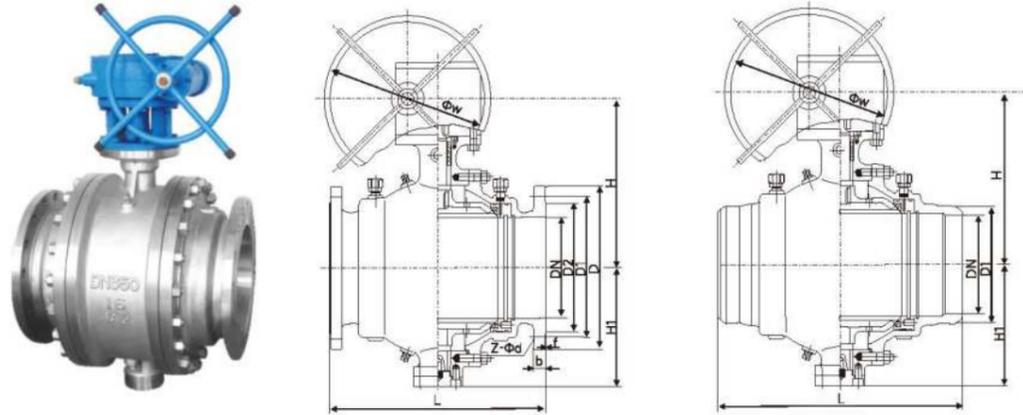
公称压力PN(MPa)	压力等级 Pressure grade	磅级class(Lb)	试验压力 Test pressure (MPa)		适用介质 Applicable medium	适用温度 Applicable temperature	驱动形式 Driving form
			壳体试验 Shell test	密封试验 Seal test			
1.0	-	-	1.5	1.1	纸浆、浆料、粉尘及含各种固体颗粒的介质 Pulp, slurry, dust and medium containing various solid particles	-196°C、150°C、250°C、425°C、550°C 要在咨询时提供 To be provided during consultation	手动、蜗轮、气动、电动 Manual, Worm gear, Pneumatic, Electric
1.6	-	-	2.5	1.76			
2.5	-	-	3.8	2.75			
4.0	-	-	6.0	4.4			
6.4	-	-	9.6	7.04			
-	150	-	3.0	2.2			
-	300	-	7.6	5.6			
-	600	-	16.0	11.0			
-	10k	-	2.4	1.5			
-	20k	-	5.8	4.0			

●主要零部件材质Materials of main parts

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200.、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N0550
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030

Q347F/H
固定球阀
Fixed ball valve

Q347F/H
固定球阀
Fixed ball valve



●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions 单位Unit:mm

DN	L	D	D1	D2	b	f	Z-Φd0	H			
								手动 Manual	347型	647型	
PN16											
50	220	160	125	100	16	3	4-18	25	-	-	
65	241	180	145	120	18		4-18	350	-	-	
80	283	195	180	135	20		8-18	350	-	-	
100	305	215	180	155	20		8-18	420	-	-	
125	381	245	210	185	22		8-18	700	-	542	
150	394	280	240	210	24		8-23	100	305	672	
200	457	335	295	265	28		12-23	1300	398	736	
250	533	405	355	320	30		12-25	1800	495	890	
300	610	460	410	375	30		12-25	-	580	910	
350	686	520	470	435	34		16-25	-	625	1020	
PN25											
50	220	160	125	100	20	3	4-18	250	-	-	
65	241	180	145	120	22		8-18	350	-	-	
80	283	195	160	135	22		8-18	350	-	-	
100	305	230	190	160	24		8-23	420	-	418	
125	381	270	220	188	28		8-25	720	-	542	
150	403	300	250	218	30		8-25	1000	305	572	
200	502	360	310	278	34		12-25	1300	398	736	
250	568	425	370	332	36		12-30	1800	495	890	
300	648	485	430	390	40		16-30	-	580	910	
350	762	550	490	448	44		16-34	-	625	1020	
PN40											
50	220	160	125	100	88	3/4	4-18	250	-	-	
65	241	180	145	120	110		8-18	350	-	-	
80	283	195	160	135	121		8-18	350	-	-	
100	305	230	190	160	150		8-23	420	-	479	
125	381	270	220	188	176		8-25	700	-	646	
150	403	300	250	218	204		8-25	1000	305	666	
200	502	375	320	282	260		38	12-30	1300	398	814
250	568	445	385	345	313		42	12-34	-	495	890
300	648	510	450	408	364		46	16-34	-	580	910
350	782	570	51	465	422		52	16-34	-	625	1020
PN64											
50	292	175	135	105	88	3/4	4-23	350	-	360	
65	330	200	160	130	110		8-23	420	-	379	
80	356	210	170	140	121		8-23	420	-	452	
100	432	250	200	168	150		8-25	700	-	479	
125	508	295	240	202	176		36	8-30	1000	340	646
150	559	340	280	240	204		38	8-34	1300	435	666
200	660	405	345	300	260		44	12-34	-	530	736
250	787	470	400	352	313		48	12-41	-	515	790
300	838	530	460	412	364		54	16-41	-	680	870
350	889	595	525	475	422		60	16-41	-	720	1020
PN100											
400	991	670	585	525	474	66	16-48	-	640	1080	
500	1054	800	705	640	576	70	20-54	-	925	1200	
600	1232	930	820	750	678	76	20-58	-	980	1295	

●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions 单位Unit:mm

DN	L	D	D1	D2	D6	b	f/f1	Z-Φd0	H		
									手动 Manual	347型 type	647型 type
PN40											
50	220	160	125	100	88	20	3/4	4-18	250	-	-
65	241	180	145	120	110	22		8-18	350	-	-
80	283	195	160	135	121	22		8-18	350	-	-
100	305	230	190	160	150	24		8-23	420	-	479
125	381	270	220	188	176	28		8-25	700	-	646
150	403	300	250	218	204	30		8-25	1000	305	666
200	502	375	320	282	260	38		12-30	1300	398	814
250	568	445	385	345	313	42		12-34	-	495	890
300	648	510	450	408	364	46		16-34	-	580	910
350	782	570	51	465	422	52		16-34	-	625	1020
PN64											
50	292	175	135	105	88	26	3/4	4-23	350	-	360
65	330	200	160	130	110	28		8-23	420	-	379
80	356	210	170	140	121	30		8-23	420	-	452
100	432	250	200	168	150	32		8-25	700	-	479
125	508	295	240	202	176	36		8-30	1000	340	646
150	559	340	280	240	204	38		8-34	1300	435	666
200	660	405	345	300	260	44		12-34	-	530	736
250	787	470	400	352	313	48		12-41	-	515	790
300	838	530	460	412	364	54		16-41	-	680	870
350	889	595	525	475	422	60		16-41	-	720	1020
PN100											
400	991	670	585	525	474	66	16-48	-	640	1080	
500	1054	800	705	640	576	70	20-54	-	925	1200	
600	1232	930	820	750	678	76	20-58	-	980	1295	

锻钢浮动球阀

Forged steel floating ball valve

锻钢浮动球阀

Forged steel floating ball valve

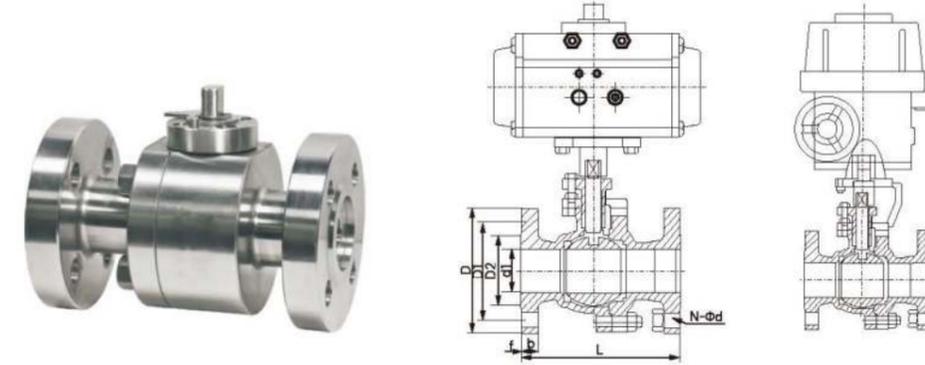
●产品概述及特点Product overview and features

锻钢浮动球阀是一种采用锻钢材质制造、球体无固定轴支撑的阀门，通过介质压力推动球体紧压密封圈实现密封，适用于中高压及腐蚀性介质环境。其核心特点包括：

1. 浮动式设计：球体在阀体内自由浮动，压力越大密封越紧，尤其适合DN200以下、Class600以下的中低压工况。
2. 锻钢材质：阀体经锻造工艺加工，强度高、耐压耐温（-196℃~650℃），适用于石油、化工、电力等严苛环境。
3. 密封性能：采用金属-非金属复合密封（如PTFE），支持双向密封，部分型号具备防火防爆功能。

The forged steel floating ball valve is a type of valve made of forged steel, with the ball body not supported by a fixed shaft. It achieves sealing by pushing the ball against the sealing ring under the pressure of the medium. It is suitable for medium and high pressure as well as corrosive medium environments. Its key features include:

1. Floating design: The ball freely floats within the valve body. The greater the pressure, the tighter the seal. It is particularly suitable for medium and low pressure conditions with a diameter of DN200 or less and a class of Class600 or less.
2. Forged steel material: The valve body is processed by forging technology, with high strength, good pressure resistance, temperature resistance (-196°C to 650°C), and suitable for harsh environments such as petroleum, chemical, and power industries.
3. Sealing performance: It uses a metal-non-metal composite seal (such as PTFE), supports bidirectional sealing, and some models have fireproof and explosion-proof functions.



●执行标准 Performance standard

设计与制造 Design and Manufacturing	结构长度 Structure length	法兰尺寸 Flange size	试验检验 Test inspection
GB/T12237	GB/T12221	JB/T79 HG/T20592	GB/T13927

●性能规范 Performance specification

阀体材料 Body material	公称压力 Nominal pressure	密封材料 Sealing material	适用温度 Applicable temperature
A105	10.0-32.0Mpa	PTFE/PEEK/DVL	120°C-300°C

●主要零部件材质 Materials of main parts

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200.、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030

●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions

单位Unit: mm

DN	L	D	D1	D2	d1	C	f	N-Φd
PN16								
15	130	95	65	45	15	16	2	4-14
20	130	105	75	58	20	18	2	4-14
25	140	115	85	68	25	18	2	4-14
32	165	140	100	78	32	18	2	4-18
40	165	150	110	88	40	18	2	4-18
50	203	165	125	102	50	18	2	4-18
65	222	185	145	122	65	18	2	8-18
80	241	200	160	138	80	20	2	8-18
100	305	220	180	158	100	20	2	8-18
125	356	250	210	188	125	22	2	8-18
150	394	285	240	212	150	22	2	8-22
200		340	295	268	200	24	2	12-22
PN25								
15	130	95	65	45	15	16	2	4-14
20	130	105	75	58	20	18	2	4-14
25	140	115	85	68	25	18	2	4-14
32	180	140	100	78	32	18	2	4-18
40	200	150	110	88	40	18	2	4-18
50	203	165	125	102	50	20	2	4-18
65	241	185	145	122	65	22	2	8-18
80	283	200	160	138	80	24	2	8-18
100	305	235	190	158	100	24	2	8-22
125	381	270	220	188	125	26	2	8-26
150	403	300	250	218	150	28	2	8-26
200	502	360	310	278	200	30	2	12-26
PN40								
15	130	95	65	45	15	16	2	4-14
20	130	105	75	58	20	18	2	4-14
25	140	115	85	68	25	18	2	4-14
32	180	140	100	78	32	18	2	4-18
40	200	150	110	88	40	18	2	4-18
50	230	165	125	102	50	20	2	4-18
65	290	185	145	122	65	22	2	8-18
80	310	200	160	138	80	24	2	8-18
100	350	235	190	162	100	24	2	8-22
125	381	270	220	188	125	26	2	8-26
150	403	300	250	218	150	28	2	8-26
200	502	375	320	285	200	34	2	12-30
PN64								
15	165	105	75	45	15	20	2	4-14
20	190	130	90	58	20	22	2	4-18
25	216	140	100	68	25	24	2	4-18
32	229	155	110	78	32	26	2	4-22
40	241	170	125	88	40	28	2	4-22
50	292	180	135	102	50	26	2	4-22
65	330	205	160	122	65	26	2	8-22
80	356	215	170	138	80	28	2	8-22
100	406	250	200	162	100	30	2	8-26

锻钢固定球阀
Forged steel fixed ball valve

锻钢固定球阀
Forged steel fixed ball valve

●产品概述及特点 Product overview and features

锻钢固定式高压球阀是一种广泛应用于石油、化工、电力等工业领域的阀门。它具有独特的结构特点和使用优势，能够满足各种复杂工况下的流体控制需求。阀体采用锻钢材料制造，具有较高的强度和耐腐蚀性。阀芯采用不锈钢材料制造，具有较好的耐磨性和耐腐蚀性、传动精度和较长的使用寿命。

1. 高压性能：高压球阀的阀芯采用特殊设计，能够承受较高的工作压力，保证阀门的稳定性和可靠性。
2. 密封性能：该阀门采用优质密封件，能够实现较好的密封性能，有效防止流体泄漏。如PEEK、DEVLON。
3. 防火和防静电设计：一对相向的蝶形弹簧；防吹出阀杆；阀杆中部双重密封结构；螺栓、螺纹垫片密封阀盖。

Forged steel fixed high-pressure ball valves are widely used in industries such as petroleum, chemical engineering, and power. They have unique structural features and advantages, which can meet the fluid control requirements in various complex working conditions. The valve body is made of forged steel, which has high strength and corrosion resistance. The valve core is made of stainless steel, which has good wear resistance and corrosion resistance, as well as high transmission accuracy and a long service life.

1. High-pressure performance: The valve core of the high-pressure ball valve is specially designed to withstand high working pressure, ensuring the stability and reliability of the valve.
2. Sealing performance: This valve uses high-quality sealing components to achieve good sealing performance, effectively preventing fluid leakage. For example, PEEK, DEVLON.
3. Fireproof and anti-static design: a pair of facing butterfly springs; anti-sway valve stem; double-sealed structure in the middle of the valve stem; bolt, threaded gasket sealing valve cover.

●执行标准 Performance standard

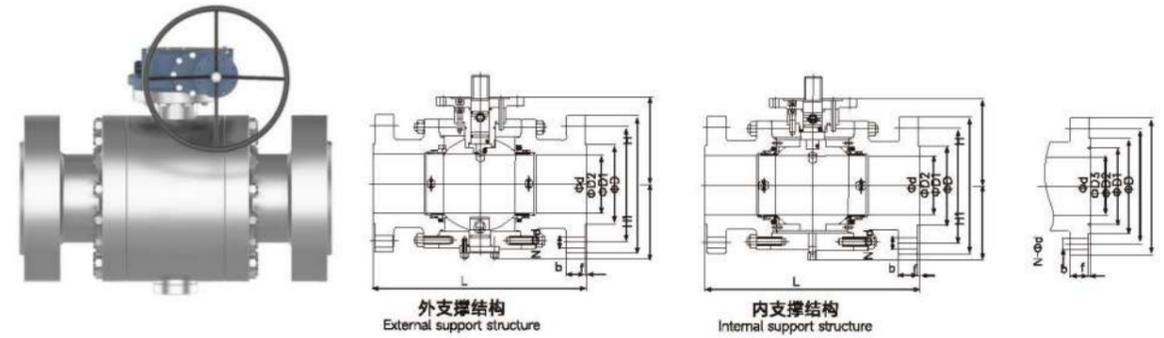
设计与制造 Design and Manufacturing	结构长度 Structure length	法兰尺寸 Flange size	试验检验 Test inspection
GB/T12237	GB/T12221	JB/T79 HG/T20592	GB/T13927

●性能规范 Performance specification

阀体材料 body material	公称压力 Nominal pressure	密封材料 sealing material	适用温度 Applicable temperature
A105	10.0-32.0Mpa	PTFE/PEEK/DVL	120°C-300°C

●主要零部件材质 Materials of main parts

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, C2100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M35-2, M35C, M30H, N04400, N05500
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy C-4, Hastelloy G, Hastelloy G30 N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030



●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions

单位Unit: mm

DN	L	D	D1	D2	d1	C	f	N-Φd
PN16								
50	203	165	125	102	50	18	2	4-18
65	222	185	145	122	65	18	2	8-18
80	241	200	160	138	80	20	2	8-18
100	305	220	180	158	100	20	2	8-18
125	356	250	210	188	125	22	2	8-18
150	394	285	240	212	150	22	2	8-22
200	457	340	295	268	200	24	2	12-22
250	533	405	355	320	250	26	2	12-26
300	610	460	410	378	300	28	2	12-26
350	686	520	470	438	334	30	2	16-26
400	762	580	525	490	385	32	2	16-30
450	864	640	585	550	436	40	2	20-30
500	914	715	650	610	487	44	2	20-33
600	1067	840	770	725	589	54	2	20-36
700	1245	910	840	795	700	42	2	24-36
800	1372	1025	950	900	800	42	2	24-39
900	1524	1125	1050	1000	900	44	2	28-39
1000	1753	1255	1170	1115	1000	46	2	28-42
PN25								
50	203	165	125	102	50	20	2	4-18
65	241	185	145	122	65	22	2	8-18
80	283	200	160	138	80	24	2	8-18
100	305	235	190	158	100	24	2	8-22
125	381	270	220	188	125	26	2	8-26
150	403	300	250	218	150	28	2	8-26
200	502	360	310	278	200	30	2	12-26
250	568	425	370	335	250	32	2	12-30
300	648	485	430	395	300	34	2	16-30
350	762	555	490	450	334	38	2	16-33
400	838	620	550	505	385	40	2	16-36
450	914	670	600	555	436	46	2	20-36
500	991	730	660	615	487	48	2	20-36
600	1143	845	770	720	589	58	2	20-39
700	1346	960	875	820	700	50	2	24-42
800	1524	1085	990	930	800	54	2	24-48
900	1727	1185	1090	1030	900	58	2	28-48
1000	1956	1320	1210	1140	1000	62	2	28-55

PQ940Y
侧装式偏心半球阀
Side-mounted eccentric ball valve

PQ940Y
侧装式偏心半球阀
Side-mounted eccentric ball valve

● **产品概述 Product overview**

PBQ侧装式偏心半球阀是在消化吸收德国CANALI公司生产的对夹式大流量直通阀(Maxiflub-stellventile)的基础上研制成功的,其结构采用偏心一契紧原理通过传动机构达到闸紧、调节、关闭的目的,密封副是金属面环带硬面接触的密封,双偏心结构在开启时阀芯位于半球室内,流量截面大,且阀门不被冲刷,关闭时阀芯不被冲刷,开启时阀芯球面沿阀座渐近,有效地切除结垢障碍,实现可靠密封。它对两相混流易结垢固体析出的混流输送特别有效。第二个特点阀门的半球用双金属,母材上堆焊不同的合金,阀座也作相应堆焊经特殊的处理,密封面组合成防腐、耐磨、高强度等各种类型,满足不同场合需求,第三个特点密封严密,输送有害气体可达零泄漏,第四个特点是密封副的阀芯留有补偿量,当阀座磨损(阀座硬度低于阀芯)后,关闭时再转动少许,仍能可靠密封,延长使用寿命,此外,用户将压紧螺母拧掉,调整或更换后阀座仍可使用,避免了现行众多阀门密封失效整台报废的弊端。因此堆焊不同合金(或组合球)双金属密封副的选配可以用于耐磨、耐腐蚀、耐高温等且又要求严格密封的不同工业部门。

The PBQ side-mounted eccentric hemispherical valve was developed based on the absorption and digestion of the flanged large-flow straight-through valve (Maxiflub-stellventile) produced by the German CANALI company. Its structure adopts the eccentric-pressing principle to achieve the purposes of gate tightening, adjustment, and closing through the transmission mechanism. The sealing pair is a metal ring with a hard surface in contact. The double eccentric structure allows the valve core to be located in the hidden ball chamber when opening, with a large flow section and the valve not being eroded. During closing, the valve core is not eroded. When opening, the spherical surface of the valve core gradually approaches the valve seat, effectively removing the obstruction of scale formation and achieving reliable sealing. It is particularly effective for the mixed flow transportation of two-phase mixed flow with easily scaling solid precipitation. The second feature is that the hemisphere of the valve is made of double metals, with different alloys welded on the base material, and the valve seat is also welded and treated accordingly. The sealing surface is combined into various types such as anti-corrosion, wear-resistant, and high-strength to meet the needs of different occasions. The third feature is that the sealing is tight, and the transportation of harmful gases can reach zero leakage. The fourth feature is that the valve core of the sealing pair has a compensation amount. When the valve seat is worn (the hardness of the valve seat is lower than that of the valve core), turning it slightly again after closing can still achieve reliable sealing, extending the service life. In addition, users can remove the compression nut, adjust or replace it, and the valve seat can still be used, avoiding the drawbacks of many current valves where the seal fails and the entire valve is scrapped. Therefore, the selection of double-metal sealing pairs with different alloys (or combined balls) can be used in different industrial sectors that require wear resistance, corrosion resistance, high temperature resistance, and strict sealing.

● **执行标准 Performance standard**

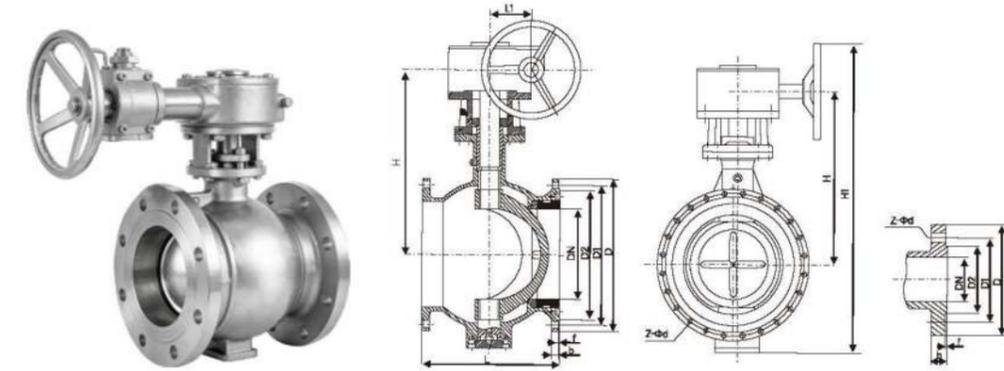
设计与制造 Design and manufacturing	法兰尺寸 Flange size	结构长度 Face to face dimension	检验与试验 Inspection and test
GB/T12237、GB/T26146	GB/9113、JB79.1	GB/T12221	GB/T13927

● **性能规范 Performance specification**

公称压力 (MPa) Nominal pressure	0.6	1.0	1.6	2.5	4.0
公称通径 (MPa) Nominal diameter	40-1600	40-1600	40-1200	40-600	40-600
密封试验压力 (MPa) Sealing test pressure	0.66	1.1	1.76	2.75	4.4
壳体试验压力 (MPa) Shell test pressure	0.9	1.5	2.4	3.75	6.0
适用温度 (°C) Applicable temperature	-29-300、-29-425、-29-540				
适用介质 Applicable media	清水、海水、污水、酸碱等液体、料浆、蒸汽、燃气、油类 Clear water, sea water, sewage, acid and alkali and other liquids, slurry, steam, gas, oil				
驱动方式 Drive mode	手动、电动、气动 Manual, electric, pneumatic				

● **主要零部件材质 Materials of main parts**

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



● **主要外形尺寸和连接尺寸 Main shape size and connection size**

DN	L	D	D1	D2	b-f	Z-Φd
PN10						
50	178	165	125	99	18-3	4-18
65	190	185	145	118	18-3	8-18
80	203	200	160	132	20-3	8-18
100	229	220	180	156	20-3	8-18
125	254	250	210	184	22-3	8-18
150	267	285	240	211	22-3	8-22
200	292	340	295	266	24-3	8-22
250	330	395	350	319	26-3	12-22
300	356	445	400	370	26-4	12-22
350	381/450	505	460	429	26-4	16-22
400	430/530	565	515	480	26-4	16-26
450	505/580	615	565	530	28-4	20-26
500	560/660	670	620	582	28-4	20-26
600	660/680	780	725	682	34-5	20-30
700	750/900	895	840	794	35-5	24-30
800	800/1000	1015	950	901	38-5	24-33
900	950/1100	1115	1050	976	38-5	28-33
1000	1050/1200	1230	1160	1080	44-5	28-36
1200	1300	1455	1380	1292	48-5	28-39
1400	1500	1675	1590	1530	52-5	36-42
1600	1700/1800	1915	1820	1750	56-5	40-48
1800	1800/2100	2115	2020	1950	60-5	44-48
2000	2000/2300	2325	2230	2150	70-5	48-48
PN16						
50	178	165	125	99	18-3	4-18
65	190	185	145	118	18-3	8-18
80	203	200	160	132	20-3	8-18
100	229	220	180	156	20-3	8-18
125	254	250	210	184	22-3	8-18
150	267	285	240	211	22-3	8-22
200	292	340	295	266	24-3	12-22
250	330	405	355	319	26-3	12-26
300	356	460	410	370	28-4	12-26
350	381/450	520	470	429	30-4	16-33
400	430/530	580	525	480	32-4	16-30
450	505/580	640	585	548	40-4	20-30
500	560/660	715	650	609	44-4	20-22
600	660/680	840	770	720	46-5	20-36
700	750/900	910	840	794	48-5	24-36
800	800/1000	1025	950	901	52-5	24-39
900	950/1100	1125	1050	966	54-5	28-39
1000	1050/1200	1255	1170	1070	56-5	28-42
1200	1300	1485	1390	1278	64-5	32-48
1400	1500	1685	1590	1530	68-5	36-48
1600	1700/1800	1930	1820	1750	70-5	40-55
1800	1800/2100	2130	2020	1950	78-5	44-55
2000	2000/2300	2345	2230	2150	84-5	48-60

备注: 本产品尺寸外观仅供参考, 订货尺寸请具体核实。Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

UQ347Y

UQ347Y

U型耐磨球阀

U-type wear-resistant ball valve

U型耐磨球阀

U-type wear-resistant ball valve

产品概述 Product overview

U型耐磨球阀是针对含固体颗粒或高纤维介质输送的恶劣工况而推出的产品，解决了原装置开关困难、易积渣、易冲刷、易磨损等技术难题。该产品主要适用于煤化工、石油化工、多晶硅、LNG等工况的水煤浆、黑灰水、矿浆、粉煤、固化颗粒、粘稠、清洁等介质，具有密封可靠、抗耐磨、冲刷、自清洁、磨损自补偿、寿命长等优点。可有效替代传统的轨道球阀、金属密封球阀、耐磨闸阀等，能保障在严苛工况长周期运行的泄漏等级要求。

The U-type wear-resistant ball valve is a product specially developed for harsh working conditions involving solid particles or high-fiber media. It has overcome technical challenges such as difficult opening and closing, easy accumulation of debris, easy erosion, and easy wear in the original devices.

This product is mainly applicable to water coal slurry, black ash water, mineral slurry, pulverized coal, solidified particles, viscous, clean and other media in industrial conditions such as coal chemical, petrochemical, polysilicon, LNG, etc. It features reliable sealing, excellent wear resistance, resistance to erosion, self-cleaning, self-compensation for wear, and long service life. It can effectively replace traditional track ball valves, metal-sealed ball valves, and wear-resistant gate valves, and can ensure the leakage level requirements for long-term operation in harsh conditions.

执行标准 Performance standard

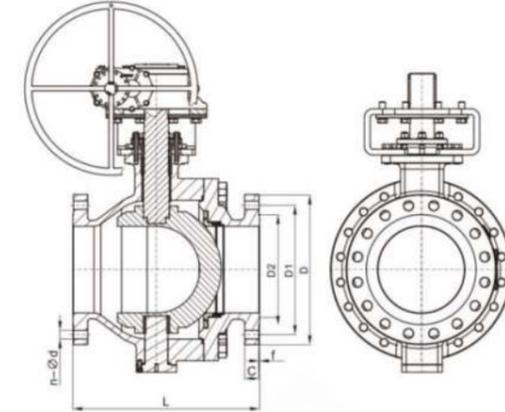
设计依据 Design basis	设计标准 Design standards	法兰连接结构长度 Flange connection structure length	连接法兰 Connecting flange	试验和检验 Test and test
GB系列	GB/T 12237	GB/T 12221	GB/T9113、 JB/T79、HG20592	GB/T13927

性能规范 Performance specification

压力等级 Pressure grade	试验压力 Test pressure (MPa)		适用介质 Applicable medium	适用温度 Applicable temperature	驱动形式 Driving form
	公称压力PN(MPa)	壳体试验 Shell test			
1.0	1.5	1.1	纸浆、浆料、 粉尘及含 各种固体 颗粒的介质 Pulp, slurry, dust and medium containing various solid particles	-196°C、150°C、 250°C、425°C、550°C 要在咨询时提供 To be provided during consultation	手动、蜗轮、 气动、电动 Manual, Worm gear, Pneumatic, Electric
1.6	2.5	1.76			
2.5	3.8	2.75			
4.0	6.0	4.4			
6.4	9.6	7.04			
-	3.0	2.2			
-	7.6	5.6			
-	16.0	11.0			
-	2.4	1.5			
-	5.8	4.0			

主要零部件材质 Materials of main parts

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200.、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions

单位Unit:mm

DN	L		D	D1	D2	n-d1	C	f
	RF	BW						
PN20								
50	178	216	150	120.7	92.1	4-19	14.3	2
65	190	241	180	139.7	104.8	4-19	15.9	2
80	203	283	190	152.4	127	4-19	17.5	2
100	229	315	230	190.5	157.2	8-19	22.3	2
125	356	381	255	215.9	185.7	8-22	22.3	2
150	394	457	280	241.3	215.9	8-22	23.9	2
200	457	521	345	298.5	269.9	8-22	27	2
250	533	559	405	362	323.8	12-26	28.6	2
300	610	635	485	431.8	381	12-26	30.2	2
350	686	762	535	476.3	412.8	12-29	33.4	2
400	762	838	595	539.8	469.9	16-29	35	2
450	864	914	635	577.9	533.4	16-32	38.1	2
500	914	991	700	635	584.2	20-32	41.3	2
600	1067	1143	815	749.3	692.2	20-35	46.1	2
550	1143	1245	870	806.4	749	24-35	56.7	2
700	1245	1346	925	863.6	800	28-35	69.9	2
750	1295	1397	985	914.4	857	28-35	73.1	2
800	1372	1524	1060	977.9	914	28-41	79.4	2
900	1524	1727	1170	1085.6	1022	32-41	88.9	2
PN50								
50	216	216	165	120.7	92.1	8-19	20.7	2
65	241	241	190	149.2	104.8	8-22	23.9	2
80	282	282	210	168.3	127	8-22	27	2
100	305	305	255	200	157.2	8-22	30.2	2
125	381	381	280	235	185.7	8-22	33.4	2
150	403	457	320	269.9	215.9	12-22	35	2
200	502	521	380	330.2	269.9	12-26	39.7	2
250	568	559	445	387.4	323.8	16-29	46.1	2
300	648	635	520	450.8	381	16-32	49.3	2
350	762	762	585	514.4	412.8	20-32	52.4	2
400	838	838	650	571.5	469.9	20-35	55.6	2
450	914	914	710	628.6	533.4	24-35	58.8	2
500	991	991	775	685.8	584.2	24-35	62	2
600	1143	1143	915	812.8	692.2	24-41	68.3	2
650	1245	1245	970	876.3	749	28-45	77.8	2
700	1346	1346	1035	939.8	800	28-45	84.2	2
750	1397	1397	1090	997	857	28-48	90.5	2
800	1524	1524	1150	1054.1	914	28-51	96.9	2
900	1727	1727	1270	1168.4	1022	32-54	103.2	2

Q44F/Y
三通法兰球阀
Three - Way Flange Ball Valve

Q44F/Y
三通法兰球阀
Three - Way Flange Ball Valve

● **产品概述 Product overview**

三通球阀适用于PN16~PN40的各种管路上,用于介质流向的切换、分流、合流等,选用不同的材质,本阀适用于工作温度<150°C的水、蒸汽、油品、液化气、天然气、煤气、硝酸、醋酸、氧化性介质、尿素等多种介质。三通球阀的驱动方式为手动、蜗轮蜗杆传动、气动或电动,连接方式一般为法兰连接,根据用户要求,也可采用其它连接方式。

L形三通球阀(Q44型)用于管路中介质流向的切换,能使相互垂直的两上流道连通。T形三通球阀(Q45型)可用于介质的分流、合流及流向切换,T形球阀体通道可以使三个通道互相连通或使其中的两个通道连通,T形球阀可以实现其中的两种、三种或四种功能,但要实现的功能不同,阀门的设计有一定的差异,因此,对于T形三通球阀,用户在选用和订货时,需要对使用要求作详细的描述,以便佳一公司正确的设计与配置,对于普通的浮动球三通球阀,某些工况是不适合使用的,用户在选用时要特别注意,本公司有许多独特结构设计的三通球阀可以满足用户的一些特别工况和特殊要求。对于普通的三通球阀,我公司一般采用两阀座结构设计。根据用户要求,佳一公司也可设计制造四阀座三通球阀。

The three-way ball valve is suitable for various pipelines with a pressure range of PN16 to PN40. It is used for switching the flow direction, splitting, and merging of the medium. By choosing different materials, this valve is applicable to various media such as water, steam, oil, liquefied gas, natural gas, gas, nitric acid, acetic acid, oxidizing media, urea, and many others with a working temperature of <150°C. The driving method of the three-way ball valve is manual, worm gear transmission, pneumatic or electric. The connection method is generally flange connection. According to user requirements, other connection methods can also be adopted.

The L-shaped three-way ball valve (Model Q44) is used for switching the flow direction in the pipeline, enabling the two vertical inlet channels to be connected. The T-shaped three-way ball valve (Model Q45) can be used for splitting, merging, and flow direction switching of the medium. The T-shaped ball body channel can connect three channels or make two of the channels connected. The T-shaped ball valve can achieve two, three, or four functions, but the design of the valve varies depending on the different functions to be achieved. Therefore, for the T-shaped three-way ball valve, users need to provide detailed descriptions of the usage requirements when selecting and ordering to enable Jia Yi Company to design and configure correctly. For ordinary floating ball three-way ball valves, certain working conditions are not suitable for use. Users should pay special attention when selecting. Our company has many uniquely structured three-way ball valves that can meet some special working conditions and special requirements of users. For ordinary three-way ball valves, our company generally adopts a two-seat structure design. According to user requirements, Jia Yi Company can also design and manufacture four-seat three-way ball valves.

● **执行标准 Performance standard**

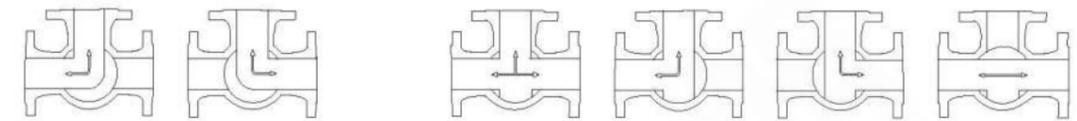
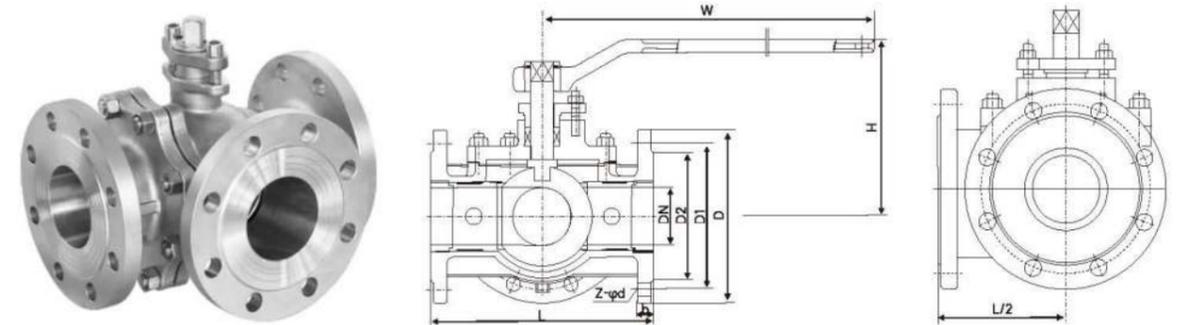
设计与制造 Design and manufacturing	结构长度 Structure length	检验与试验 Inspection and test	连接法兰 Connecting flange
GB/T12237, API 608	GB/T12221	GB/T13927, API598	JB/T791-HG/T20592, ASME/ANSI B16.5

● **性能规范 Performance specification**

型号 Model	公称压力 PN(Mpa)	试验压力 Test pressure P5 (Mpa)		工作压力 Working pressure (Mpa)(气体 Gas)	工作温度°C Working temperature	适用介质 Applicable medium
		密封 Seal up	强度 Strength			
Q44F-16C	1.6	1.76	2.4	1.6	<150°C	油、汽水 Oil, soda
Q44F-16P	1.6	1.76	2.4	1.6	<150°C	醋酸类 Acetic acid
Q44F-16R	1.6	1.76	2.4	1.6	<150°C	硝酸类 Nitric acid

● **主要零部件材质 Materials of main parts**

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, CZ100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M35-2, M35C, M30H, N04400, N05500
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy C-4, Hastelloy G, Hastelloy G30 N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030



L型三通球阀的两种使用状态
Two use states of L type three pass ball valve

T型三通球阀的四种使用状态
Four use states of T type three pass ball valve



普通L型三通浮动球阀不适用的几种工况
Several Operating Conditions of Universal L-type
Three-way Floating Ball Valve Not Applicable

普通T型三通浮动球阀不适用的几种工况
Several Operating Conditions of T-type Three-way
Floating Ball Valve Not Applicable

● **主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions**

单位(Unit): mm

公称通径 DN(mm)	主要外形尺寸 Main shape size							
	L	D	D1	D2	b	Z-φd	H	W
PN16								
15	160	95	65	45	14	4-φ14	95	140
20	170	105	75	55	14	4-φ14	105	160
25	180	115	85	65	14	4-φ14	113	180
32	200	135	100	78	16	4-φ18	135	250
40	220	145	110	85	16	4-φ18	142	300
50	240	160	125	100	16	4-φ18	154	350
65	260	180	145	120	18	4-φ18	175	350
80	280	195	160	135	20	8-φ18	190	400
100	320	215	180	155	20	8-φ18	225	500
125	380	245	210	185	22	8-φ18	245	600
150	440	280	240	210	24	8-φ23	265	800
200	580	335	295	265	26	12-φ23	305	800

注: 尺寸PN1.6~2.5MPa, 详细尺寸请咨询业务部。Note: size PN1.6~2.5MPa, please consult the business department for details.

V型球阀

V type ball valve

对夹V型球阀

Angle V-type ball valve

●产品概述及特点Product overview and features

V型球阀属于固定球阀，也是单阀座密封球阀，调节性能是球阀中最佳的，流量特性是等百分比的，可调比达100:1。它的V型切口与金属阀座之间具有剪切作用，特别适合含纤维、微小固体颗粒、料浆等介质。

- 1、阀芯、阀杆花键连接，对中性、稳定性好，扭矩损失小，避免死区，调节精度高；
- 2、上下阀杆双轴承固定，自润滑性好，阀芯运转稳定，阀门动作不易咬死；
- 3、阀座采用波形弹簧预紧，自补偿密封，密封性能好，模块化设计，适应高低温在线更换；
- 4、阀座采用加长型设计，阀体上腔流路得到充分保护，免于冲刷，提高了阀门的使用寿命；
- 5、软密封密封副弹性补偿浮动型设计，依靠介质压力提高密封比压，密封可靠；安装、拆卸方便，易于维护。

The V-shaped ball valve belongs to the fixed ball valve and is also a single-seat sealing ball valve. Its regulating performance is the best among ball valves, with a flow characteristic of equal percentage, and the adjustable ratio can reach 100:1. The V-shaped notch of the valve has a shearing effect with the metal valve seat, making it particularly suitable for media containing fibers, tiny solid particles, slurries, etc.

1. The valve core and valve stem are connected by a spline, ensuring good alignment, stability, and low torque loss, avoiding dead zones, and achieving high adjustment accuracy;
2. The upper and lower valve stems are fixed by double bearings, with good self-lubrication, stable valve core operation, and less likelihood of getting stuck during valve action;
3. The valve seat is pre-tightened by a wave-shaped spring, with self-compensating sealing, excellent sealing performance, modular design, and the ability to be replaced online in high and low temperatures;
4. The valve seat is designed with an extended shape, protecting the upper chamber flow path of the valve body, avoiding erosion and enhancing the service life of the valve;
5. The soft-seal sealing pair adopts an elastic compensation floating design, relying on the medium pressure to increase the sealing pressure ratio, ensuring reliable sealing; installation and disassembly are convenient, and maintenance is easy.

●执行标准Executive standards

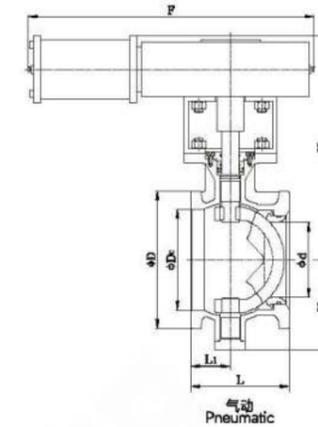
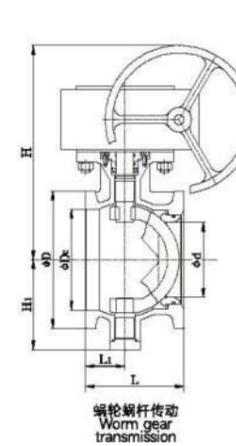
设计与制造 Design and manufacturing	连接法兰 Connecting flange	结构长度 Face to face dimension	检验与试验 Inspection and test
GB/T12237, API608	JB/T79.1-79.4	ASMEB16.10, GB/T12221	GB/T13927, ISO5208

●主要性能规范Main performance specifications

公称直径 Nominal diameter	DN25-DN300
公称压力 Nominal pressure	PN16/25/40, CL150(PN20)/300(PN50)
操作温度 Operating temperature	-46°C~400°C
可调比 Adjustable ratio	300:1
泄漏等级 Leakage level	ANSI B16.104:IV, V, VI
驱动形式 Driving form	手动、蜗轮、气动、电动Manual, Worm gear, Pneumatic, Electric

●主要零部件材质Main component materials

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, CZ100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M35-2, M35C, M30H, N04400, N05500
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy C-4, Hastelloy G, Hastelloy G30 N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030



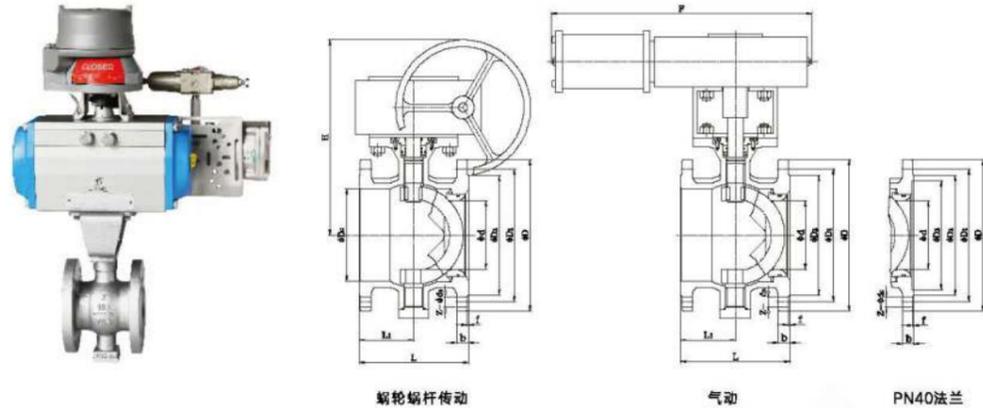
●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions

单位Unit: mm

公称直径 DN	PN16								H	
	L	L1	d	D	DC	H1	F	蜗轮	气动	
25	50	25	20	72	38	57	400	200	222	
40	60	25	32	93	49	63	400	250	228	
50	75	32	38	108	60	92	400	225	248	
65	85	38	50	128	75	100	400	235	255	
80	100	45	64	142	89	108	400	260	270	
100	115	50	76	162	113	117	400	270	289	
125	135	55	100	192	140	140	455	320	335	
150	160	65	125	218	164	177	455	340	358	
200	200	80	150	273	205	200	700	390	405	
250	240	92	200	329	259	252	700	420	449	
公称直径 DN	PN25								H	
	L	L1	d	D	DC	H1	F	蜗轮	气动	
25	50	25	20	72	38	57	400	200	222	
40	60	25	32	93	49	63	400	205	228	
50	75	32	38	108	60	92	400	225	248	
65	85	38	50	128	75	100	400	235	255	
80	100	45	64	142	89	108	400	260	270	
100	115	50	76	168	113	117	400	270	278	
125	135	55	100	194	140	140	455	320	335	
150	160	65	125	224	164	177	455	340	358	
200	200	80	150	284	205	200	700	390	405	
250	240	92	200	341	259	252	700	420	449	
公称直径 DN	PN40								H	
	L	L1	d	D	DC	H1	F	蜗轮	气动	
25	50	25	20	72	38	57	400	200	222	
40	60	25	32	93	49	63	400	205	228	
50	75	32	38	108	60	92	400	225	248	
65	85	38	50	128	75	100	400	235	255	
80	100	45	64	142	89	108	400	260	270	
100	115	50	76	168	113	117	400	270	278	
125	135	55	100	194	140	140	455	320	336	
150	160	65	125	224	164	177	455	340	358	
200	200	80	150	291	205	200	700	390	405	
250	240	92	200	353	259	252	700	420	449	

法兰V型球阀
Flange V-type ball valve

球閥系列
Ball Valve series



●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions

单位Unit: mm

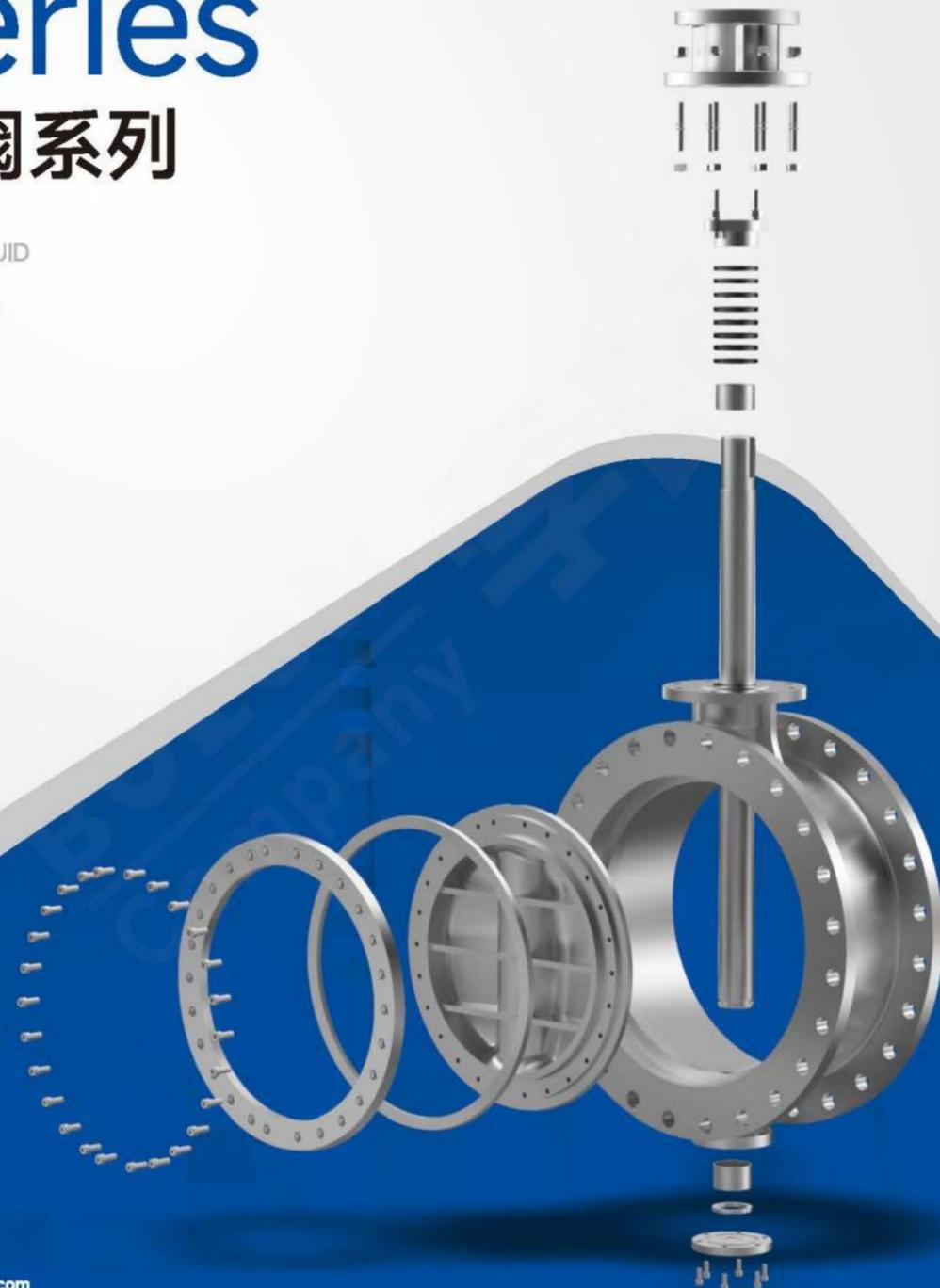
DN	L	L1	d	D	D1	D2	D3	Dc	b	f	Z-Φd0	H1	F	H	
														蜗轮	气动
PN16															
25	102	51	19	115	85	65	-	38	14	2	4-14	57	400	200	222
40	114	57	32	145	110	85	-	49	16	3	4-18	63	400	205	228
50	124	62	38	160	125	100	-	60	16	3	4-18	92	400	225	248
65	145	72.5	51	180	145	120	-	75	18	3	4-18	100	400	235	255
80	165	82.8	64	195	160	135	-	89	20	3	8-18	108	400	260	270
100	194	97	76	215	180	155	-	113	20	3	8-18	117	400	270	278
125	210	105	102	245	210	185	-	140	22	3	8-18	140	455	320	335
150	229	114.5	127	280	240	210	-	164	24	3	8-23	177	455	340	358
200	243	121.5	152	335	295	265	-	205	26	3	12-23	200	700	390	405
250	297	148.5	203	405	355	320	-	259	30	3	12-25	252	700	420	449
300	338	169	254	460	410	375	-	300	30	4	12-25	270	700	510	550
PN25															
25	102	51	19	115	85	65	-	38	16	2	4-14	57	400	200	222
40	114	57	32	145	110	85	-	49	18	3	4-18	63	400	205	228
50	124	62	38	160	125	100	-	60	20	3	4-18	92	400	225	248
65	145	72.5	51	180	145	120	-	75	22	3	8-18	100	400	235	255
80	165	82.8	64	195	160	135	-	89	22	3	8-18	108	400	260	270
100	194	97	76	230	190	160	-	113	24	3	8-23	117	400	270	278
125	210	105	102	270	220	188	-	140	28	3	8-25	140	455	320	335
150	229	114.5	127	300	250	218	-	164	30	3	8-25	177	455	340	358
200	243	121.5	152	360	310	278	-	205	34	3	12-25	200	700	390	405
250	297	148.5	203	425	370	332	-	259	36	3	12-30	252	700	420	449
300	338	169	254	485	430	390	-	300	40	4	16-30	270	700	510	550
PN40															
25	102	51	19	115	85	65	58	38	16	2	4-14	57	400	200	222
40	114	57	32	145	110	85	76	49	18	3	4-18	63	400	205	228
50	124	62	38	160	125	100	88	60	20	3	4-18	92	400	225	248
65	145	72.5	51	180	145	120	110	75	22	3	8-18	100	400	235	255
80	165	82.8	64	195	160	135	121	89	22	3	8-18	108	400	260	270
100	194	97	76	230	190	160	150	113	24	3	8-23	117	400	270	278
125	210	105	102	270	220	188	176	140	28	3	8-25	140	455	320	335
150	229	114.5	127	300	250	218	204	164	30	3	8-25	177	455	340	358
200	243	121.5	152	375	320	282	260	205	38	3	12-30	200	700	390	405
250	297	148.5	203	445	385	345	313	259	42	3	12-34	252	700	420	449
300	338	169	254	510	450	408	364	300	46	4	16-34	270	700	510	550

BOLON 李朗
Company

Butterfly valve series

蝶阀系列

BOLON FLUID CONTROL (ZHEJIANG) CO., LTD.



D3/6/973H
对夹式蝶阀
Wafer butterfly valve

D3/6/973H
对夹式蝶阀
Wafer butterfly valve

● **产品概述及特点 Product overview and features**

硬密封三偏心对夹式蝶阀其工作原理基于三偏心结构设计, 即阀杆轴线、蝶板密封面和阀体通道轴线之间存在一定的偏置, 使得蝶板在开启和关闭过程中与阀座之间不产生摩擦, 而是直接压在阀座上, 从而保证了阀门的密封性能和使用寿命。

- 1、三偏心结构: 确保蝶板与阀座之间的无摩擦接触, 提高密封性能和使用寿命。
- 2、金属硬密封: 采用不锈钢等硬质材料制作密封圈, 具有优异的耐腐蚀性和耐磨损性能。
- 3、多层次密封结构: 进一步提高阀门的密封效果。
- 4、电动执行机构: 操作灵活、省力、方便, 不受介质压力影响。
- 5、对夹连接方式: 安装简便快捷, 适用于各种管道系统的连接需求。
- 6、双向密封性能: 密封面锥角小于密封材料的摩擦角, 蝶板关闭到密封位置时立即实现自锁, 并能承受一定的反向压力冲击。

The hard-sealed three-bias eccentric wafer-type butterfly valve operates based on a three-bias structure design, where the axis of the valve stem, the sealing surface of the butterfly plate, and the axis of the valve body channel are offset by a certain amount. This design ensures that the butterfly plate does not have frictional contact with the valve seat during opening and closing, but instead directly presses against the valve seat, thereby guaranteeing the sealing performance and service life of the valve.

1. Three-bias structure: Ensures frictionless contact between the butterfly plate and the valve seat, improving sealing performance and service life.
2. Metal hard seal: The sealing ring is made of hard materials such as stainless steel, with excellent corrosion resistance and wear resistance.
3. Multi-level sealing structure: Further improves the sealing effect of the valve.
4. Electric actuator: Operates flexibly, saves effort, and is convenient, unaffected by the pressure of the medium.
5. Wafer connection method: Installation is simple and fast, suitable for the connection requirements of various pipeline systems.
6. Bidirectional sealing performance: The cone angle of the sealing surface is smaller than the friction angle of the sealing material. When the butterfly plate is closed to the sealing position, it immediately achieves self-locking, and can withstand certain reverse pressure impacts.

● **执行标准 Performance standard**

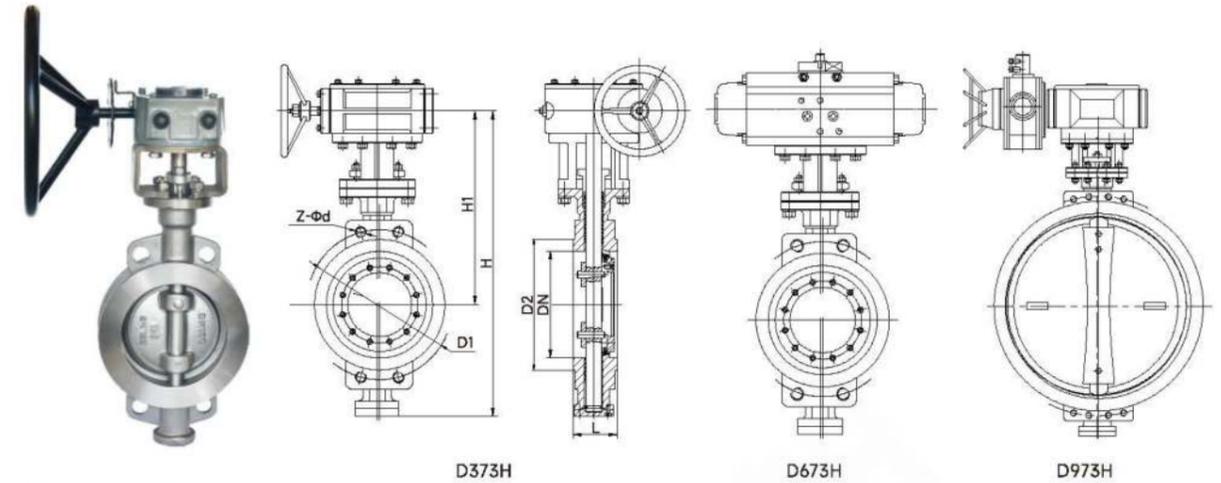
设计标准 Design Standard	JB/T8527
法兰连接尺寸 Flange Connection Dimension	GB/T9113、JB/T79.1、HG/T20592
结构长度 Face to Face Length	GB/T12221
压力试验 Pressure Test	GB/T13927

● **性能规范 Performance specification**

公称通径 Nominal Diameter	公称压力 Nominal Pressure	试验压力(MPa) Test Pressure			泄漏率 Leakage	适用温度 Applicable Temperature	适用介质 Applicable Media	驱动形式 Operation
DN(mm)	PN(MPa)	强度试验 Shell Test	密封试验 Seal Test	气密封试验 Air Sealing Test	$0.1 \times DN \text{ mm}^3/\text{s}$ (符合GB/T13927 According to Standard GB/T13927)	碳钢 Carbon steel: -29°C ~ 425°C 不锈钢 Stainless Steel: -40°C ~ 600°C	空气、水、蒸气、 煤气、油品以及酸、碱、 盐带有弱腐蚀性介质等 Air, Water, Steam Coal Gas, Oil and Acid, Alkali, Salt Corrosive Medium and so on.	蜗杆蜗轮传动、 气传动、 电传动 Lever Operator, Worm Gear Operator, Pneumatic Operator, Electric Operator
50 ~ 2000	0.6	0.9	0.66	0.6				
	1.0	1.5	1.1	0.6				
	1.6	2.4	1.76	0.6				
	2.5	3.75	2.75	0.6				
50 ~ 1200	4.0	6.0	4.4	0.6				

● **主要零部件材质 Materials of main parts**

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



● **主要外形尺寸和连接尺寸 Main shape size and connection size**

单位Unit: mm

DN (mm)	主要尺寸 Main Dimension				PN6			PN10			PN16		
	L1(短)	L2(长)	H	H1	D1	D2	Z-Φd	D1	D2	Z-Φd	D1	D2	Z-Φd
D373H/F、D673H/F、D973H/F													
50	43	43	272	200	110	90	4-14	125	102	4-18	125	102	4-18
65	46	46	335	225	130	110	4-14	145	122	4-18	145	122	4-18
80	49	64	355	240	150	128	4-18	160	138	4-18	160	138	4-18
100	56	64	385	255	170	148	4-18	180	158	4-18	180	158	4-18
125	64	70	455	305	200	178	4-18	210	188	4-18	210	188	4-18
150	70	76	490	325	225	202	4-18	240	212	4-22	240	212	4-22
200	71	89	590	380	280	258	4-18	295	268	4-22	295	268	4-22
250	76	114	655	410	335	312	4-18	350	320	4-22	355	320	4-26
300	83	114	740	460	395	365	4-22	400	370	4-22	410	378	4-26
350	92	127	840	525	445	415	4-22	460	430	4-M20	470	438	4-M24
400	102	140	890	545	495	465	4-M20	515	482	4-M24	525	490	4-M27
450	114	152	1010	630	550	520	4-M20	565	532	4-M24	585	550	4-M27
500	127	152	1065	650	600	570	4-M20	620	585	4-M24	650	610	4-M30
600	154	178	1140	680	705	670	4-M24	725	685	4-M27	770	725	4-M33
700	165	229	1268	780	810	775	4-M24	840	800	4-M27	840	795	4-M33
800	190	241	1432	860	920	880	4-M27	950	905	4-M30	950	900	4-M36
900	203	241	1528	900	1020	980	4-M27	1050	1005	4-M30	1050	1000	4-M36
1000	216	300	1698	1000	1120	1080	4-M27	1160	1110	4-M33	1170	1115	4-M39
1200	254	360	1910	1100	1340	1295	4-M30	1380	1330	4-M36	1390	1330	4-M45
1400	279	390	2140	1200	1560	1510	4-M33	1590	1535	4-M39	1590	1530	4-M45
1600	318	440	2420	1330	1760	1710	4-M33	1820	1760	4-M45	1820	1750	4-M52
DN (mm)	主要尺寸 Main Dimension				PN25			PN40			PN63		
50	43	43	272	200	125	102	4-18	125	102	4-18	135	102	4-22
65	46	46	335	225	145	122	4-18	145	122	4-18	160	122	4-22
80	49	64	355	240	160	138	4-18	160	138	4-18	170	138	4-22
100	56	64	385	255	190	162	4-22	190	162	4-22	200	162	4-26
125	64	70	455	305	220	188	4-26	220	188	4-26	240	188	4-30
150	70	76	490	325	250	218	4-26	250	218	4-26	280	218	4-33
200	71	89	590	380	310	278	4-26	320	285	4-M27	345	285	4-M33
250	76	114	655	410	370	335	4-30	385	345	4-M30	400	345	4-M33
300	83	114	740	460	430	395	4-M27	450	410	4-M30	460	410	4-M33
350	92	127	840	525	490	450	4-M30	510	465	4-M33	525	465	4-M36
400	102	140	890	545	550	505	4-M33	585	535	4-M36	585	535	4-M39
450	114	152	1010	630	600	555	4-M33	610	560	4-M36	-	-	-
500	127	152	1065	650	660	615	4-M33	670	615	4-M39	-	-	-
600	154	178	1140	680	770	720	4-M36	795	735	4-M45	-	-	-
700	165	229	1268	780	875	820	4-M39	-	-	-	-	-	-
800	190	241	1432	860	990	930	4-M45	-	-	-	-	-	-
900	203	241	1528	900	1090	1030	4-M45	-	-	-	-	-	-
1000	216	300	1698	1000	1210	1140	4-M52	-	-	-	-	-	-
1200	254	360	1910	1100	1420	1350	4-M52	-	-	-	-	-	-

LTD3/6/7/973H
凸耳式蝶阀
Lug Butterfly Valve

LTD3/6/7/973H
凸耳式蝶阀
Lug Butterfly Valve

● **产品概述及特点 Product overview and features**

凸耳式蝶阀的蝶板安装于管道的直径方向，在阀体圆柱形通道内，圆盘形蝶板绕着轴线旋转，旋转角度为 0°-90°，旋转到 90° 时阀门呈全开状态，通过旋转角度的不同来实现对介质的截断或流量调节。

- 1、便捷的安装与维护特性；
- 2、可靠的双向密封能力；
- 3、较强的承压与抗冲击性能；
- 4、灵活的驱动适配优势；
- 5、优异的材质适配与耐腐蚀性；
- 6、高效的启闭与调节性能。

The disc of the lug-type butterfly valve is installed in the diameter direction of the pipeline, within the cylindrical channel of the valve body. The disc-shaped butterfly plate rotates around the axis, with a rotation angle ranging from 0° to 90°. When rotated to 90°, the valve is in the fully open state. The different rotation angles can achieve the cutting of the medium or the regulation of the flow rate.

1. Convenient installation and maintenance features;
2. Reliable bidirectional sealing capability;
3. Strong pressure-bearing and impact resistance performance;
4. Flexible drive compatibility advantage;
5. Excellent material compatibility and corrosion resistance;
6. Efficient opening and closing and regulating performance.

● **执行标准 Performance standard**

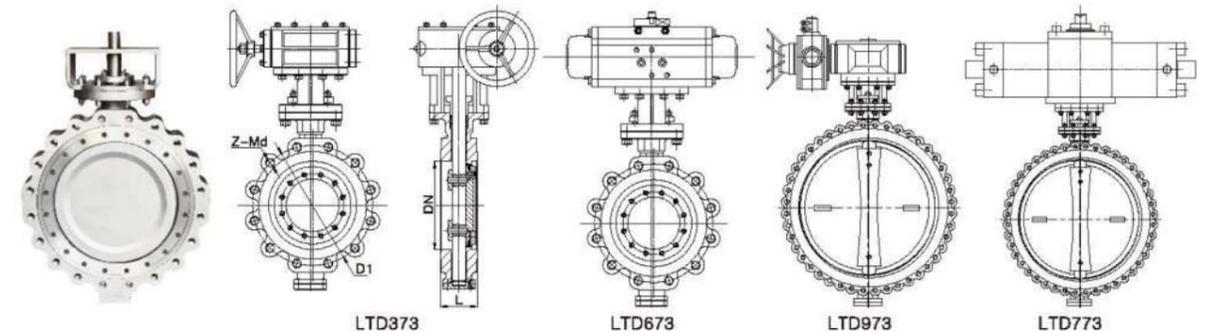
设计标准 Design Standard	JB/T8527
法兰连接尺寸 Flange Connection Dimension	GB/T9113、JB/T79.1、HG/T20592
结构长度 Face to Face Length	GB/T12221
压力试验 Pressure Test	GB/T13927

● **性能规范 Performance specification**

公称通径 Nominal Diameter	公称压力 Nominal Pressure	试验压力(MPa) Test Pressure			泄漏率 Leakage	适用温度 Applicable Temperature	适用介质 Applicable Media	驱动形式 Operation
DN(mm)	PN(MPa)	强度试验 Shell Test	密封试验 Seal Test	气密封试验 Air Sealing Test				
50~2000	0.6	0.9	0.66	0.6	<0.1 × DNmm ³ /s (符合GB/T13927-2008标准 According to Standard GB/T13927-2008)	碳钢 Carbon steel: -29°C ~ 425°C 不锈钢 Stainless Steel: -100°C ~ 800°C	空气、水、蒸气、煤油、油、品以及酸、碱、盐带有弱腐蚀性介质等 Air, Water, Steam, Coal Gas, Oil and Acid, Alkali, Salt Corrosive Medium and so on.	蜗杆蜗轮传动、气传动、电传动、液动传动 Lever Operator, Worm Gear Operator, Pneumatic Operator, Electric Operator, Hydraulic transmission
	1.0	1.5	1.1	0.6				
	1.6	2.4	1.76	0.6				
50~600	2.5	3.75	2.75	0.6				
	4.0	6.0	4.4	0.6				
50~400	6.3	9.5	7.0	0.6				
	10.0	14.4	10.6	0.6				
	15.0	20.9	15.3	0.6				

● **主要零部件材质 Materials of main parts**

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



● **主要外形尺寸和连接尺寸 Main shape size and connection size**

单位(Unit): mm

DN (mm)	结构长度 Structural length		PN6		PN10		PN16		PN25	
	L1	L2	D1	Z-Md	D1	Z-Md	D1	Z-Md	D1	Z-Md
50	43		110	4-M12	125	4-M16	125	4-M16	125	4-M16
65	46		130	4-M12	145	8-M16	145	8-M16	145	8-M16
80	49	64	150	4-M16	160	8-M16	160	8-M16	160	8-M16
100	56	64	170	4-M16	180	8-M16	180	8-M16	190	8-M20
125	64	70	200	8-M16	210	8-M16	210	8-M16	220	8-M24
150	70	76	225	8-M16	240	8-M20	240	8-M20	250	8-M24
200	71	89	280	8-M16	295	8-M20	295	12-M20	310	12-M24
250	76	114	335	12-M16	350	12-M20	355	12-M24	370	12-M27
300	83	114	395	12-M20	400	12-M20	410	12-M24	430	16-M27
350	92	127	445	12-M20	460	16-M20	470	16-M24	490	16-M30
400	102	140	495	16-M20	515	16-M24	525	16-M27	550	16-M33
450	114	152	550	16-M20	565	20-M24	585	20-M27	600	20-M33
500	127	152	600	20-M20	620	20-M24	650	20-M30	660	20-M33
600	154	178	705	20-M24	725	20-M27	770	20-M33	770	20-M36
700	165	229	810	24-M24	840	24-M27	840	24-M33	875	24-M39
800	190	241	920	24-M27	950	24-M30	950	24-M36	990	24-M45
900	203	241	1020	24-M27	1050	28-M30	1050	28-M36	1090	28-M45
1000	216	300	1120	28-M27	1160	28-M33	1170	28-M39	1210	28-M52
1200	254	360	1340	32-M30	1380	32-M36	1390	32-M45	1420	32-M52
1400	279	390	1560	36-M33	1590	36-M39	1590	36-M45	1640	36-M56
1600	318	440	1760	40-M33	1820	40-M45	1820	40-M52	1860	40-M56
1800	356	490	1970	44-M36	2020	44-M45	2020	44-M52	2070	44-M64
2000	406	540	2180	48-M39	2230	48-M45	2230	48-M56	2300	48-M64

DN (mm)	结构长度 Structural length		PN40		PN63		PN100	
	L1	L2	D1	Z-Md	D1	Z-Md	D1	Z-Md
50		43	125	4-M16	135	4-M20	145	4-M24
65		46	145	8-M16	160	8-M20	170	8-M24
80	49	64	160	8-M16	170	8-M20	180	8-M24
100	56	64	190	8-M20	200	8-M24	210	8-M27
125	64	70	220	8-M24	240	8-M27	250	8-M30
150	70	76	250	8-M24	280	8-M30	290	12-M30
200	71	89	320	12-M27	345	12-M33	360	12-M33
250	76	114	385	12-M30	400	12-M33	430	12-M36
300	83	114	450	16-M30	460	16-M33	500	16-M39
350	92	127	510	16-M33	525	16-M36	560	16-M45
400	102	140	585	16-M36	585	16-M39	620	16-M45
450	114	152	610	20-M36	-	-	-	-
500	127	152	670	20-M39	-	-	-	-
600	154	178	795	20-M45	-	-	-	-

D3/6/943H/Y
三偏心法兰式硬密封蝶阀
Three eccentric flange hard seal butterfly valve

D3/6/943H/Y
三偏心法兰式硬密封蝶阀
Three eccentric flange hard seal butterfly valve

● **产品概述及特点 Product overview and features**

蝶阀结构简单、体积小、重量轻，只由少数几个零件组成。而且只需旋转90°即可快速启闭，操作简单，同时该阀门具有良好的流体控制特性。蝶阀处于完全开启位置时，蝶板厚度是介质流经阀体时唯一的阻力，因此通过该阀门所产生的压力降很小，故具有较好的流量控制特性。蝶阀有弹性密封和金属的密封两种密封型式。弹性密封阀门，密封圈可以镶嵌在阀体上或附在蝶板周边。应用范围冶金、轻工、电力、煤气、水道等领域。

1. 优异的密封性能：硬密封三偏心蝶阀采用三维偏心原理设计，密封圈选用不锈钢制作，具有金属硬密封和弹性密封的双重优点，无论在低温和高温的情况下，均具有优良的密封性能，能够在高压、高温环境下保持良好的密封性能，减少泄漏风险。
2. 长寿命：由于密封副的独特设计，阀门在开关过程中摩擦较小，减少了密封面的磨损，从而延长了阀门的使用寿命。
3. 适用范围广：适用于各种流体介质，包括气体、液体，甚至是含有颗粒物的介质。这种特性使得它在石油、化工、冶金等行业中得到了广泛应用。
4. 快速开关：相比于其他类型的阀门，三偏心蝶阀的开关速度较快，能够在紧急情况下迅速切断或开启流体通道，提高系统的安全性。
5. 体积小、重量轻：相比于同规格的其他类型阀门，三偏心蝶阀的体积和重量都较小，便于安装和维护。

The butterfly valve has a simple structure, small size and light weight, consisting of only a few components. It can be quickly opened and closed by rotating 90°, and the operation is simple. At the same time, this valve has good fluid control characteristics. When the butterfly valve is in the fully open position, the thickness of the butterfly plate is the only resistance for the medium to flow through the valve body, so the pressure drop generated by this valve is very small, and thus it has good flow control characteristics. There are two sealing types for the butterfly valve: elastic sealing and metal sealing. For the elastic sealing valve, the sealing ring can be embedded in the valve body or attached around the butterfly plate. The application range covers fields such as metallurgy, light industry, power, gas, and waterways.

1. Excellent sealing performance: The hard-sealed three eccentric butterfly valve is designed based on the three-dimensional eccentric principle. The sealing ring is made of stainless steel and has the dual advantages of metal hard sealing and elastic sealing. Regardless of low or high temperatures, it has excellent sealing performance and can maintain good sealing performance in high-pressure and high-temperature environments, reducing the risk of leakage.
2. Long service life: Due to the unique design of the sealing pair, the valve has less friction during the opening and closing process, reducing the wear on the sealing surface, thereby extending the service life of the valve.
3. Wide application range: It is suitable for various fluid media, including gases, liquids, and even media containing particles. This characteristic makes it widely used in industries such as petroleum, chemical engineering, and metallurgy.
4. Quick opening and closing: Compared to other types of valves, the three eccentric butterfly valve has a faster opening and closing speed, which can quickly cut off or open the fluid channel in emergency situations, improving the safety of the system.
5. Small size and light weight: Compared to other types of valves of the same specification, the three eccentric butterfly valve has a smaller volume and weight, making it easier to install and maintain.

● **执行标准 Performance standard**

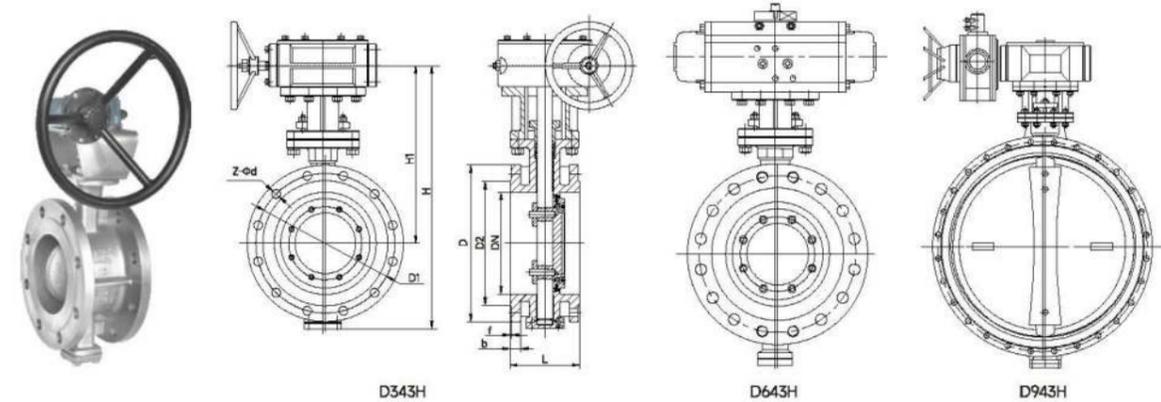
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法兰连接尺寸 Flange Connection Dimension	GB/T9113、JB/T79.1、HG/T20592
结构长度 Face to Face Length	GB/T12221
压力试验 Pressure Test	GB/T13927

● **性能规范 Performance specification**

公称通径 Nominal Diameter	公称压力 Nominal Pressure	试验压力(MPa) Test Pressure		气密封试验 Air Sealing Test	泄漏率 Leakage	适用温度 Applicable Temperature	适用介质 Applicable Media	驱动形式 Operation
DN(mm)	PN(MPa)	强度试验 Shell Test	密封试验 Seal Test					
50 ~ 2000	0.6	0.9	0.66	0.6	<0.1×DNmm³/s (符合GB/T13927 According to Standard GB/T13927)	碳钢 Carbon steel: -29°C ~ 425°C 不锈钢 Stainless Steel: -40°C ~ 600°C	空气、水、蒸汽、煤油、油品以及酸、碱、盐带有弱腐蚀性介质等 Air, Water, Steam, Coal Gas, Oil and Acid, Alkali, Salt Corrosive Medium and so on.	蜗杆蜗轮传动、气传动、电传动 Worm Gear Operator, Pneumatic Operator, Electric Operator
	1.0	1.5	1.1	0.6				
	1.6	2.4	1.76	0.6				
50 ~ 1200	4.0	6.0	4.4	0.6				

● **主要零部件材质 Materials of main parts**

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



● **主要外形尺寸和连接尺寸 Main shape size and connection size**

国际 GB/T9113 单位Unit: mm

DN (mm)	主要尺寸 Main Dimension				PN6					PN10					PN16					
	L1(短)	L2(长)	H	H1	D	D1	D2	Z-Φd	bxφ	D	D1	D2	Z-Φd	bxφ	D	D1	D2	Z-Φd	bxφ	
	D343H/F、D643H/F、D943H/F																			
50	108	150	275	200	140	110	90	4-14	14x3	165	125	102	4-18	18x3	165	125	102	4-18	18x3	
65	112	170	303	210	160	130	110	4-14	14x3	185	145	122	8*-18	18x3	185	145	122	8*-18	18x3	
80	114	180	324	226	190	150	128	4-18	16x3	200	160	138	8-18	20x3	200	160	138	8-18	20x3	
100	127	190	380	250	210	170	148	4-18	16x3	220	180	158	8-18	20x3	220	180	158	8-18	20x3	
125	140	200	460	295	240	200	178	8-18	18x3	250	210	188	8-18	22x3	250	210	188	8-18	22x3	
150	140	210	490	315	265	225	202	8-18	18x3	285	240	212	8-22	22x3	285	240	212	8-22	22x3	
200	152	230	600	380	320	280	258	8-18	20x3	340	295	268	8-22	24x3	340	295	268	12-22	24x3	
250	165	250	655	405	375	335	312	12-18	22x3	395	350	320	12-22	26x3	405	355	320	12-26	26x3	
300	178	270	780	480	440	395	365	12-22	22x4	445	400	370	12-22	26x4	460	410	378	12-26	28x4	
350	190	290	875	545	490	445	415	12-22	22x4	505	460	430	16-22	26x4	520	470	438	16-26	30x4	
400	216	310	910	550	540	495	465	16-22	22x4	565	515	482	16-26	26x4	580	525	490	16-30	32x4	
450	222	330	1000	620	595	550	520	16-22	22x4	615	565	532	20-26	28x4	640	585	550	20-30	40x4	
500	229	350	1090	680	645	600	570	20-22	24x4	670	620	585	20-26	28x4	715	650	610	20-33	44x4	
600	267	390	1210	750	755	705	670	20-26	30x5	780	725	685	20-30	34x5	840	770	725	20-36	54x5	
700	292	430	1350	820	860	810	775	24-26	22x4	855	805	800	24-30	34x5	910	840	795	24-36	40x5	
800	318	470	1520	910	975	920	880	24-30	26x5	1015	950	905	24-33	36x5	1025	950	900	24-39	42x5	
900	330	510	1570	930	1075	1020	980	24-30	26x5	1115	1050	1005	28-33	38x5	1125	1050	1000	28-39	44x5	
1000	410	550	1700	980	1175	1120	1080	28-30	28x5	1230	1160	1110	28-36	38x5	1255	1170	1115	28-42	46x5	
1200	470	630	2040	1220	1405	1340	1295	32-33	28x5	1455	1380	1330	32-39	44x5	1485	1390	1330	32-48	52x5	
1400	530	710	2240	1310	1630	1560	1510	36-36	32x5	1675	1590	1535	36-42	48x5	1685	1590	1530	36-48	58x5	
1600	600	790	2440	1460	1830	1760	1710	40-36	34x5	1915	1820	1760	40-48	52x5	1930	1820	1750	40-56	64x5	
1800	670	870	2650	1560	2045	1970	1920	44-39	36x5	2115	2020	1960	44-48	56x5	2130	2020	1950	44-56	68x5	
2000	760	950	2860	1670	2265	2180	2125	48-42	38x5	2325	2230	2170	48-48	60x5	2345	2230	2150	48-62	70x5	
DN (mm)	PN25				PN40					PN63					PN100					
50	165	125	102	4-Φ18	20x3	165	125	102	4-18	20x3	180	135	102	4-22	26x3	195	145	102	4-26	30x3
65	185	145	122	8-Φ18	22x3	185	145	122	8-18	22x3	205	160	122	8-22	26x3	220	170	122	8-26	34x3
80	200	160	138	8-Φ18	24x3	200	160	138	8-18	24x3	215	170	138	8-22	28x3	230	180	138	8-26	36x3
100	235	190	162	8-Φ22	24x3	235	190	162	8-22	24x3	250	200	162	8-26	30x3	265	210	162	8-30	40x3
125	270	220	188	8-Φ26	26x3	270	220	188	8-26	26x3	295	240	188	8-30	34x3	315	250	188	8-33	40x3
150	300	250	218	8-Φ26	28x3	300	250	218	8-26	28x3	345	280	218	8-33	36x3	355	290	218	12-33	44x3
200	360	310	278	12-Φ26	30x3	375	320	285	12-36	34x3	415	345	285	12-36	42x3	430	360	285	12-36	52x3
250	425	370	335	12-Φ30	32x3	450	385	345	12-33	38x3	470	400	345	12-36	46x3	505	430	345	12-39	60x3
300	485	430	395	16-Φ30	34x4	515	450	410	16-33	42x4	530	460	410	16-36	52x4	585	500	410	16-42	68x4
350	555	490	450	16-Φ33	38x4	580	510	465	16-36	46x4	600	525	465	16-39	56x4	655	560	465	16-48	74x4
400	620	550	505	16-Φ36	40x4	660	585	535	16-39	50x4	670	585	535	16-42	60x4	715	620	535	16-48	78x4
450	670	600	555	20-Φ36	46x4	685	610	560	20-39	57x4	735	645	560	20-39	64x4	-	-	-	-	-
500	730	660	615	20-Φ36	48x4	755	670	615	20-42	57x4	800	705	615	20-48	68x4	-	-	-	-	-
600	845	770	720	20-Φ39	58x5	890	795	735	20-48	72x5	930	820	735	20-56	76x5	-	-	-	-	-
700	960	875	820	24-Φ42	50x5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800	1085	990	930	24-Φ48	54x5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
900	1185	1090	1030	28-Φ48	58x5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1000	1320	1210	1140	28-Φ56	62x5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1200	1530	1420	1350	32-Φ56	70x5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1400	1755	1640	1560	36-Φ62	76x5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1600	1975	1860	1780	40-Φ62	84x5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1800	2195	2070	1985	44-Φ70	90x5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	2425	2300	2210	48-Φ70	96x5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

备注：本产品尺寸外观仅供参考，PN63-PN100结构长度按长系列，订货尺寸请具体核实。
Note: The size and appearance of this product are for reference only. The structural length of 6.3-10.0MPa is based on the length series. Please verify the specific ordering size.

高性能双偏心蝶阀

High performance double eccentric butterfly valve

产品概述 Product overview

高性能蝶阀是在吸收几种不同结构蝶阀优点的基础上设计而成的一种新型蝶阀。这种蝶阀的阀板密封面为一球弧面，密封机构通过系统压力达到一种真正的动态密封，因此有可靠的密封性能和耐久性能。其体积小，重量轻，制造范围广，易于维修保养。由于双偏心蝶阀的设计，配以单片挠性唇式密封座，适用于要求可靠密封和良好调节特性场合的阀门。可作快速切断或调节流量之用。

The high-performance butterfly valve is a new type of butterfly valve designed based on absorbing the advantages of several different structural butterfly valves. The sealing surface of the valve plate of this butterfly valve is a spherical arc surface. The sealing mechanism achieves a true dynamic seal through system pressure, thus having reliable sealing performance and durability. It is small in size, light in weight, has a wide manufacturing range, and is easy to maintain and repair. Due to the design of double eccentric butterfly plate, combined with a single piece of flexible lip-shaped sealing seat, it is suitable for valves requiring reliable sealing and good regulating characteristics. It can be used for quick shut-off or regulating flow.

执行标准 Performance standard

法兰标准 Flange standard	HG20592-PN10-25, ANSI16.5, 150LB, JIS 10-16K
结构长度 Structural length	GB12221, API609

性能规范 Performance specification

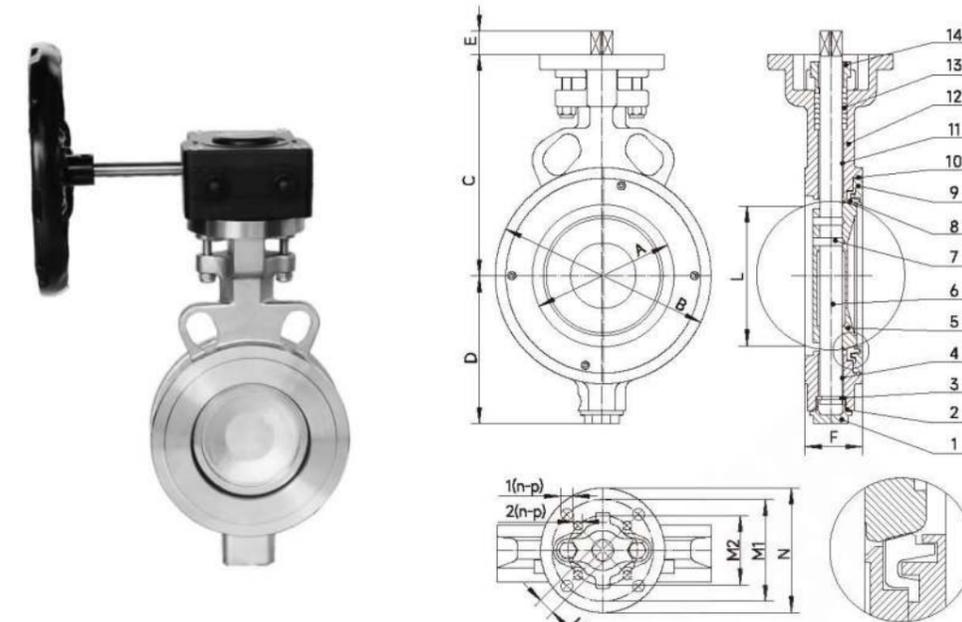
公称压力 Nominal Pressure (MPa)	试验压力(MPa) Test Pressure (MPa)			适用温度 Applicable Temperature	适用介质 Applicable Medium
	壳体试验 Shell Test	高压密封 High Pressure Seal	低压密封 Low Pressure Seal		
CLASS150	3.0	2.2	0.6	-29 ~ 425°C	水、蒸汽、油品、海水等 Water, Steam, Oil, Seawater.
CLASS300	7.5	5.5	0.6		
CLASS600	15.0	11.0	0.6		

主要零部件材质 Materials of main parts

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, CZ100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M35-2, M35C, M30H, N04400, N05500
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy C-4, Hastelloy G, Hastelloy G30 N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030

高性能双偏心对夹蝶阀

High performance double eccentric butterfly valve



主要外形尺寸和连接尺寸 Main shape size and connection size

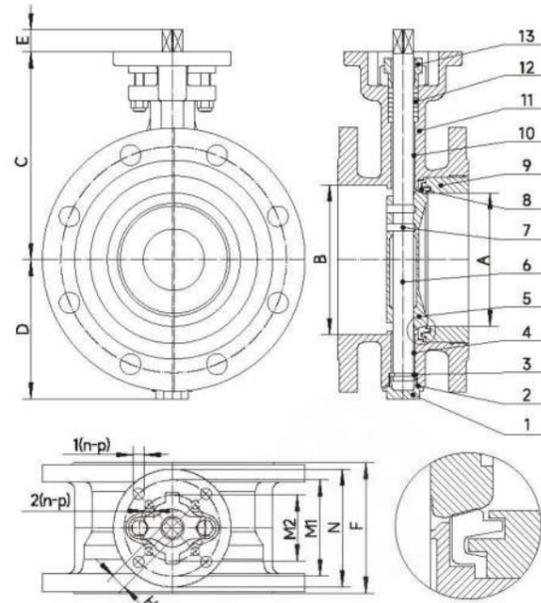
(单位 Unit: mm)

DN	inch	ΦA	ΦB	C	D	E	F	ΦL	H	ΦN	ΦM1	1-(n-φp)	可定制尺寸		安装平台 ISO5211
													ΦM2	2-(n-φp)	
50	2"	47	100	133	82	16	43	43	11	90	70	4-Φ10	50	4-Φ7	F05, F07
65	2.5"	64	120	148	96	16	46	65	11	90	70	4-Φ10	50	4-Φ7	F05, F07
80	3"	77	132	158	103	16	46	78	11	90	70	4-Φ10	50	4-Φ7	F05, F07
100	4"	95	157	180	118	20	52	97	14	92	70	4-Φ10	-	-	F07
125	5"	119	188	199	133	20	56	128	14	95	70	4-Φ10	-	-	F07
150	6"	142	216	223	148	23	57	143	17	125	102	4-Φ12	70	4-Φ10	F07, F10
200	8"	188	268	260	182	25	62	190	19	125	102	4-Φ12	-	-	F10
250	10"	237	323	295	242	28	68	235	22	150	125	4-Φ14	102	4-Φ12	F10, F12
300	12"	283	375	338	280	30	78	280	27	165	140	4-Φ18	125	4-Φ14	F12, F14
350	14"	321	420	370	308	35	92	315	27	195	165	4-Φ22	140	4-Φ18	F14, F16
400	16"	371	475	405	340	38	102	365	36	200	165	4-Φ22	-	-	F16
450	18"	422	533	445	375	50	114	410	36	200	165	4-Φ22	-	-	F16
500	20"	471	585	482	415	50	127	457	46	220	165	4-Φ22	-	-	F16
600	24"	562	692	557	470	55	154	542	46	240/280	165	4-Φ22	254	8-Φ18	F16, F25

高性能双偏心法兰蝶阀

High performance double eccentric flange butterfly valve

蝶阀系列
Butterfly valve series



●主要外形尺寸和连接尺寸 Main shape size and connection size

(单位 Unit: mm)

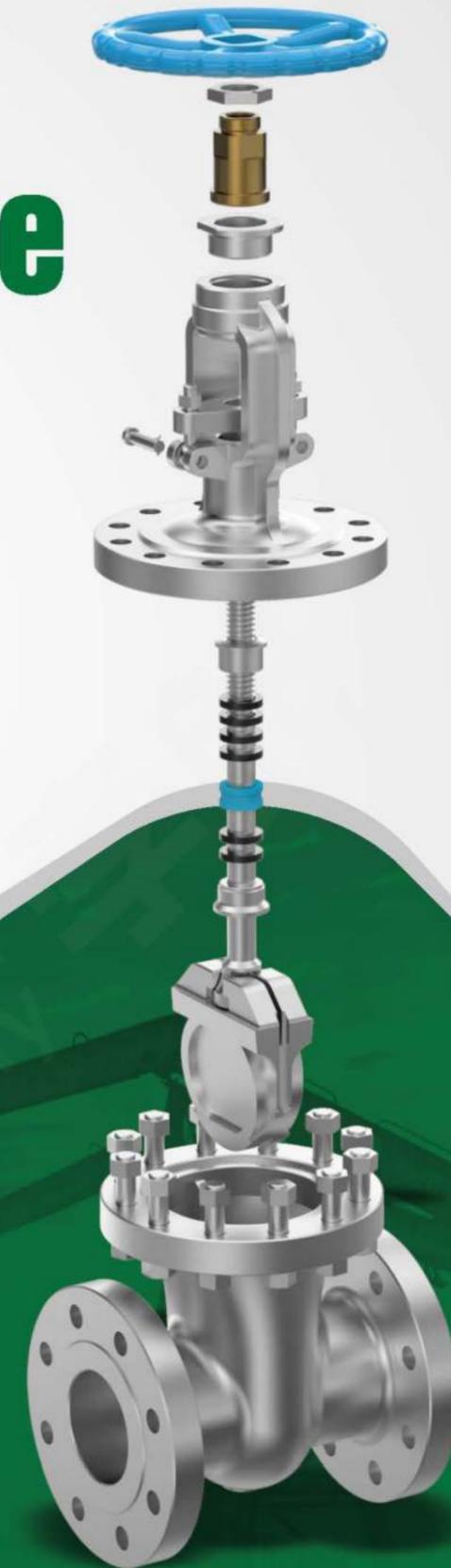
DN	inch	ΦA	ΦB	C	D	E	F	H	ΦN	ΦM1	1-(n-Φp)	可定制尺寸		安装平台 ISO5211
												ΦM2	2-(n-Φp)	
50	2"	47	60	133	82	16	108	11	90	70	4-Φ10	50	4-Φ8	F05、F07
65	2.5"	64	78	148	96	16	112	11	90	70	4-Φ10	50	4-Φ8	F05、F07
80	3"	77	90	158	103	16	114	11	90	70	4-Φ10	50	4-Φ8	F05、F07
100	4"	95	113	180	118	20	127	14	92	70	4-Φ10	-	-	F07
125	5"	119	137	199	133	20	140	14	95	70	4-Φ10	-	-	F07
150	6"	142	159	223	148	23	140	17	125	102	4-Φ12	70	4-Φ10	F07、F10
200	8"	188	210	260	182	25	152	19	125	102	4-Φ12	-	-	F10
250	10"	250	260	295	242	28	165	22	150	125	4-Φ14	102	4-Φ12	F10、F12
300	12"	300	310	338	280	30	178	27	165	140	4-Φ18	125	4-Φ14	F12、F14
350	14"	340	360	370	308	35	190	27	195	165	4-Φ22	140	4-Φ18	F14、F16
400	16"	390	410	405	340	38	216	36	200	165	4-Φ22	-	-	F16
450	18"	438	465	445	375	50	222	36	200	165	4-Φ22	-	-	F16
500	20"	490	515	482	415	50	229	46	220	165	4-Φ22	-	-	F16
600	24"	578	610	557	470	55	267	46	240/ 280	165	4-Φ22	254	8-Φ18	F16、F25

BOLON 李朗
Company

Gate Valve series

闸阀系列

BOLON FLUID CONTROL (ZHEJIANG) CO., LTD.



Z41H
法兰闸阀
Flange ball valve

Z41H
法兰闸阀
Flange ball valve

● **产品概述及特点 Product overview and features**

闸阀具有流体阻力小, 密封面受冲击侵蚀小, 不改变介质流向, 不扰流, 压降小等特点, 适用的压力、温度范围广, 是一种常见的截断阀, 广泛适用于石油、化工、火力发电厂等油品、水蒸汽管路上接通或截断管路中的介质。(不可做节流阀使用)

1. 结构紧凑、设计合理, 阀门刚性好, 通道流畅, 流阻系数小。
2. 密封面采用不锈钢和硬质合金, 使用寿命长。
3. 采用柔性石墨填料, 密封可靠, 操作轻便灵活。
4. 驱动方式分手动、电动、气动、齿轮传动; 结构型式为弹性楔式单阀、刚性楔式单闸板和双闸板型式。
5. 广泛应用于石油、化工、火力发电厂等油品、水、蒸汽管路上接通或截断管路中介质的启闭装置。

The gate valve has the characteristics of low fluid resistance, small impact and erosion on the sealing surface, no change in the direction of the medium flow, no disturbance to the flow, and low pressure drop. It has a wide range of applicable pressure and temperature, and is a common shut-off valve. It is widely used in oil pipelines and steam pipelines in petroleum, chemical, and thermal power plants to connect or cut off the medium in the pipeline. (It cannot be used as a throttle valve)

1. Compact structure, reasonable design, good valve rigidity, smooth channel, small flow resistance coefficient.
2. The sealing surface is made of stainless steel and hard alloy, with a long service life.
3. Using flexible graphite packing, the sealing is reliable, and the operation is light and flexible.
4. The driving methods include manual, electric, pneumatic, and gear transmission; the structural types are elastic wedge type single valve, rigid wedge type single gate plate, and double gate plate type.
5. Widely used in oil, water, and steam pipelines in petroleum, chemical, and thermal power plants as a device for connecting or cutting off the medium in the pipeline.

● **执行标准 Performance standard**

设计与制造 Design and manufacturing	结构长度 Face to face dimension	连接形式 Type of connection	压力-温度 Pressure temperature	检验与试验 Inspection and test	产品标识 Product identification
GB/T12234	GB/T12221	GB/T9113、JB/T79、HG20592	GB/T12224	GB/T13927	GB/T12220

● **性能规范 Performance specification**

1. 试验压力 Test pressure

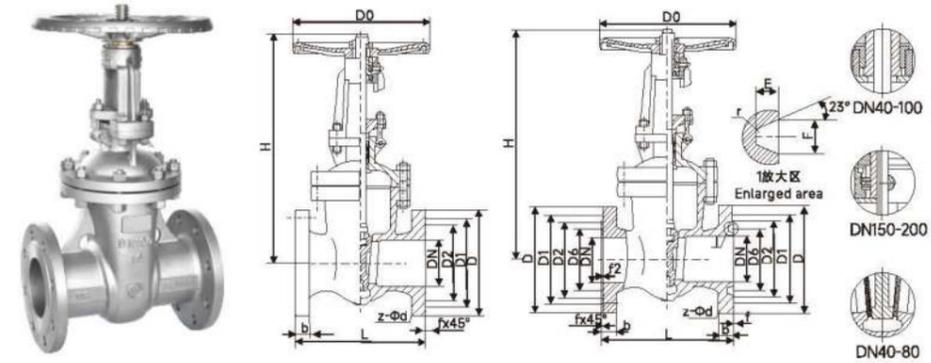
公称压力 PN(MPa) Nominal pressure	试验压力 (MPa) Test pressure				驱动形式 Driving form
	壳体 Shell	密封(液) Seal (liquid)	密封(气) Seal (gas)	上密封 Back seal	
1.0	1.5	1.1	0.6	1.1	手动、 蜗轮、 气动、 电动 Manual Worm gear Pneumatic Electric
1.6	2.4	1.8		1.8	
2.5	3.8	2.8		2.8	
4.0	6.0	4.4		4.4	
6.4	9.6	7.0		7.0	
10.0	15.0	11.0		11.0	
16.0	24.0	18.0	18.0		

2. 阀体材料及适用范围 Body material and Application

产品型号 Product model	阀体材质 Body material	适用介质 Applicable medium	工作温度(°C) Working temperature
Z4 ⁰ H-16、25、40、64、100、160	碳素钢 Carbon steel	水、蒸汽、 油品 Water, steam, oil	≤425
Z4 ⁰ W-16P、25P、40P、64P、100P、160P	铬镍钛钢 Chromium nickel steel	硝酸类 Nitric acid	≤200
Z4 ⁰ W-16R、25R、40R、64R、100R、160R	铬镍钼钛钢 Cr, ni, mo, ti steel	硝酸类 Nitric acid	≤200
Z4 ⁰ Y-16I、25I、40I、64I、100I、160I	铬钼钢 Cr Mo steel	水、蒸汽、 油品 Water, steam, oil	≤550

● **主要零部件材质 Materials of main parts**

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、C2100、Nickel 200、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



● **主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions**

单位Unit:mm

DN	L	D	D1	D2	b	f	z-Φd	H	D0
PN10									
40	165	145	110	85	16	3	4-18	255	160
50	180	160	125	100	16	3	4-18	286	180
65	195	180	145	120	18	3	4-18	331	180
80	210	195	160	135	18	3	4-18	375	200
100	230	215	180	155	20	3	8-18	430	200
125	255	245	210	185	22	3	8-18	523	240
150	280	280	240	210	22	3	8-23	592	240
200	330	335	295	265	22	3	8-23	760	320
250	380	390	350	320	24	3	12-23	890	320
300	420	440	400	368	26	4	12-23	1030	400
350	450	500	460	428	26	4	16-23	1173	400
400	480	565	515	482	26	4	16-25	1345	500
450	510	615	565	532	26	4	20-25	1500	500
500	540	670	620	585	28	4	20-25	1780	720
600	600	780	725	685	28	5	20-30	2010	720
700	660	895	840	800	30	5	24-30	2550	800
800	720	1010	950	905	32	-	24-34	2940	950
900	780	1110	1050	1005	34	-	28-34	3200	1000
1000	840	1220	1160	1115	34	-	28-34	3418	1000
1200	960	1450	1380	1325	38	-	32-41	3919	1000
1400	1015	1675	1590	1525	48	-	36-42	4950	1000
PN16									
15	130	95	65	45	16	2	4-14	220	120
20	150	105	75	55	18	2	4-14	255	140
25	160	115	85	65	18	2	4-14	275	160
32	180	140	100	78	18	2	4-18	280	180
40	200	150	110	85	18	3	4-18	300	200
50	250	165	125	100	18	3	4-18	358	240
65	265	185	145	120	18	3	8-18	375	240
80	280	200	160	135	20	3	8-18	433	280
100	300	220	180	155	20	3	8-18	502	300
125	325	250	210	185	22	3	8-18	612	320
150	350	285	240	210	22	3	8-22	676	320
200	400	340	295	265	24	3	12-22	820	400
250	450	405	355	320	26	3	12-26	969	450
300	500	460	410	375	28	3	12-26	1142	500
350	550	520	470	435	30	4	16-26	1280	500
400	600	580	525	485	32	4	16-30	1452	560
450	650	640	585	545	40	4	20-30	1541	600
500	700	715	650	608	44	4	20-33	1676	600
600	800	840	770	718	54	5	20-36	1874	720
700	900	910	840	788	58	5	24-36	2139	800
800	1000	1025	950	898	62	5	24-39	2293	950
900	1100	1125	1050	998	64	5	28-39	2595	1000
1000	1200	1255	1170	1110	68	5	28-42	2733	1000
1200	1350	1485	1390	1325	78	5	32-48	3032	1000

Z41H
法兰闸阀
Flange ball valve

Z41H
法兰闸阀
Flange ball valve

●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions 单位Unit:mm

DN	L	D	D1	D2	b	f	z-Φd	H	H1	D0
PN25										
15	130	95	65	45	16	2	4-14	220	240	120
20	150	105	75	55	18	2	4-14	255	284	140
25	160	115	85	65	18	2	4-14	275	303	160
32	180	140	100	78	18	2	4-18	280	321	180
40	200	150	110	85	18	3	4-18	300	352	200
50	250	165	125	100	20	3	4-18	358	438	240
65	265	185	145	120	22	3	8-18	375	450	240
80	280	200	160	135	24	3	8-18	433	528	280
100	300	235	190	160	24	3	8-22	502	620	300
125	325	270	220	188	26	3	8-26	612	753	320
150	350	300	250	218	28	3	8-26	676	847	320
200	400	360	310	278	30	3	12-26	820	1039	400
250	450	425	370	332	32	3	12-30	969	1245	450
300	500	485	430	390	34	4	16-30	1142	1472	500
350	550	555	490	448	38	4	16-33	1280	1450	500
400	600	620	550	505	40	4	16-36	1452	1887	560
450	650	670	600	555	46	4	20-36	1541	2011	600
500	700	730	660	610	48	4	20-36	1676	2181	640
600	800	845	770	718	58	5	20-39	1874	2346	720
700	900	960	875	815	60	5	24-42	2083	2517	800
800	1000	1085	990	930	66	5	24-48	2400	2890	950
900	1100	1185	1090	1025	70	5	28-48	2950	3316	1000
1000	1200	1320	1210	1140	74	5	28-56	3245	3600	1000
1400	1080	1750	1640	1560	92	-	36-62	5020	-	1000

●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions 单位Unit:mm

DN	L	D	D1	D2	D6	b	f	f2	z-Φd	H	H1	D0
PN40												
15	130	95	65	45	40	16	2	4	4-14	256	285	120
20	150	105	75	55	51	16	2	4	4-14	275	305	140
25	160	115	85	65	58	16	2	4	4-14	287	322	140
32	180	135	100	78	66	18	2	4	4-18	323	369	180
40	200	145	110	85	76	18	3	4	4-18	372	440	180
50	250	160	125	100	88	20	3	4	4-18	395	473	240
65	280	180	145	120	110	22	3	4	8-18	457	552	280
80	310	195	160	135	121	22	3	4	8-18	552	671	300
100	350	230	190	160	150	24	3	4.5	8-22	634	726	320
125	400	270	220	188	176	28	3	4.5	8-26	708	883	350
150	450	300	250	218	204	30	3	4.5	8-26	858	1086	400
200	550	375	320	282	260	38	3	4.5	12-30	1015	1298	450
250	650	445	385	345	313	42	3	4.5	12-33	1203	1535	560
300	750	510	450	408	364	46	4	4.5	16-33	1341	1678	640
350	850	570	510	465	422	52	4	5	16-36	1492	1903	640
400	950	655	585	535	474	58	4	5	16-39	1495	-	720
450	1050	680	610	560	524	60	4	5	20-39	1581	-	800
500	1150	755	670	612	576	62	4	5	20-42	1790	-	950
600	1350	890	795	730	676/678	62	5	6	20-48	2035	-	950
700	1450	955	900	835	768/778	68	5	6	24-54	2525	-	950
800	1650	1135	1030	960	876/883	76	5	6	24-58	2980	-	950

●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions 单位Unit:mm

DN	L	D	D1	D2	D6	b	f	f2	z-Φd	H	H1	D0
PN64												
15	170	105	75	55	40	18	2	-	4-14	-	-	-
20	190	125	90	68	51	20	2	4	4-18	258	288	160
25	210	135	100	78	58	22	2	4	4-18	310	341	160
32	230	150	110	82	66	24	2	4	4-22	320	353	200
40	240	165	125	95	76	24	2	4	4-22	360	389	200
50	250	175	135	105	88	26	3	4	4-22	372	448	240
65	280	200	160	130	110	28	3	4	8-22	395	475	240
80	310	210	170	140	121	30	3	4	8-22	458	553	280
100	350	250	200	168	150	32	3	4.5	8-26	553	679	300
125	400	295	240	202	176	36	3	4.5	8-30	638	779	300
150	450	340	280	240	204	38	3	4.5	8-33	718	893	350
200	550	405	345	300	260	44	3	4.5	12-36	873	1100	400
250	650	470	400	352	313	48	3	4.5	12-36	1053	1332	450
300	750	530	460	412	364	54	4	4.5	16-36	1203	1535	560
350	850	595	525	475	422	60	4	-	16-39	1394	-	640
400	950	670	585	525	474	66	4	-	16-42	1645	-	720
450	1050	715	630	570	524	70	4	-	20-48	2285	-	800
500	1150	800	705	640	576	70	4	-	20-54	2610	-	950
600	1350	930	820	750	676/678	76	5	-	20-58	-	-	950
PN100												
15	170	105	75	55	40	20	2	-	4-14	-	-	160
20	190	135	90	68	51	22	2	-	4-18	-	-	160
25	210	135	100	78	58	24	2	4	4-18	310	341	180
32	230	150	110	82	66	24	2	4	4-22	320	353	200
40	240	165	125	95	76	26	3	4	4-22	360	389	200
50	250	195	145	112	88	28	3	4	4-26	490	558	240
65	280	220	170	138	110	32	3	4	8-26	540	622	240
80	310	230	180	148	121	34	3	4	8-26	573	671	280
100	350	265	210	172	150	38	3	4.5	8-30	575	671	320
125	400	310	250	210	176	42	3	4.5	8-33	744	892	360
150	450	350	290	250	204	46	3	4.5	12-33	800	972	400
200	550	430	360	312	260	54	3	4.5	12-36	800	972	500
250	650	500	430	382	313	60	3	4.5	12-39	1050	1305	640
300	750	585	500	442	364	70	4	4.5	16-42	1208	1506	720
350	850	655	560	498	422	76	4	-	16-48	-	-	720
400	950	715	620	558	474	80	4	-	16-54	-	-	800
450	1050	770	675	615	-	84	4	-	16-58	-	-	-
500	1150	870	760	690	-	90	5	-	20-58	-	-	-
PN160												
15	170	110	75	52	35	20	2	4	4-14	230	250	160
20	190	130	90	62	45	24	2	4	4-18	260	288	180
25	210	140	100	72	50	24	2	4	4-18	280	310	200
32	230	165	115	85	65	28	2	4	4-22	312	350	200
40	260	175	125	92	75	28	3	4	4-22	350	395	240
50	300	215	165	132	95	30	3	4	8-26	512	612	280
65	340	245	190	152	110	34	3	4	8-26	560	677	320
80	390	260	205	168	130	36	3	4	8-26	585	686	350
100	450	300	240	200	160	40	3	4.5	8-30	631	751	400
125	525	355	285	238	190	44	3	4.5	8-33	723	868	500
150	600	390	318	270	205	66	3	4.5	12-36	820	997	560
200	750	480	400	345	275	78	3	4.5	12-39	990	1224	720
250	850	580	485	425	-	88	-	-	12-42	1104	1503	800
300	950	665	570	510	-	100	-	-	16-48	1314	1934	800
350	-	640	559	424	-	86	-	-	20-42	1600	2315	-
400	-	705	616	487	-	89	-	-	20-45	1823	2660	-

PZ73F/H
明杆刀型闸阀
Rising Stem Knife Gate Valve

PZ73F/H
明杆刀型闸阀
Rising Stem Knife Gate Valve

● **产品概述及特点 Product overview and features**

PZ73H手动刀闸阀采用对夹连接采用刀型闸板结构, 也叫做刀型闸阀。安装距离短、重量轻适合长纤维、颗粒性介质。这种耐磨刀闸阀广泛应用于各种工业领域, 特别是采矿、钢铁工业—用于煤炭、滤渣浆, 净化装置—用于废水、泥浆、污物及带有悬浮物的澄清水, 造纸工业—用于任何浓度纸浆、料水混合物、电站除灰硅粉、灰渣浆液等专业管道系统。

1. 结构简单、造型美观、全通径流道、流阻系数小。闸板提升时, 同时将密封面上的粘物给刮除, 自动清除了杂物。
2. 刀闸阀主要由阀体和闸板组成, 设计紧凑, 有效支撑管道强度。
3. 闸阀底部为U型锋利刀口, 可刮去密封件上的浊度, 可快速切断流体介质。
4. 闸板表面经过精磨抛光处理, 达到更好的密封效果, 也有效保护了填料和阀座的使用寿命。

The PZ73H manual knife gate valve adopts a flange connection and a knife-shaped gate plate structure, also known as a knife-shaped gate valve. It has a short installation distance and is lightweight making it suitable for long fibers and granular media. This wear-resistant knife gate valve is widely used in various industrial fields, especially in mining and steel industries - for coal, filter residue slurry, purification devices - for wastewater, slurry, waste, and clear water with suspended solids, paper industry - for any concentration pulp, material water mixtures, power plant ash silica powder, ash and slag slurry, etc. in professional pipeline systems.

1. The structure is simple, the shape is beautiful, the full diameter flow channel, and the flow resistance coefficient is small. When the gate plate is lifted, the adhered substances on the sealing surface are scraped off at the same time, automatically clearing the debris.
2. The knife gate valve mainly consists of the valve body and the gate plate. It is designed compactly and effectively supports the strength of the pipeline.
3. The bottom of the gate valve is a U-shaped sharp knife edge, which can scrape off the turbidity on the sealing element and quickly cut off the fluid medium.
4. The surface of the gate plate is polished and ground to achieve better sealing effect, and also effectively protects the packing and valve seat service life.

● **执行标准 Performance standard**

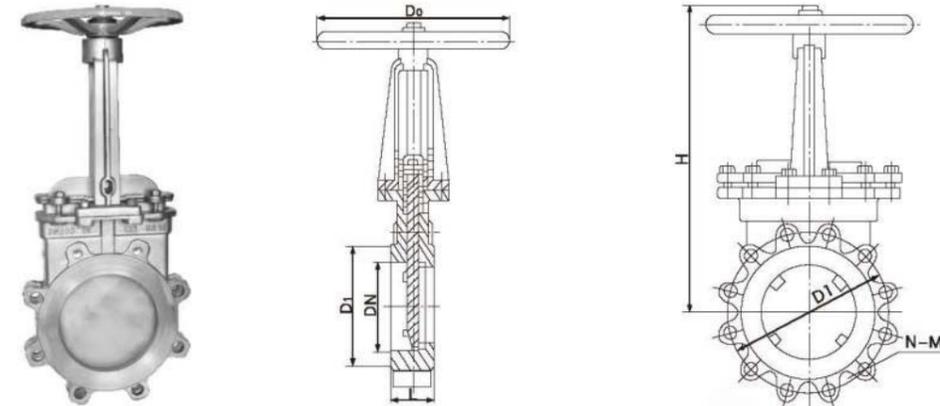
设计与制造 Design and manufacturing	结构长度 Face to face dimension	法兰连接 Flange connection	检验与试验 Inspection and test
JB/T8691	GB/T12221	GB/T9113	GB/T13927

● **性能规范 Performance specification**

公称压力 (MPa) Nominal pressure	壳体试验 压力(MPa) Shell test pressure	密封试验 压力(MPa) pressure sealing test pressure	工作 温度 Working temperature	适用 介质 Applicable medium	驱动形式 Driving form
1.0	1.5	1.1	橡胶≤80°C 四氟密封 ≤180°C 硬密封 ≤425°C	糖浆、纸浆、 污水、 煤浆、灰 渣水混合物 Syrup, pulp, sewage, coal slurry, ash, slag and water mixture	手动、 蜗轮、 气动、 电动 Manual, Worm gear Pneumatic, Electric
1.6	2.4	1.76			
2.5	3.75	2.75			
4.0	6.0	4.4			

● **主要零部件材质 Materials of main parts**

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200.、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



● **主要外形尺寸和连接尺寸 Main shape size and connection size**

单位Unit: mm

DN(mm)	L	D	D1	D2	H	N-M	D0
50	50	160	125	100	285	4 - M16	180
65	50	180	145	120	298	4 - M16	180
80	50	195	160	135	315	4 - M16	220
100	50	215	180	155	365	8 - M16	220
125	50	245	210	185	400	8 - M16	230
150	60	280	240	210	475	8 - M20	280
200	60	335	295	265	540	8 - M20	360
250	70	390	350	320	630	12 - M20	360
300	80	440	400	368	780	12 - M20	400
350	90	500	460	428	885	16 - M20	400
400	100	565	515	482	990	16 - M22	400
450	120	615	565	532	1100	20 - M22	530
500	130	670	620	585	1200	20 - M22	530
600	140	780	725	685	1450	20 - M27	600
700	160	895	840	800	1700	24 - M27	600
800	160	1010	950	905	2000	24 - M30	680
900	160	1110	1050	1005	2300	28 - M30	680

备注: 本产品尺寸外观仅供参考, 订货尺寸请具体核实。
Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

DMZ43F/H
暗杆刀型闸阀
Non rising stem knife type gate valve

DMZ43F/H
暗杆刀型闸阀
Non rising stem knife type gate valve

●产品概述及特点Product overview and features

暗杆刀形闸阀是闸阀中的新品种，体积小，重量轻，轻省节材，是污水、煤浆、糖浆、泥浆、空气、渣水混合物、供水、造纸、矿山等行业中的理想产品。刀形闸阀采用金属对金属的硬密封，或采用金属对橡胶的软密封，软密封可在煤气介质上使用。在开启和关闭的过程中，闸板与密封面采用了特殊的设计，摩擦较少，经久耐用。

1. 暗杆刀形闸阀的上密封突破了常规的密封形式，采用上盖结构，使得上密封由大面积的矩形密封改成了小面积的圆周密封，密封性能大大提高。
2. 在圆周密封的基础上，又采用了浮动密封改成了面积的圆周密封，再次提高密封性能。
3. 阀座密封面可免受介质冲刷，密封面受压均匀、贴合严密。
4. 在关闭过程中可将阀座密封面上的尘粒、焦油等刮走以及排污方便、防止介质外泄等优点，也适宜在含粉尘或焦油的煤气管线中使用。

The concealed stem knife-shaped gate valve is a new type of gate valve. It is small in size, light in weight, and lightweight with material saving. It is an ideal product for industries such as sewage, coal slurry, syrup, slurry, air, mixed substances of slag water, water supply, papermaking, and mining. The knife-shaped gate valve adopts metal-to-metal hard sealing or metal-to-rubber soft sealing. The soft sealing can be used in gas media. During the opening and closing process, the gate plate and the sealing surface have a special design, resulting in less friction and durability.

1. The upper seal of the concealed stem knife gate valve breaks through the conventional sealing form. It adopts an upper cover structure, which changes the large-area rectangular seal of the upper seal to a small-area circular seal, significantly improving the sealing performance.
2. On the basis of the circular seal, a floating seal is adopted to change it into an area circular seal, further improving the sealing performance.
3. The valve seat sealing surface is protected from medium erosion. The sealing surface is uniformly and tightly compressed under pressure.
4. During the closing process, it can remove dust, tar, and other particles on the valve seat sealing surface, facilitate sewage discharge, and prevent medium leakage. These advantages are also suitable for use in gas pipelines containing dust or tar.

●执行标准 Performance standard

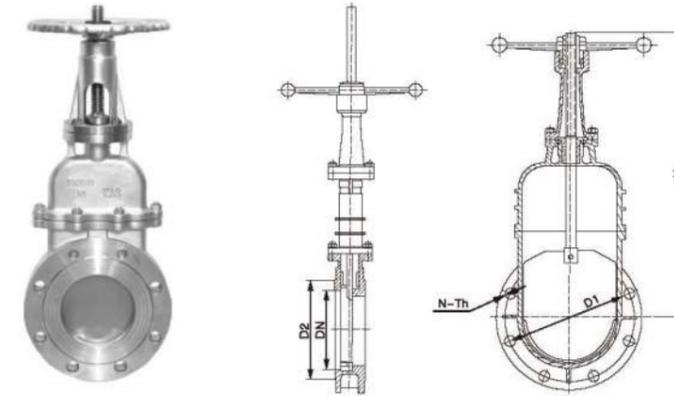
设计与制造 Design and manufacturing	结构长度 Face to face dimension	法兰连接 Flange connection	检验与试验 Inspection and test
JB/T8691	GB/T12221	GB/T9113	GB/T13927

●性能规范 Performance specification

公称压力 (MPa) Nominal pressure	壳体试验 压力(MPa) Shell test pressure	密封试验 压力(MPa) pressure sealing test pressure	工作温度 Working temperature	适用介质 Applicable medium	驱动形式 Driving form
1.0	1.5	1.1	橡胶≤80°C 四氟密封 ≤180°C 硬密封 ≤425°C	糖浆、纸浆、 污水、 煤浆、灰、 渣水混合物 Syrup, pulp, sewage, coal slurry, ash, slag and water mixture	手动、 蜗轮、 气动、 电动 Manual, Worm gear Pneumatic, Electric
1.6	2.4	1.76			
2.5	3.75	2.75			
4.0	6.0	4.4			

●主要零部件材质 Materials of main parts

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, CZ100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M35-2, M35C, M30H, N04400, N05500
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy C-4, Hastelloy G, Hastelloy G30 N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030



●主要外形尺寸和连接尺寸Main shape size and connection size

单位Unit: mm

DN(mm)	L	D	D1	D2	H	N-M	D0
	PN10						
50	50	160	125	100	285	4 - M16	180
65	50	180	145	120	298	4 - M16	180
80	50	195	160	135	315	4 - M16	220
100	50	215	180	155	365	8 - M16	220
125	50	245	210	185	400	8 - M16	230
150	60	280	240	210	475	8 - M20	280
200	60	335	295	265	540	8 - M20	360
250	70	390	350	320	630	12 - M20	360
300	80	440	400	368	780	12 - M20	400
350	90	500	460	428	885	16 - M20	400
400	100	565	515	482	990	16 - M22	400
450	120	615	565	532	1100	20 - M22	530
500	130	670	620	585	1200	20 - M22	530
600	140	780	725	685	1450	20 - M27	600
700	160	895	840	800	1700	24 - M27	600
800	160	1010	950	905	2000	24 - M30	680
900	160	1110	1050	1005	2300	28 - M30	680

备注：本产品尺寸外观仅供参考，订货尺寸请具体核实。
Note: The size and appearance of this product are for reference only.
Please verify the order size specifically.

Z11、Z61、Z41H

锻钢闸阀

Forged steel gate valve

Z11、Z61、Z41H

锻钢闸阀

Forged steel gate valve

●产品概述及特点 Product overview and features

锻钢闸阀有三种阀盖设计形式。第一种是螺栓式阀盖，按这种设计形式设计的阀门，其阀体与阀盖用螺栓连接，缠绕式垫片(304夹柔性石墨制造)或采用金属环连接密封。第二种设计形式是焊接式阀盖，按这种设计形式的阀门，其阀体与阀盖螺纹连接，全焊密封。客户有特殊要求时也可采用全焊连接。第三种是压力自紧式阀盖，按这种形式设计的阀门，其阀体与阀盖用螺纹连接，内压自密封环密封。

1. 明杆支架式。
2. 自定心压板压套式。
3. 螺栓连接、缠绕式垫片密封式阀盖。
4. 螺栓连接、全焊密封式阀盖及螺纹连接内压自紧式阀盖。
5. 整体式上密封座。

The forged steel gate valve has three types of valve cover designs. The first type is the bolted valve cover. Valves designed according to this design form are connected between the valve body and the valve cover by bolts, and are sealed with an over-wrapped gasket (304 with flexible graphite) or a metal ring. The second design form is the welded valve cover. Valves designed according to this form are connected by threads between the valve body and the valve cover, and are fully welded sealed. When customers have special requirements, full welding connection can also be adopted. The third type is the pressure self-tightening valve cover. Valves designed according to this form are connected by threads between the valve body and the valve cover, and are sealed by an internal pressure self-sealing ring.

1. Lever-type support.
2. Self-centering pressure plate and sleeve type.
3. Bolted connection, wound gasket sealed valve cover.
4. Threaded connection, fully welded sealed valve cover and threaded connection internal pressure self-tightening valve cover.
5. Integral upper sealing seat.

●执行标准 Performance standard

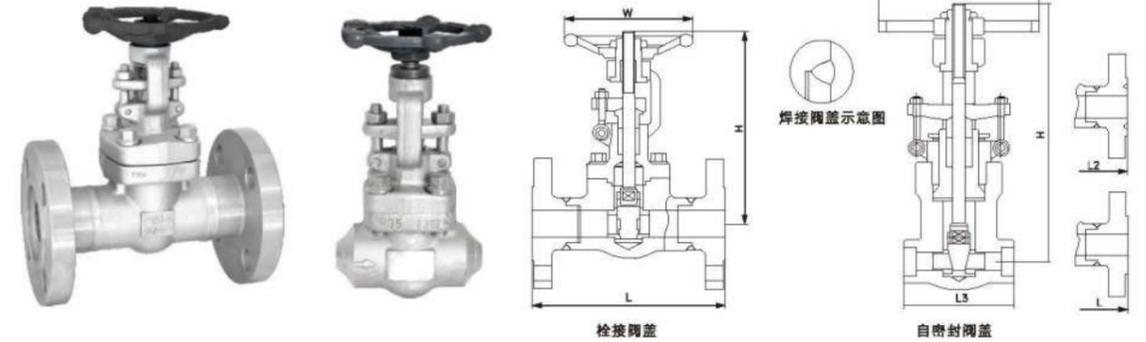
设计与制造 Design and manufacturing	结构长度 Structural length	连接形式 Connection form	试验-检验 Experiment-Inspection
API602、ASME B16.34、 JB/T7746、GB/T12224	JB/T7746	GB/T9124.1、JB/T79、 HG/T20592	GB/T13927

●性能规范 Performance specification

试验项目 Test items	强度试验 Strength test	密封试验 Sealing test	气密封试验 Airtight seal test	适用温度℃ Applicable temperature °C	适用介质 Applicable Medium
1.6	2.4	1.76	0.6	≤450℃	水、油品、蒸汽 Water, oil, steam
2.5	3.75	2.76			
4.0	6.0	4.4			
6.4	9.6	7.04			
10.0	15.0	11.0			
16.0	24.0	17.6			

●主要零部件材质 Materials of main parts

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200.、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



●主要外形尺寸和连接尺寸 Main shape size and connection size

单位Unit: mm

公称压力 Nominal pressure	NPS DN	in	1/2	3/4	1	1-1/4	1-1/2	2
PN10/16/25/40	L-L2(RF-RTJ)	mm	15	20	25	32	40	50
PN63/100	L-L2(RF-RTJ)	mm	130	150	160	180	200	250
PN160	L-L2(RF-RTJ)	mm	170	190	210	230	240	250
PN250	L(RF)	mm	170	190	210	230	260	300
	L2(RTJ)	mm	216	229	254	279	305	368
PN420	L(RF)	mm	216	229	254	279	305	371
	L2(RTJ)	mm	264	273	308	349	384	451
PN10-PN140	L3(NPT/SW)	mm	264	273	308	352	387	454
	L3(NPT/SW)	mm	79	92	111	120	120	140
PN160/250	L3(NPT/SW)	mm	111/140	111/140	120/140	120/178	140/178	178/216
PN420	L3(NPT/SW)	mm	186	186	186	232	232	279
PN10-160	W	mm	100	100	125	160	160	180
PN250/420	W	mm	125	125	160	180	200	220
PN10-160	H	mm	160	160	200	230	230	290
PN250/420	H	mm	180	180	220	260	260	330

●主要外形尺寸和连接尺寸 Main shape size and connection size

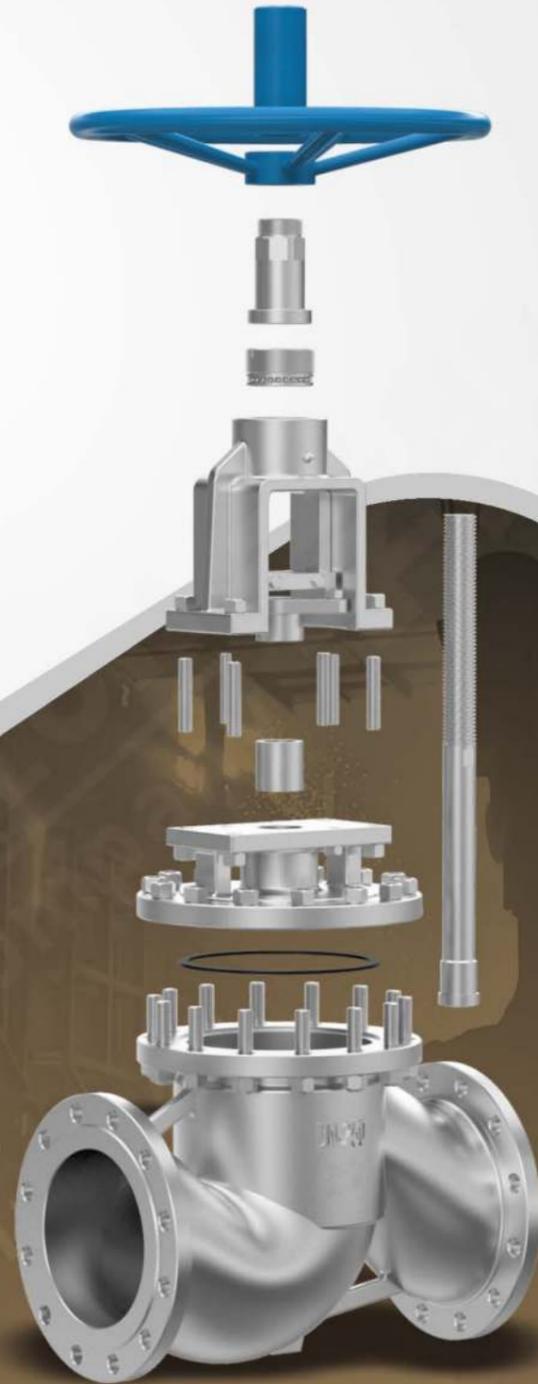
单位Unit: mm

公称压力	NPS DN	in	1/2	3/4	1	1-1/4	1-1/2	2
Class150	L(RF)	mm	15	20	25	32	40	50
	L2(RTJ)	mm	108	117	127	140	165	178
Class300	L(RF)	mm	-	-	140	153	178	191
	L2(RTJ)	mm	140	152	165	178	190	216
Class600	L(RF)	mm	151	165	178	191	203	232
	L2(RTJ)	mm	165	190	216	229	241	292
Class900	L(RF)	mm	163	190	216	229	241	295
	L2(RTJ)	mm	216	229	254	279	305	368
Class1500	L(RF)	mm	216	229	254	279	305	371
	L2(RTJ)	mm	216	229	254	279	305	371
Class2500	L(RF)	mm	216	229	254	279	305	368
	L2(RTJ)	mm	264	273	308	349	384	451
Class150-800	L(RF)	mm	264	273	308	352	387	454
	L2(RTJ)	mm	264	273	308	352	387	454
Class150-900	L3(NPT/SW)	mm	79	92	111	120	120	140
Class900-1500	L3(NPT/SW)	mm	111/140	111/140	120/140	120/178	140/178	178/216
Class2500	L3(NPT/SW)	mm	186	186	186	232	232	279
Class150-900	W	mm	100	100	125	160	160	180
Class1500/2500	W	mm	125	125	160	180	200	220
Class150-900	H	mm	160	160	200	230	230	290
Class1500/2500	H	mm	180	180	220	260	260	330

Globe valve series

截止阀系列

BOLON FLUID CONTROL (ZHEJIANG) CO., LTD.



www.bolontiv.com

●产品概述及特点Product overview and features

截止阀是指关闭件（阀瓣）沿阀座中心线移动的阀门。根据阀瓣的这种移动形式，阀座通口的变化是与阀瓣行程成正比例关系。由于该类阀门的阀杆开启或关闭行程相对较短，而且具有非常可靠的切断功能，又由于阀座通口的变化与阀瓣的行程成正比例关系，非常适合于对流量的调节。因此，这种类型的阀门非常适合作为切断或调节以及节流使用。

- 1、高温、高压介质的管路或装置上宜选用截止阀。如火电厂、核电站，石油化工系统的高温、高压管路上。
- 2、有流量调节或压力调节，但对调节精度要求不高，而且管路直径又比较小，如公称通径≤50mm的管路上，宜选用。
- 3、结构简单，制造和维修比较方便，工作行程小，启闭时间短，密封性好，密封面间摩擦力小，寿命较长。
- 4、DN250以上采用先进的多密封，双阀瓣，采用导向运动(能极大提高抗水锤冲击)、介质从上方进入，较好解决了大口径截止阀启闭力矩大，密封无法关严，填料室跑、冒、漏等问题，有力提高了阀门各项性能与使用范围。(“关”的力矩是普通阀门的10%“开”的力矩是普通阀门的3%)。

A globe valve is a type of valve where the closure element (the valve disc) moves along the centerline of the valve seat. Based on this movement pattern of the valve disc, the change in the valve seat opening is in direct proportion to the stroke of the valve disc. Due to the relatively short stroke of the valve stem opening or closing in this type of valve and its very reliable shut-off function, as well as the fact that the change in the valve seat opening is in direct proportion to the stroke of the valve disc, it is very suitable for regulating the flow. Therefore, this type of valve is very suitable for use as a shut-off or regulating valve as well as a throttle valve.

1. It is recommended to use globe valves in pipelines or devices for high-temperature and high-pressure media. For example, in power plants, nuclear power plants, and in the high-temperature and high-pressure pipelines of the petrochemical system.
2. If there is a need for flow regulation or pressure regulation, but the required regulation accuracy is not high, and the pipe diameter is relatively small (with a nominal diameter of ≤ 50mm), it is advisable to use.
3. It has a simple structure, is convenient for manufacturing and maintenance, has a small working stroke, short opening and closing time, good sealing performance, small friction force between the sealing surfaces, and a long service life.
4. For DN250 and above, advanced multi-seal, double-valve disc, using guided motion (which can greatly improve the anti-water hammer impact) and the medium entering from the top have better solved the problems of large opening and closing torque of large-diameter stop valves, inability to close tightly, leakage in the packing chamber, etc., effectively improving the performance and application range of the valve. ("The closing torque is 10% of that of ordinary valves" and "The opening torque is 3 times that of ordinary valves").

●执行标准 Performance standard

设计与制造 Design and manufacturing	结构长度 Face to face dimension	连接形式 Type of connection	压力—温度 Pressure temperature	检验与试验 Inspection and test	产品标识 Product identification
GB/T12235	GB/T12221	GB/T9113、JB/T79、HG/T20592	GB/T12224	GB/T13927	GB/T12220

●性能规范 Performance specification

1. 试验压力 Test pressure

公称压力PN(MPa)	1.6	2.5	4.0	6.4	10.0	16.0
强度试验 Strength test	2.4	3.8	6.0	9.6	15	24
上密封试验 back seal test	1.8	2.8	4.4	7.0	11	18
密封试验 seal test	1.8	2.8	4.4	7.0	11	18

2. 阀体材料及适用范围 Body material and Application

产品类型 Product type	适用介质 Applicable medium	适用温度(°C) Applicable temperature	驱动形式 Driving form
J41H/Y-C型 Type J941H/Y-C型 Type	水、蒸汽、油品 Water, steam, oil	≤425°C ≤450°C	手动、蜗轮、气动、电动 Manual, Worm gear, Pneumatic, Electric
J41W-P型 Type J941W-P型 Type	硝酸类 Nitric acid	≤200°C	
J41W-R型 Type	醋酸类 Acetic acid	≤200°C	
J41Y-I型 Type J941Y-I型 Type	水、蒸汽、油品 Water, steam, oil	≤550°C	

●主要零部件材质 Materials of main parts

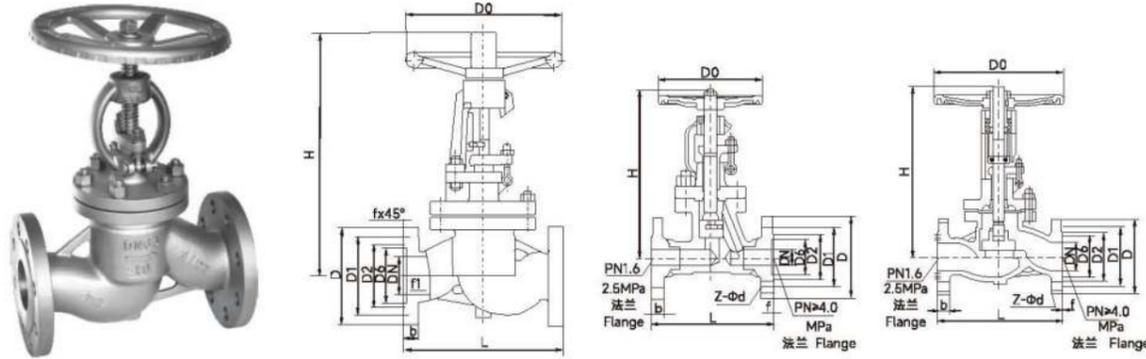
名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200.、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030

J41H
截止阀
Globe valve

J41H
截止阀
Globe valve

截止阀系列
Globe valve series

截止阀系列
Globe valve series



●主要外形尺寸和连接尺寸 Main shape size and connection size

单位Unit: mm

公称口径 DN(mm)	L	D	D1	D2	b	f	Z-Φd	手动H Hand movement	电动H Electric	D0
PN16										
10	130	90	60	40	14	2	4-14	198	-	120
15	130	95	65	45	14	2	4-14	218	-	120
20	150	105	75	55	14	2	4-14	258	-	140
25	160	115	85	65	14	2	4-14	275	-	140
32	180	135	100	78	16	2	4-18	280	-	160
40	200	145	110	85	16	3	4-18	330	-	180
50	230	160	125	100	16	3	4-18	350	645	200
65	290	180	145	120	18	3	4-18	400	690	280
80	310	195	160	135	20	3	8-18	355	715	280
100	350	215	180	155	20	3	8-18	415	770	320
125	400	245	210	185	22	3	8-18	460	780	360
150	480	280	240	210	24	3	8-23	510	875	450
200	600	335	295	265	26	3	12-23	710	967	500
250	650	405	355	320	30	3	12-23	786	1153	550
300	750	460	410	375	30	3	12-23	925	1292	600
350	850	520	470	435	34	4	16-25	980	-	700
400	950	580	525	485	36	4	16-30	1030	-	800
450	1050	640	585	545	40	4	20-30	1080	-	1000
500	1150	705	650	608	44	4	20-34	1140	-	1300
PN25										
10	130	90	60	40	16	2	4-14	198	-	120
15	130	95	65	45	16	2	4-14	218	-	120
20	150	105	75	55	16	2	4-14	258	-	140
25	160	115	85	65	16	2	4-14	275	-	140
32	180	135	100	78	18	2	4-18	280	-	160
40	200	145	110	85	18	3	4-18	330	-	180
50	230	160	125	100	20	3	4-18	350	645	200
65	290	180	145	120	20	3	8-18	400	690	280
80	310	195	160	135	22	3	8-18	355	715	280
100	350	230	190	160	24	3	8-23	415	770	320
125	400	270	220	188	28	3	8-25	460	780	360
150	480	300	250	218	30	3	8-25	510	875	450
200	600	360	310	278	34	3	12-25	710	967	500
250	650	425	370	332	36	3	12-30	786	-	550
300	750	485	430	390	40	4	16-30	925	-	600
350	850	550	490	448	44	-	16-34	1075	-	700
400	950	610	550	505	48	-	16-34	1235	-	800
450	1050	660	600	555	50	-	16-34	1235	-	1000
500	1150	730	660	610	50	-	16-41	1235	-	1350

备注: 本产品尺寸外观仅供参考, 订货尺寸请具体核实。Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

●主要外形尺寸和连接尺寸 Main shape size and connection size

单位Unit: mm

公称口径 DN(mm)	主要外形尺寸及连接尺寸 Main dimensions and connection dimensions (mm)											
	L	D	D1	D2	D6	b	f	f2	Z-Φd	H手 Hand	H电 Electric	D0
PN40												
10	130	90	60	41	35	16	2	4	4-14	198	-	120
15	130	95	65	45	40	16	2	4	4-14	233	-	120
20	150	105	75	55	51	16	2	4	4-14	275	-	140
25	160	115	85	65	58	16	2	4	4-14	285	-	160
32	180	135	100	78	66	18	2	4	4-18	302	-	180
40	200	145	110	85	76	18	3	4	4-18	355	-	200
50	230	160	125	100	88	20	3	4	4-18	373	645	240
65	290	180	145	120	110	22	3	4	8-18	408	690	280
80	310	195	160	135	121	22	3	4	8-18	436	715	320
100	350	230	190	160	150	24	3	4.5	8-23	480	770	360
125	400	270	220	188	176	28	3	4.5	8-25	588	782	400
150	480	300	250	218	204	30	3	4.5	8-25	611	875	400
200	600	375	320	282	260	38	3	4.5	12-30	720	1160	400
250	650	445	385	345	313	42	-	-	12-34	-	-	-
300	750	510	450	405	364	46	-	-	16-34	-	-	-
350	850	570	510	462	422	52	-	-	16-34	-	-	-
400	950	655	585	535	474	58	-	-	16-41	-	-	-
PN64												
10	170	100	70	50	35	18	2	4	4-14	198	-	120
15	170	105	75	55	41	18	2	4	4-14	195	-	140
20	190	125	90	68	51	20	2	4	4-18	228	-	160
25	210	135	100	78	58	22	2	4	4-18	275	-	180
32	230	150	110	82	66	24	2	4	4-23	325	-	200
40	260	165	125	95	76	24	3	4	4-23	360	-	240
50	300	175	135	105	88	26	3	4	8-23	410	710	280
65	340	200	160	130	110	28	3	4	8-23	450	750	320
80	380	210	170	140	121	30	3	4	8-23	485	785	360
100	430	250	200	168	150	32	3	4	8-25	537	837	400
125	500	295	240	202	176	36	3	4	8-30	631	-	400
150	550	340	280	240	204	38	3	4	8-34	646	-	450
200	650	405	345	300	260	44	3	4	12-34	813	-	500
PN100												
10	170	100	70	50	35	20	2	4	4-14	198	-	120
15	170	105	75	55	41	20	2	4	4-14	202	-	140
20	190	125	90	68	51	22	2	4	4-18	228	-	160
25	210	135	100	78	58	24	2	4	4-18	250	-	180
32	230	150	110	82	66	24	2	4	4-23	326	-	220
40	260	165	125	95	76	26	3	4	4-23	359	-	240
50	300	195	145	112	88	28	3	4	4-25	414	710	280
65	340	220	170	138	110	32	3	4	8-25	434	750	320
80	380	230	180	148	121	34	3	4	8-25	547	785	400
100	430	265	210	172	150	38	3	4.5	8-30	621	837	450
125	500	310	250	210	176	42	3	4.5	8-34	732	-	450
150	550	350	290	250	204	46	3	4.5	12-34	840	-	500
200	650	430	360	312	260	54	3	4.5	12-41	925	-	550
PN160												
15	170	110	75	52	40	24	2	4	4-18	148	-	140
20	190	130	90	65	51	26	2	4	4-23	156	-	160
25	210	140	100	72	58	28	2	4	4-23	125	-	180
32	230	165	115	85	66	30	2	4	4-25	200	-	200
40	260	175	125	92	76	32	3	4	4-27	231	-	240
50	300	215	165	132	88	36	3	4	8-25	262	-	250
65	340	245	190	152	110	44	3	4	8-30	303	-	320
80	380	260	205	168	121	46	3	4	8-30	341	-	400
100	430	300	240	200	150	48	3	4.5	8-34	485	-	450

备注: 本产品尺寸外观仅供参考, 订货尺寸请具体核实。Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

WJ41W
波纹管截止阀
Bellows globe valve

WJ41W
波纹管截止阀
Bellows globe valve

● **产品概述及特点 Product overview and features**

波纹管截止阀是以波纹管组件实现阀杆密封的截止阀，核心是用金属波纹管隔离介质与阀杆，搭配填料形成双重密封，从根本上解决传统截止阀阀杆外漏问题，适用于易燃、易爆、有毒、高纯度等严苛工况。

The corrugated pipe stop valve is a type of valve that achieves valve stem sealing through a corrugated pipe assembly. The core concept is to use a metal corrugated pipe to isolate the medium from the valve stem, combined with packing to form a double seal. This fundamentally solves the problem of valve stem leakage in traditional stop valves and is suitable for harsh working conditions such as those involving flammable, explosive, toxic, and highly pure substances.

● **执行标准 Performance standard**

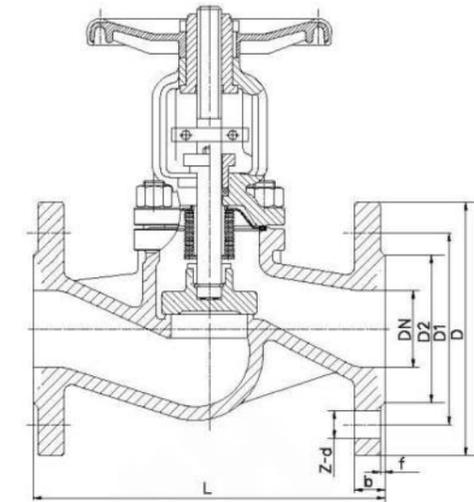
设计与制造 Design and manufacturing	结构长度 Structural length	试验和检验 Testing and inspection	端部连接 End connection
GB/T12235	GB/T12221	GB/T26480	HG/T20592

● **性能规范 Performance specification**

公称压力PN(MPa)	壳体试验压力(MPa) Shell test pressure	密封试验压力(MPa) Sealing test pressure	适用温度(°C) Temperature	使用介质 Using the media
1.6	2.4	1.76	≤350°C	水、蒸气、油品等 Water, steam, oil, etc.
2.5	3.75	2.75		
4.0	6.0	4.4		
6.4	9.6	7.04		

● **主要零部件材质 Materials of main parts**

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



● **主要外形尺寸和连接尺寸 Main shape size and connection size**

单位Unit: mm

DN	L	D	D1	D2	b	f	Z-d
PN16							
15	130	95	65	45	16	2	4-14
20	150	105	75	58	18	2	4-14
25	160	115	85	68	18	2	4-14
32	180	140	100	78	18	2	4-18
40	200	150	110	88	18	2	4-18
50	230	165	125	102	18	2	4-18
65	290	185	145	122	18	2	8-18
80	310	200	160	138	20	2	8-18
100	350	220	180	158	20	2	8-18
125	400	250	210	188	22	2	8-18
150	480	285	240	212	22	2	8-22
200	600	340	295	268	24	2	12-22
250	650	405	355	320	26	2	12-26
300	750	460	410	378	28	2	12-26
350	850	520	470	428	30	2	16-26
400	950	580	525	490	32	2	16-30

J45W
Y型截止阀
Y Type Globe Valve

J45W
Y型截止阀
Y Type Globe Valve

截止阀系列
Globe valve series

截止阀系列
Globe valve series

● **产品概述及特点 Product overview and features**

Y型钛截止阀是钛截止阀家族中为“效率”和“空间”而生的优化型号。它牺牲了微不足道的结构传统性，换来了革命性的低流阻性能和紧凑的安装高度。在涉及强腐蚀性介质的大流量输送、节能系统设计或紧凑空间布置时，选择Y型结构是一个能显著提升系统整体性能的技术决策。本质上，它是对“截止阀流阻大”这一固有缺点的最有效结构性改良之一。

The Y-type titanium stop valve is an optimized model within the family of titanium stop valves, designed specifically for "efficiency" and "space". It sacrificed the insignificant structural traditionality in exchange for revolutionary low-resistance performance and compact installation height. When dealing with high-flow transportation of highly corrosive media, energy-saving system design, or compact space layout, choosing the Y-shaped structure is a technical decision that can significantly enhance the overall performance of the system. Essentially, it is one of the most effective structural improvements to address the inherent drawback of "high flow resistance of stop valves".

● **执行标准 Performance standard**

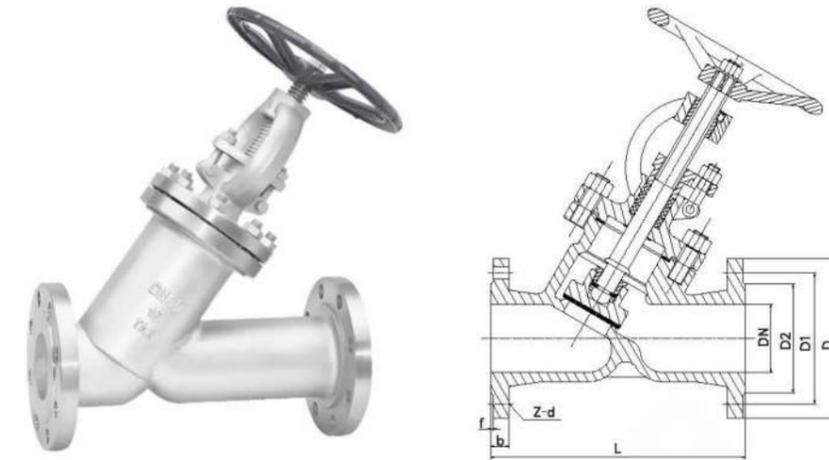
设计与制造 Design and manufacturing	结构长度 Structural length	试验和检验 Testing and inspection	端部连接 End connection
GB/T12235	GB/T12221	GB/T26480	HG/T20592

● **性能规范 Performance specification**

压力等级 Pressure level	PN1.0-10.0MPa
公称通径 Nominal diameter	DN10-DN1000
壳体试验 Shell test	2.4MPa
密封试验 Sealing test	1.8MPa
气密封试验 Gas tightness test	0.6MPa

● **主要零部件材质 Materials of main parts**

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, CZ100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M35-2, M35C, M30H, N04400, N05500
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy C-4, Hastelloy G, Hastelloy G30 N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030



● **主要外形尺寸和连接尺寸 Main shape size and connection size**

单位Unit: mm

DN	L	D	D1	D2	b	f	Z-d
PN16							
15	130	95	65	45	16	2	4-14
20	150	105	75	58	18	2	4-14
25	160	115	85	68	18	2	4-14
32	180	140	100	78	18	2	4-18
40	200	150	110	88	18	2	4-18
50	230	165	125	102	18	2	4-18
65	290	185	145	122	18	2	8-18
80	310	200	160	138	20	2	8-18
100	350	220	180	158	20	2	8-18

J11/J41/J61

锻钢截止阀 Forged steel globe valve

J11/J41/J61

锻钢截止阀 Forged steel globe valve

产品概述及特点 Product overview and features

锻钢法兰截止阀是指关闭件(阀瓣)沿阀座中心线移动的阀门。根据阀瓣的这种移动形式,阀座通口的变化是与阀瓣行程成正比例关系。由于该类阀门的阀杆开启或关闭行程相对较短,而且具有非常可靠的切断功能,又由于阀座通口的变化与阀瓣的行程成正比例关系,非常适合于对流量的调节。因此,这种类型的阀门非常适合作为切断或调节以及节流使用。

1. 明杆支架式。
2. 自定心压板压套式。
3. 螺栓连接、缠绕式垫片密封式阀盖。
4. 螺纹连接、全焊密封式阀盖及螺纹连接内压自紧式阀盖。
5. 整体式上密封座。

Forged steel flange globe valve refers to the valve whose closing piece (disc) moves along the center line of valve seat. According to this movement of the valve disc, the change of the valve seat opening is in direct proportion to the stroke of the valve disc. Because the opening or closing stroke of the valve stem is relatively short, and it has a very reliable cut-off function, and because the change of the valve seat opening is in direct proportion to the stroke of the valve disc, it is very suitable for flow adjustment. Therefore, this type of valve is very suitable for cutting off or regulating as well as throttling.

1. Bright pole bracket type.
2. Self determined pressure plate and sleeve type.
3. Bolt connection, wrapped gasket sealed valve cover.
4. Threaded connection, fully welded sealed valve cover, and threaded connection internal pressure self tightening valve cover.
5. Integral sealing seat.

执行标准 Performance standard

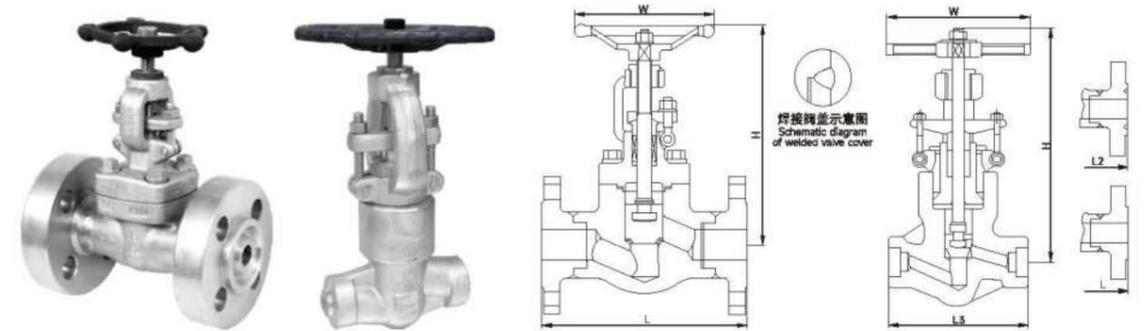
设计制造 Design and manufacture	API602; ASMEB16.34; JB/T7746; GB/T12225
结构长度 Structure length	厂标或客户要求 Factory standard or customer requirements
承插端尺寸 Socket end size	ASMEB16.11; JB/T7746(SW)
对焊端尺寸BW BW Connection Dimension	ASMEB16.25; JB/T7746(BW)
螺纹端尺寸 Thread end size	ASMEB1.20.1(NPT); GB/T7306(Rc)
检验与试验 Inspection and test	API598; JB/T9092; GB/T26480
结构特征 structure characteristics	W·B(中部焊接)PS(中部自密封) 流量: 全径(FP)缩径 RP W·B (middle welding) PS (middle self sealing) flow: full diameter (FP) reducing RP

性能规范 Performance specification

公称通径 Nominal diameter	压力范围 Pressure range	连接形式 Connection form	驱动方式 Drive mode
DN10-50	PN16-420、150LB-2500LB	焊接、法兰、螺纹 Welding, flanges, threads	手动 Hand movement

主要零部件材质 Materials of main parts

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



主要外形尺寸和连接尺寸 Main shape size and connection size

单位Unit: mm

公称压力 Nominal pressure	NPS DN	in mm	1/2 15	3/4 20	1 25	1-1/4 32	1-1/2 40	2 50
PN10/16/25/40	L-L2(RF-RTJ)	mm	130	150	160	180	200	230
PN63/100/160	L-L2(RF-RTJ)	mm	170	190	210	230	260	300
PN250	L(RF)	mm	216	229	254	279	305	368
	L2(RTJ)	mm	216	229	254	279	305	371
PN420	L(RF)	mm	264	273	308	349	384	451
	L2(RTJ)	mm	264	273	308	352	387	454
PN10-PN140	L3(NPT/SW)	mm	79	92	111	120	152	172
PN160-250	L3(NPT/SW)	mm	111/140	111/140	120/140	152/178	172/178	200/216
PN420	L3(NPT/SW)	mm	186	186	186	232	232	279
PN10-160	W	mm	100	100	125	160	160	180
PN250/420	W	mm	125	125	160	180	200	220
PN10-160	H	mm	160	160	200	230	230	290
PN250/420	H	mm	180	180	220	260	260	330

主要外形尺寸和连接尺寸 Main shape size and connection size

单位Unit: mm

公称压力 Nominal pressure	NPS DN	in mm	1/2 15	3/4 20	1 25	1-1/4 32	1-1/2 40	2 50
Class150	L(RF)	mm	108	117	127	140	165	203
	L2(RTJ)	mm	-	-	140	153	178	216
Class300	L(RF)	mm	152	178	203	216	229	267
	L2(RTJ)	mm	161	191	216	229	242	283
Class600	L(RF)	mm	165	190	216	229	241	292
	L2(RTJ)	mm	163	190	216	229	241	295
Class900	L(RF)	mm	216	229	254	279	305	368
	L2(RTJ)	mm	216	229	254	279	305	371
Class1500	L(RF)	mm	216	229	254	279	305	368
	L2(RTJ)	mm	216	229	254	279	305	371
Class2500	L(RF)	mm	264	273	308	349	384	451
	L2(RTJ)	mm	264	273	308	352	387	454
Class150-800	L3(NPT/SW)	mm	79	92	111	120	152	172
Class900-1500	L3(NPT/SW)	mm	111/140	111/140	120/140	152/178	172/178	200/216
Class2500	L3(NPT/SW)	mm	186	186	186	232	232	279
Class150-900	W	mm	100	100	125	160	160	180
Class1500/2500	W	mm	125	125	160	180	200	220
Class150-900	H	mm	160	160	200	230	230	290
Class1500/2500	H	mm	180	180	220	260	260	330

Check valve series

止回阀系列

BOLON FLUID CONTROL (ZHEJIANG) CO., LTD.



H41H 升降式止回阀 Lift Check Valve

止回阀系列
Check valve series

● 产品概述 Product overview

升降止回阀的阀体结构采用截止阀的阀体，其阀瓣沿着通道中以线作升降运动，动作可靠，但流体阻力较大，适用于轻小口径的场合。直通式升降止回阀一般只能安装在水平管路。止回阀广泛用于国内钢铁厂、石油、化工、煤气、锅炉、造纸、纺织、医药、食品、船舶、供排水、能源、多晶硅、电力等行业工业管道。

The valve body structure of the lift check valve adopts the valve body of a globe valve. The valve disc moves up and down along the channel in a linear motion. It has reliable operation but has a relatively high fluid resistance, and is suitable for light and small-sized applications. The straight-through lift check valve can generally only be installed on horizontal pipelines. Check valves are widely used in domestic steel mills, petroleum, chemical industry, gas, boilers, papermaking, textiles, medicine, food, ships, water supply and drainage, energy, polysilicon, power and other industries' industrial pipelines.

● 执行标准 Executive standards

设计与制造 Design and manufacturing	结构长度 Face to face dimension	法兰连接 Flange connection	检验与试验 Inspection and test	压力—温度 Pressure temperature
GB/T12235	GB/T12221	HG20592 JB/T79 GB/T9113	GB/T13927	GB/T12224

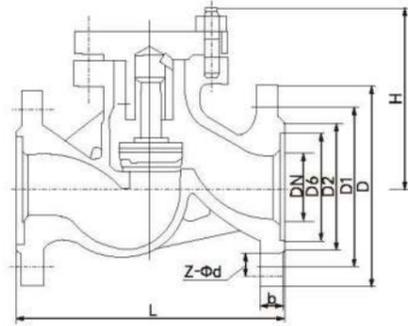
● 主要性能规范 Main performance specifications

公称压力 PN(Mpa)	试验压力(MPa) Test pressure		适用温度(°C) Applicable temperature				适用介质 Applicable medium
	强度试验 Strength test	密封试验 Sealing test	WCB	Cr5Mo	1Cr18Ni12Mo2Ti	1Cr18Ni9Ti	
1.6	2.4	1.8	≤425	≤550	≤220	≤200	水、油品、 蒸汽、 酸性介质 Water, oil, steam, Acid medium
2.5	3.8	2.8					
4.0	6.0	4.4					
6.4	9.6	7.1					
10.0	15.0	11.0					
16.0	24.0	17.6					

● 主要零部件材质 Materials of main parts

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, CZ100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M35-2, M35C, M30H, N04400, N05500
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy C-4, Hastelloy G, Hastelloy G30 N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030

H41H
升降式止回阀
Lift type check valve



●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions

单位Unit: mm

DN	L	D	D1	D2	b	Z-Φd	参考值 Reference value H
PN16							
15	130	95	65	45	14	4-14	90/77
20	150	105	75	55	14	4-14	95/77
25	160	115	85	65	14	4-14	100/80
32	180	135	100	78	16	4-18	105/85
40	200	145	110	85	16	4-18	110/95
50	230	160	125	100	16	4-18	115/105
65	290	180	145	120	18	4-18	140/120
80	310	195	160	135	20	8-18	170/130
100	350	215	180	155	20	8-18	200/140
125	400	245	210	185	22	8-18	230/155
150	480	280	240	210	24	8-23	255/180
200	600	335	295	265	26	12-23	285/215
250	650	405	355	320	30	12-25	290/260
300	750	460	410	375	30	12-25	300/315
400	1100	580	525	485	36	16-30	-
500	1250	705	650	608	44	20-34	-
PN25							
15	130	95	65	45	16	4-14	90/100
20	150	105	75	55	16	4-14	95/105
25	160	115	85	65	16	4-14	100/120
32	180	135	100	78	18	4-18	105/130
40	200	145	110	85	18	4-18	110/135
50	230	160	125	100	20	4-18	115/149
65	290	180	145	120	22	8-18	140/160
80	310	195	160	135	22	8-18	170/169
100	350	230	190	160	24	8-23	200/194
125	400	270	220	188	28	8-25	232/222
150	480	300	250	218	30	8-25	262/255
200	600	360	310	278	34	12-25	285/305
250	650	425	370	332	36	12-30	290/355
300	750	485	430	390	40	16-30	300/410
400	1100	580	525	485	36	16-30	-
500	1250	705	650	608	44	20-34	-

备注：本产品尺寸外观仅供参考，订货尺寸请具体核实。Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

H41H
升降式止回阀
Lift type check valve

●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions

单位Unit: mm

DN	L	D	D1	D2	D6	b	Z-Φd	参考值 Reference value H
PN40								
15	130	95	65	45	40	16	4-14	100/90
20	150	105	75	55	51	16	4-14	105/95
25	160	115	85	65	58	16	4-14	120/105
32	180	135	100	78	66	18	4-18	130/120
40	200	145	110	85	76	18	4-18	135/140
50	230	165	125	100	88	20	4-18	149/150
65	290	185	145	120	110	22	8-18	164/160
80	310	200	160	135	121	22	8-18	169/175
100	350	235	190	160	150	24	8-23	194/200
125	400	270	220	188	176	28	8-25	225/225
150	480	300	250	218	204	30	8-25	255/262
200	600	375	320	282	260	38	12-30	305/315
250	650	445	385	345	313	42	12-34	360/360
300	750	510	450	408	364	46	16-34	415/415
350	980	570	510	465	422	52	16-34	-
400	1100	655	585	535	474	58	16-41	-
450	1200	680	610	560	524	60	16-41	-
500	1250	755	670	612	576	62	20-48	-
PN64								
15	210	105	75	55	40	18	4-14	100
20	230	125	90	68	51	20	4-18	110
25	230	135	100	78	58	22	4-18	125
32	260	150	110	82	66	24	4-23	140
40	260	165	125	95	76	24	4-23	168
50	300	175	135	105	88	26	4-23	170
65	340	200	160	130	110	28	8-23	188
80	380	210	170	140	121	30	8-23	205
100	430	250	200	168	150	32	8-25	230
125	500	295	240	202	170	36	8-25	245
150	550	340	280	240	204	38	8-34	265
200	600	405	345	300	260	44	12-34	310
250	775	-	-	-	-	-	-	-
300	900	-	-	-	-	-	-	-
PN100								
32	230	150	110	82	66	24	4-23	140
40	260	165	125	95	76	26	4-23	155
50	300	195	145	112	88	28	4-25	170
65	340	220	170	138	110	32	8-25	190
80	380	230	180	148	121	34	8-25	235
100	430	265	210	172	150	38	8-30	265
125	500	310	250	210	176	42	8-34	310
150	550	350	290	250	204	46	12-34	350
200	600	430	360	312	260	54	12-41	400
250	775	-	-	-	-	-	-	-
300	900	-	-	-	-	-	-	-
350	1150	-	-	-	-	-	-	-
400	1025	-	-	-	-	-	-	-

备注：本产品尺寸外观仅供参考，订货尺寸请具体核实。Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

H44H
旋启式止回阀
Swing Check Valve

H44H
旋启式止回阀
Swing Check Valve

● **产品概述及特点Product overview and features**

旋启式止回阀的采用内装摇臂旋启式结构，阀门的所有启闭件都装于阀体内部，不穿透阀体，除了中法兰部位用密封垫片和密封环外，整体没有外漏点，杜绝阀门外泄的可能。旋启式止回阀摇臂和阀瓣连接处采用球面连接的结构，使得阀瓣在360度范围内有一定的自由度，有适当的微量位置补偿。可安装在垂直和水平的管路上。

- 1、阀瓣关闭快速、动作灵敏，关闭冲击力小、不易产生水锤现象，流道通畅、流体阻力小。
- 2、密封副配对先进合理，阀杆、阀座密封面采用铁基合金或司太立(stellite)钴基硬质合金堆焊而成。耐磨、耐高温、耐腐蚀、抗擦伤性能好，使用寿命长。
- 3、可适用于水、蒸汽、油品、硝酸、醋酸、强氧化性介质及尿素等多种介质。主要用于石油、化工、制药、化肥、电力等管路上。

The swing check valve adopts an internal rocker arm swing structure. All the opening and closing components of the valve are installed inside the valve body and do not penetrate the valve body. Except for the middle flange part which uses a sealing gasket and sealing ring, there are no external leakage points throughout the valve body, eliminating the possibility of external leakage. The connection between the rocker arm and the valve disc of the swing check valve adopts a spherical connection structure, which enables the valve disc to have a certain degree of freedom within 360 degrees and appropriate micro-position compensation. It can be installed on vertical and horizontal pipelines.

1. The valve disc closes quickly and sensitively, with small closing impact force, and does not easily cause water hammer phenomenon. The flow channel is unobstructed and the fluid resistance is small.
2. The sealing pair is advanced and reasonable. The valve stem and valve seat sealing surfaces are made by welding iron-based alloys or Stellite (a cobalt-based hard alloy) powder. They are wear-resistant, heat-resistant, corrosion-resistant, and have good anti-abrasion performance, with a long service life.
3. It can be used for various media such as water, steam, oil, nitric acid, acetic acid, strong oxidizing media, and urea. It is mainly used in pipelines of petroleum, chemical industry, pharmaceuticals, fertilizers, power, etc.

● **执行标准Executive standards**

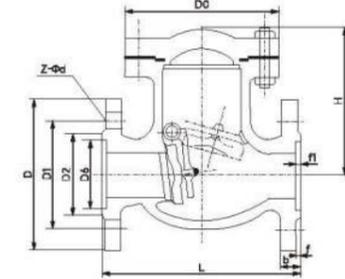
设计与制造 Design and manufacturing	结构长度 Face to face dimension	法兰连接 Flange connection	压力-温度 Pressure temperature	检验与试验 Inspection and test	产品标识 Product identification	供货规范 Supply specification
GB/T12236	GB/T12221	GB/T9113	GB/T12224	GB/T13927	GB/T12220	JB/T7928

● **主要性能规范Main performance specifications**

公称压力 PN(MPa)	试验压力(MPa) Test pressure		适用温度 Applicable temperature(°C)				适用介质 Applicable medium
	强度试验 Strength test	密封试验 Sealing test	WCB	Cr5Mo	1Cr18Ni12Mo2Ti	1Cr18Ni9Ti	
1.6	2.4	1.8	≤425	≤550	≤220	≤200	水、油品、 蒸汽、 酸性介质 Water, oil, steam, Acid medium
2.5	3.8	2.8					
4.0	6.0	4.4					
6.4	9.6	7.1					
10.0	15.0	11.0					
16.0	24.0	18					
25.0	38	28	/	/	/	/	/

● **主要零部件材质 Materials of main parts**

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, C2100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M35-2, M35C, M30H, N04400, N05500
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy C-4, Hastelloy G, Hastelloy G30 N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030



● **主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions**

单位Unit: mm

公称通径 DN(mm)	L	D	D1	D2	b	f	Z-φd	参考值 Reference value		
								D0	H	
PN16										
15	130	95	65	48	16	2	4-14	-	-	
20	150	105	75	58	16	2	4-14	-	-	
25	160	115	85	65	16	2	4-14	140	130	
32	180	135	100	78	16	2	4-18	150	140	
40	200	145	110	85	16	2	4-18	160	150	
50	230	160	125	100	16	2	4-18	185	160/135	
65	290	180	145	120	18	3	4-18	215	177/142	
80	310	195	160	135	20	3	8-18	235	187/165	
100	350	215	180	155	20	3	8-18	255	202/180	
125	400	245	210	185	22	3	8-18	285	227/210	
150	480	280	240	210	24	3	8-23	330	263/233	
200	550	335	295	265	26	3	12-23	385	293/304	
250	650	405	355	320	30	3	12-25	455	330/348	
300	750	460	410	375	30	4	12-25	515	382/390	
350	850	520	470	435	34	4	16-25	545	430	
400	950	580	525	485	36	4	16-30	600	480/468	
500	1150	705	650	608	44	4	20-34	730	560/525	
600	1350	840	770	718	48	-	20-41	-	-	
700	1450	910	840	788	50	-	24-41	-	-	
800	1650	1020	950	898	52	-	24-41	-	-	
PN25										
15	130	95	65	48	16	2	4-14	-	-	
20	150	105	75	58	16	2	4-14	-	-	
25	160	115	85	65	16	2	4-14	140	130	
32	180	135	100	78	16	2	4-18	150	140	
40	200	145	110	85	16	2	4-18	160	150	
50	230	160	125	100	20	3	4-18	185	177/160	
65	290	180	145	120	22	3	8-18	215	192/175	
80	310	195	160	135	22	3	8-18	235	192/185	
100	350	230	190	160	24	3	8-23	260	217/220	
125	400	270	220	188	28	3	8-25	296	250/248	
150	480	300	250	218	30	3	8-25	330	270/276	
200	550	360	310	278	34	3	12-25	380	350	
250	650	425	370	332	36	3	12-30	430	410	
300	750	485	430	390	40	4	16-30	490	430	
350	850	550	490	448	44	4	16-34	545	450/518	
400	950	610	550	505	48	4	16-34	600	560/582	
500	1150	730	660	610	52	4	20-41	730	618	
600	1350	840	770	718	48	-	20-41	-	-	
700	1450	910	840	788	50	-	24-41	-	-	
800	1650	1020	950	898	52	-	24-41	-	-	
PN40										
15	130	95	65	45	-	-	4-14	-	-	
20	150	105	75	58	-	-	4-14	-	-	
25	160	115	85	68	-	-	4-14	-	-	
32	180	135	100	78	-	-	4-18	-	-	
40	200	145	110	88	-	-	4-18	-	-	
50	230	160	125	100	88	20	4-18	185	160	
65	290	180	145	120	110	22	4-18	210	175	
80	310	195	160	135	121	22	4-18	235	185	
100	350	230	190	160	150	24	4-18	260	220	
125	400	270	220	188	176	28	8-23	295	248	
150	480	300	250	218	204	30	8-25	330	270	
200	550	375	320	282	260	38	4.5	12-30	450	350
250	650	445	385	345	313	42	4.5	12-34	445	410
300	750	510	450	408	364	46	4.5	16-34	545	430
350	850	570	510	465	422	52	4	16-34	570	518
400	950	655	585	535	474	58	4	16-41	625	560
500	1150	755	670	612	576	62	4	20-48	730	-
600	1350	890	795	730	678	62	4	20-54	-	-

备注：本产品尺寸外观仅供参考，订货尺寸请具体核实。Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

H42H/W/N
立式止回阀
Vertical lift check valve

H42H/W/N
立式止回阀
Vertical lift check valve

● **产品概述 Product overview**

立式止回阀是专为垂直管道设计的单向阀门，核心部件采用钛材，具备卓越的耐腐蚀性。其阀瓣沿轴线升降，通常内置弹簧，能在介质正向流动时顶开阀瓣，停流或逆流时迅速关闭，密封可靠。该结构使其特别适用于空间有限的立管安装，广泛用于化工、海水淡化、电力环保等存在强腐蚀性介质的工况，有效防止介质倒流，保护关键设备。

The vertical check valve is a one-way valve specifically designed for vertical pipelines. Its core component is made of titanium, which possesses excellent corrosion resistance. The valve disc moves up and down along the axis. Usually, a spring is built in, which can push the valve disc open when the medium flows in the forward direction, and quickly close it when the flow stops or reverses, ensuring reliable sealing. This structure makes it particularly suitable for vertical pipe installations with limited space, and is widely used in industries such as chemical engineering, seawater desalination, power and environmental protection where there are strong corrosive media. It effectively prevents the backflow of the medium and protects key equipment.

● **执行标准 Executive standards**

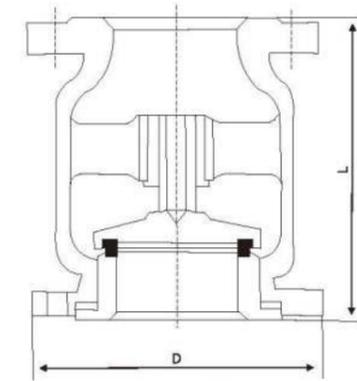
设计与制造 Design and manufacturing	结构长度 Structure length	法兰连接 Flange connection	压力-温度 Pressure temperature	检验与试验 Inspection and test	产品标识 Product identification	供货规范 Supply specification
GB/T12235	GB/T12221	HG20592、 GB/T9113、JB/T 79	GB/T9124	GB13927、JB9092	GB/T12220	JB/T7928

● **主要性能规范 Main performance specifications**

公称压力 PN Nominal Pressure	2.5	4.0	6.4	10.0	MPa
壳体试验压力 Shell test pressure	3.75	6.0	9.6	15.0	
高压密封试验压力 High pressure seal test pressure	2.75	4.4	7.04	11.0	
低压密封试验压力 Low pressure seal test pressure	0.6				
适用介质 Applicable medium	C	P	R	N	
	水、油品、蒸汽 Water, oil, steam	硝酸类 Nitric acid	醋酸类 Acetic acid	液化气 Liquefied gas	
适用温度 Applicable temperature	≤425°C	≤200°C		-40~+80°C	

● **主要零部件材质 Materials of main parts**

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



● **主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions**

单位Unit: mm

公称通径 DN(mm)	PN16		PN25		PN40	
	L	D	L	D	L	D
15	80	95	80	95	-	-
20	90	105	90	105	-	-
25	100	115	100	115	-	-
32	110	135/140	110	135/140	-	-
40	120	145/150	120	145/150	-	-
50	140	160/165	140	160/165	140	160
65	160	180/185	160	180/185	160	180
80	185	195/200	185	195/200	185	195
100	210	215/220	210	230/235	210	230
125	275	245/250	275	270/275	275	270
150	300	280/285	300	300	300	300
200	380	335/340	380	360	380	375
250	430	405	430	425	430	445
300	510	460	510	485	510	510

对夹式止回阀

Wafer check valve

H76H
对夹式止回阀
Wafer check valve

产品概述及特点 Product overview and features

对夹式止回阀适用于公称压力PN1.0MPa-42.0MPa、Class150-2500；公称通径DN15-1200mm、NPS1/2-48；工作温度-196~540°C的各种管路上，用于防止介质倒流。通过选用不同的材质，可适用于水、蒸汽、油品、硝酸、醋酸、强氧化性介质及尿素等多种介质。

- 1、结构长度短，其结构长度只有传统法兰止回阀的1/4-1/8；
- 2、体积小、重量轻，其重量只有传统法兰止回阀的1/4-1/20；
- 3、阀瓣关闭快速，水锤压力小；
- 4、水平管道或垂直管道均可使用，安装方便；
- 5、流道通畅、流体阻力小；
- 6、动作灵敏、密封性能好；
- 7、阀瓣行程短、关闭冲击力小；
- 8、整体结构、简单紧凑、造型美观；
- 9、使用寿命长、可靠性高；
- 10、也适用于Kpa低电压开启。

- Wafer type check valve for the nominal pressure PN1.0MPa-42.0MPa, nominal Class150-2500; DN15-1200mm, NPS1/2-48; all kinds of pipeline working temperature of -196-540 DEG C, used to prevent the media back. Through the use of different materials, can be applied to water, steam, oil, nitric acid, acetic acid, strong oxidizing medium and urea and other media.
1. The structure length is short, the length of the structure is only the traditional flange check valve 1/4-1/8;
 2. Small size, light weight, the weight of only the traditional flange check valve 1/4-1/20;
 3. The valve closed quickly, small water hammer pressure;
 4. Horizontal or vertical pipe can be used, easy to install;
 5. Smooth flow, small fluid resistance;
 6. Sensitive action, good sealing performance;
 7. The valve flap stroke is short, close the impact force is small;
 8. The overall structure, simple and compact, beautiful appearance;
 9. Long service life, high reliability;
 10. Also applicable for Kpa low voltage opening.

执行标准 Performance standard

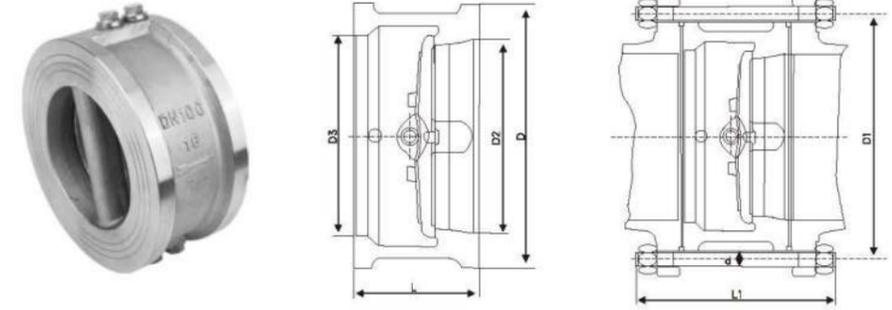
设计与制造 Design and manufacture	结构长度 Structure length	压力-温度等级 Pressure temperature rating	试验与检验 Test and inspection	配管法兰 Piping flange
API594、API6D、 JB/T8937、GB/T12235	API594、API6D、 DIN3202、JB/T8937	ANSI B16.34、DIN2401、 GB/T9124、HG20604、 HG20625、SH3406、 JB/T74	API598、GB/T13927	JB/T74-90、GB/T9112-9124、 HG 20592-20635、SH3406、 ANSI B 16.5、DIN 2543-2548、 GB/T13402、API 605、 ASME B16.47

性能规范 Performance specification

公称压力 Nominal pressure	PN1.0	PN1.6	PN2.5	PN4.0	PN6.4	PN10.0	PN16.0	CL 150	CL 300	CL 600	CL 900
壳体试验 Shell test	2.0	2.4	3.75	6.0	9.6	15.0	24.0	2.93	7.55	10.0	15.0
试验压力 (MPa) Test pressure	1.1	1.76	2.75	4.4	7.04	11.0	17.0	2.07	5.52	7.32	11.03
低压密封 Low pressure seal	0.6										
适用温度 Temperature	-20~550°C (不同的工况温度选用不同的材质) -20-550 °C (different materials are selected for different operating conditions and temperatures)										
适用介质 Applicable Medium	水、油、气及各类腐蚀性介质 (不同的工况温度选用不同的材质) Water, oil, gas, and various corrosive media (different materials are selected for different operating conditions and temperatures)										

主要零部件材质 Main component materials

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1、ZTA2、ZTA3、ZTA9、ZTA10、ZTC4、TA1、TA2、TA3、TA9、TA10、TC4 Titanium Gr2、Gr3、Gr5、Gr6、Gr7、Gr12 Titanium GrC2、GrC3、GrC5、GrC6、Ti-Pd7B、GrC12 Titanium GrF2、GrF3、GrF5、GrF6、GrF7、GrF12
镍及镍合金 Nickel and nickel alloys	N6、CZ100、Nickel 200、Nickel 201、NO2200、NO2201
锆材 Zirconium material	Zirconium 702、Zirconium 705、Zr702、Zr705、702C、705C、R60702、R60705
蒙乃尔合金 Monel alloy	Monel400、MonelK500、M35-1、M35-2、M35C、M30H、N04400、N05500
哈氏合金 Hastelloy alloy	Hastelloy B、Hastelloy B-2、Hastelloy C276、Hastelloy C-22、Hastelloy C-4、Hastelloy G、Hastelloy G30 N12MV、N7M、CW12MV、CX2MW、CW2M N10001、N10665、N10276、N06022、N06455、N06007、N06030



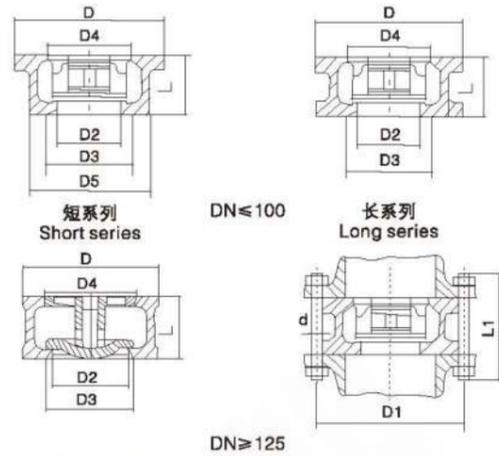
主要外形尺寸和连接尺寸 Main shape size and connection size

单位 Unit: mm

公称通径 Nominal Diameter DN(mm)	PN10				配管法兰(供参考) Flange (for reference)			
	L	D	D3	D2	螺栓孔中心圆直径D1 Center circle diameter of bolt hole D1	螺栓数量 Bolt quantity	螺栓直径D Bolt diameter D	螺栓长度L1 Bolt length L1
50	60	108	56	51	125	4	M16	150
65	67	128	73	65	145	4	M16	155
80	73	142	88	80	160	8	M16	160
100	73	162	108	102	180	8	M16	165
125	86	192	132	127	210	8	M16	180
150	98	218	160	152	240	8	M20	205
200	127	273	210	203	295	8	M20	235
250	146	328	266	254	350	12	M20	255
300	181	378	310	305	400	12	M20	290
350	184	438	355	350	460	16	M20	295
400	191	489	405	400	515	16	M24	310
450	203	539	455	450	565	20	M24	325
500	219	594	505	500	620	20	M24	345
600	222	696	605	600	725	20	M27	355
700	305	811	700	695	840	24	M27	440
800	305	918	800	796	950	24	M30	450
900	368	1018	903	898	1050	28	M30	520
1000	432	1124	1055	1050	1160	28	M33	590
1200	524	1340	1205	1200	1380	32	M36	695
PN16								
50	60	108	56	51	125	4	M16	150
65	67	128	73	65	145	4	M16	155
80	73	142	88	80	160	8	M16	160
100	73	162	108	102	180	8	M16	165
125	86	192	132	127	210	8	M16	180
150	98	218	160	152	240	8	M20	205
200	127	273	210	203	295	12	M20	235
250	146	329	266	254	355	12	M24	265
300	181	384	310	305	410	12	M24	305
350	184	444	355	350	470	16	M24	310
400	191	496	405	400	525	16	M27	330
450	203	556	455	450	585	20	M27	345
500	219	618	505	500	650	20	M30	370
600	222	732	605	600	770	20	M33	380
700	305	802	700	695	840	24	M33	470
800	305	912	800	796	950	24	M36	475
900	368	1012	903	898	1050	28	M36	545
1000	432	1126	1055	1050	1170	28	M39	620
1200	524	1340	1205	1200	1390	32	M45	735

H71H
对夹升降式止回阀
Clamp Lift Check Valve (national Standard)

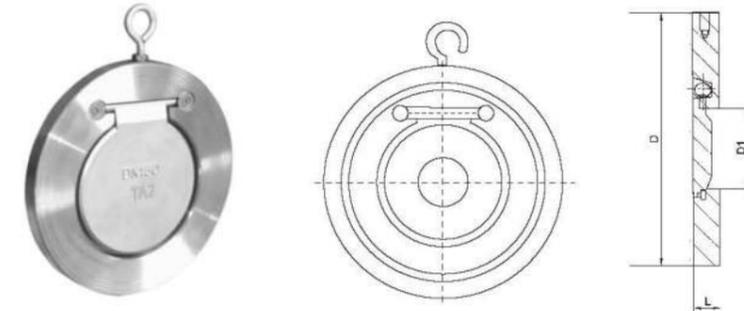
H74H
单瓣对夹旋启式止回阀
Single Valve Pinch Check Valve (national Standard)



●主要外形尺寸和连接尺寸 Main shape size and connection size

单位(Unit): mm

公称通径 DN mm	尺寸 size (mm)						配管法兰(供参考) Pipe flanges (for reference)			
	L	D	D2	D3	D4	D5	螺栓孔中心圆直径D1 Center circle diameter of bolt hole	螺栓数量 Bolt number	螺栓直径d Bolt diameter	螺栓长度L1 Bolt length
PN10/PN16										
15	16	52	15	24	31	40	65	4	M12	75
20	19	62	19	30	40	50	75	4	M12	90
25	22	72	24	36	47	58	85	4	M12	90
32	28	83	31	46	56	68	100	4	M16	100
40	31.5	93	39	55	66	78	110	4	M16	105
50	40	108	48	65	78	90	125	4	M16	125
65	46	128	62	80	95	110	145	4	M16	130
80	50	142	76	96	110	128	160	8	M16	135
100	60	162	95	115	135	150	180	8	M16	150
125	90	192	110	125	132	-	210	8	M16	180
150	106	218	127	150	158	-	240	8	M20	210
PN10										
200	140	273	165	200	208	-	295	8	M20	240
PN16										
200	140	273	165	200	208	-	295	12	M20	240
PN25										
15	16	52	15	24	31	40	65	4	M12	80
20	19	62	19	30	40	50	75	4	M12	90
25	22	72	24	36	47	58	85	4	M12	90
32	28	83	31	46	56	68	100	4	M16	110
40	31.5	93	39	55	66	78	110	4	M16	115
50	40	108	48	65	78	90	128	4	M16	125
65	46	128	62	80	95	110	145	8	M16	135
80	50	142	76	96	110	128	160	8	M16	145
100	60	168	95	115	135	150	190	8	M20	160
125	90	194	110	125	132	-	220	8	M24	205
150	106	224	127	150	158	-	250	8	M24	225
200	140	284	165	200	208	-	310	12	M24	260



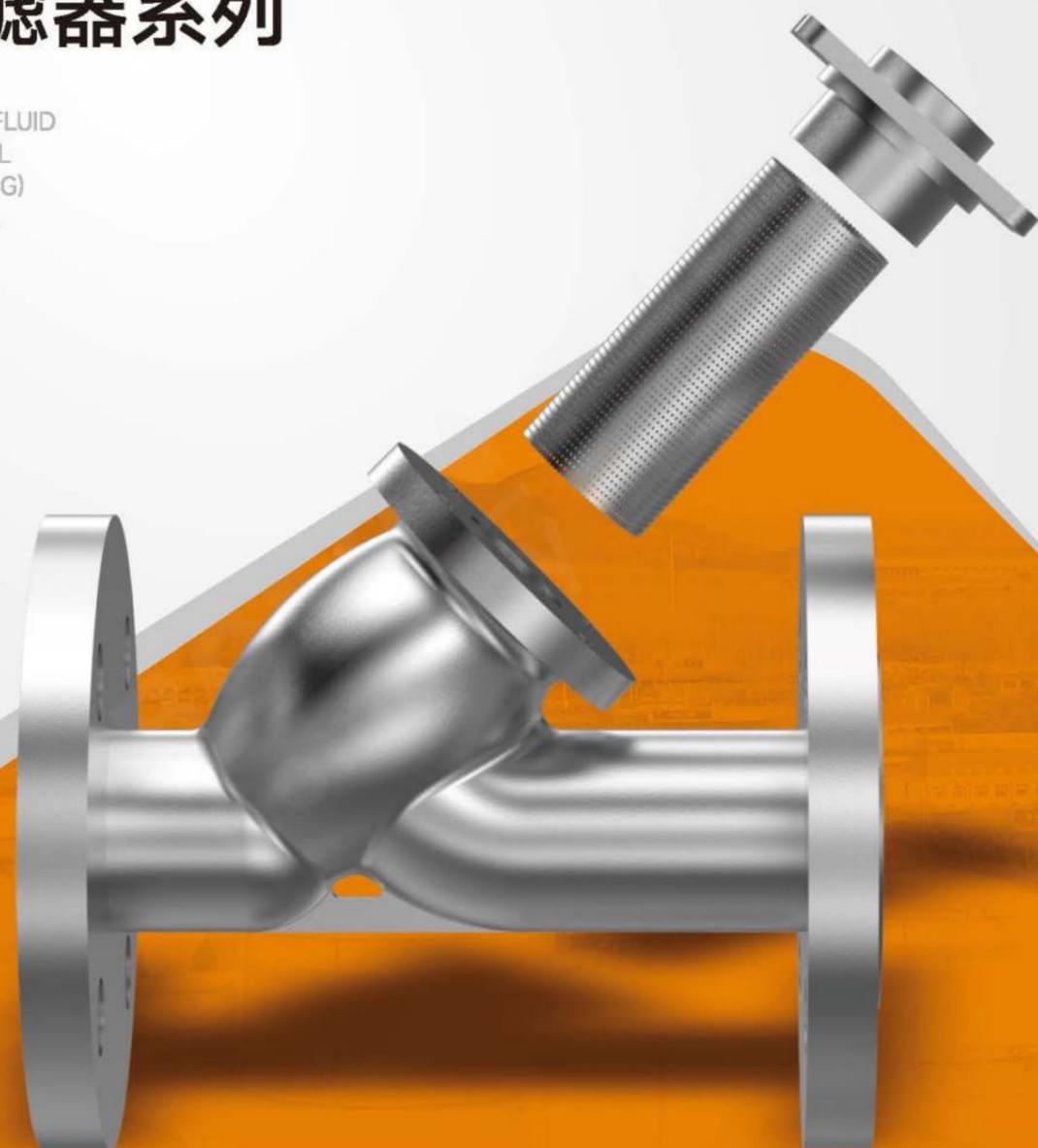
●主要外形尺寸和连接尺寸 Main shape size and connection size

公称通径 DN(mm)	尺寸(mm)		配管法兰(供参考)Piping flange (for reference)			
	L	D	螺栓孔中心圆直径D1 The diameter D1 of the central circle of the bolt hole	螺栓数量 Number of screw holes	螺栓直径d	螺栓长度L1
PN10						
50	60	108	125	4	16	150
65	67	128	145	4	16	155
80	73	142	160	8	16	160
100	73	162	180	8	16	165
125	86	192	210	8	16	180
150	98	218	240	8	20	205
200	127	273	295	8	20	235
250	146	328	350	12	20	255
300	181	378	400	12	20	290
350	184	438	460	16	20	295
400	191	489	515	16	24	310
450	203	539	565	20	24	325
500	219	594	620	20	24	345
600	222	696	725	20	27	355
PN16						
50	60	108	125	4	16	150
65	67	128	145	4	16	155
80	73	142	160	8	16	160
100	73	162	180	8	16	165
125	86	192	210	8	16	180
150	98	218	240	8	20	205
200	127	273	295	12	20	235
250	146	329	355	12	24	265
300	181	384	410	12	M24	305
350	184	444	470	16	M24	310
400	191	496	525	16	M27	330
450	203	556	585	20	M27	345
500	219	618	650	20	M30	370
600	222	732	770	20	M33	380
PN25						
50	60	108	125	4	M16	150
65	67	128	145	8	M16	160
80	73	142	160	8	M16	170
100	73	168	190	8	M20	180
125	86	194	220	8	M24	205
150	98	224	250	8	M24	220
200	127	284	310	12	M24	255
250	146	341	370	12	M27	285
300	181	401	430	16	M27	325
350	184	458	490	16	M30	340
400	191	515	550	16	M33	360
450	203	565	600	20	M33	375
500	219	622	660	20	M33	395
600	222	732	770	20	M36	410

Filter valve series

过滤器系列

BOLON FLUID CONTROL (ZHEJIANG) CO., LTD.



www.bolontv.com

● 产品概述 Product overview

该产品是各种管道系统中不可缺少的辅助元件，主要作用是过滤介质中的杂质，保护管道上的设备及配件免受损失和堵塞等情况的发生，还有提高产品纯度，净化气体等功能。当流体进入置有一定规格滤网的滤筒后，其杂质被阻挡，而清洁的滤液则由过滤器出口排出，当需要清洗时，只要将可拆卸的滤筒取出，处理后重新装入即可，另外，过滤器的过滤网内件可以更换，而且Y型过滤器具备体积小、滤眼细、阻力小、效率高、安装检修方便、成本低、能满足各种管路需求等特点。

This product is an indispensable auxiliary component in various pipeline systems. Its main function is to filter impurities in the medium, protecting the equipment and accessories on the pipeline from damage and blockage, as well as improving the purity of the product and purifying the gas. When the fluid enters the filter cylinder with a certain specification filter screen, the impurities are blocked, while the clean filtrate is discharged from the outlet of the filter. When cleaning is needed, simply remove the detachable filter cylinder and handle it for reinstallation. Additionally, the filter screen components of the filter can be replaced, and the Y-type filter has the characteristics of small size, fine filter holes, low resistance, high efficiency, convenient installation and maintenance, low cost, and the ability to meet the needs of various pipelines.

● 执行标准 Executive standards

设计规范 Design Specification	结构长度 Structural length	连接法兰 Connecting flange	试验与检验 Test and Inspection	产品标识 Product identification	供货规范 Supply Specification
GB/T 21637	GB/T 12221	JB/T79	JB/T 9092	GB/T 12220	JB/T 7928

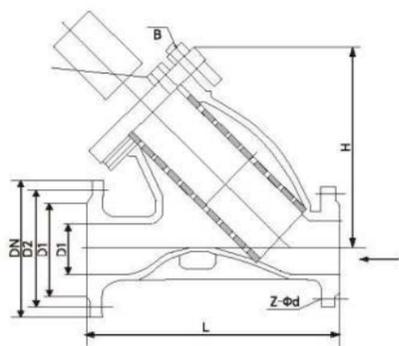
● 主要性能规范 Main performance specifications

产品别名 Working pressure difference	介质温度 Medium temperature	工作压差 Product alias	适用范围 Scope of application	连接形式 Connection form	类型 Type	流动方向 Flow direction	压力环境 Pressure environment
Y型过滤器 Y-type filter	300(C)	2KG	液体过滤 Liquid filtration	法兰 Flange	直角式 Right Angle formula	单向 One-way	常压 Atmospheric pressure

● 主要零部件材质 Main component materials

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, CZ100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M35-2, M35C, M30H, N04400, N05500
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy C-4, Hastelloy G, Hastelloy G30 N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030

GL41W
Y型过滤器
Y-type filter



●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions

单位Unit:mm

DN	L	D	D1	D2	b	Z-Φd	H
15	130	95	65	45	14-2	4-14	60
20	145	105	75	55	14-2	4-14	70
25	150	115	85	65	14-2	4-14	70
32	180	135	100	78	16-2	4-18	75
40	200	145	110	85	16-3	4-18	90
50	220	160	125	100	16-3	4-18	105
65	250	180	145	120	18-3	4-18	150
80	280	195	160	135	20-3	8-18	175
100	300	215	180	155	20-3	8-18	200
125	350	245	210	185	22-3	8-18	205
150	380	280	240	210	24-3	8-23	260
200	480	335	295	265	26-3	12-23	300
250	550	405	355	320	30-3	12-25	380
300	610	460	410	375	30-4	12-25	410

Regulating valve series

调节阀系列

BOLON FLUID CONTROL (ZHEJIANG) CO., LTD.



ZJHP/M
气动薄膜单座/套筒调节阀
Pneumatic thin film single seat/sleeve regulating valve

ZJHP/M
气动薄膜单座/套筒调节阀
Pneumatic thin film single seat/sleeve regulating valve

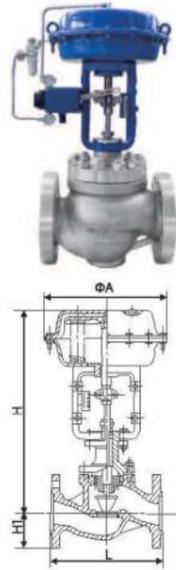
● 产品概述及特点 Product overview and features

ZJHP/M型气动薄膜套筒调节阀采用套筒导向，压力平衡型双密封面，但密封面结构。是一种力平衡的调节阀，阀体结构紧凑，流体通道呈S流线型优点为压降损失小，流量大，可调范围宽，流量特性精度高。调节阀配用多弹簧式薄膜执行机构，具有结构小输出力大，更适用于要求动态稳定性好，噪音低，空化/闪蒸等，高低温，高压差流体控制条件下使用。

1. 采用平衡式阀芯结构，轴向不平衡力小，允许压差大，稳定性好。
2. 套筒互换性强，拆装方便，容易维修。
3. 全金属阀芯结构适合多种工作场合，可阀芯达到VI级泄露标准。
4. 阀体按流体力学原理设计等截面底流阻流型，可调范围大，固有可调比为50。
5. 执行机构采用多弹簧结构，高度减小30%、重量减轻30%。

The ZJHP/M pneumatic thin film sleeve regulating valve adopts a sleeve guided, pressure balanced double sealing surface, but with a sealing surface structure. It is a force balanced regulating valve with a compact valve body structure and an S-shaped fluid channel. Its advantages include small pressure drop loss, large flow rate, wide adjustable range, and high accuracy in flow characteristics. The regulating valve is equipped with a multi spring diaphragm actuator, which has a small structure and large output force, making it more suitable for use under fluid control conditions such as good dynamic stability, low noise, cavitation/flash evaporation, high and low temperature, and high pressure difference.

1. Adopting a balanced valve core structure, the axial unbalance force is small, allowing for a large pressure difference and good stability.
2. The sleeve has strong interchangeability, is easy to disassemble and repair.
3. The all metal valve core structure is suitable for various working environments and can meet the VI level leakage standard.
4. The valve body is designed according to the principles of fluid mechanics with equal cross-sectional bottom flow resistance, with a large adjustable range and an inherent adjustable ratio of 50.
5. The actuator adopts a multi spring structure, reducing height by 30% and weight by 30%.



● 表1 标准技术参数 Table 1 Standard technical parameters

阀体 Valve body	
型式 Type	直通铸造球形阀 Straight casting ball valve
阀尺寸 Valve size	DN20 ~ 200
额定压力 Rated pressure	PN16, PN40, PN63, PN100, PN160, PN250, PN420
连接形式 Connection form	法兰(标准型)螺纹、焊接(需用户指定) Flange (standard type) thread, welding (to be specified by the user)
法兰标准 Flange standard	钢制法兰按Steel flange according to GB9113-2000, HG/T20592
密封面型式 Sealing surface type	PN16为凸面, PN40、63、100为凹凸面 PN16 is convex, PN40, 63, 100 is concave convex
法兰端面距 Flange face distance	GB/T12221-2005
材料 Material Science	ZG230-450, ZG1Cr18Ni9Ti, ZG1Cr18Ni2Mo2Ti

阀内组件 Valve components	
结构形式 Structural style	压力平衡型 Pressure balanced type
阀芯 Spool	柱塞型 Plunger type
套筒 Sleeve	金属密封: 等百分比特性(%C)、线性特性(LC) 软密封: (阀芯材料: 增强聚四氟乙烯)、 等百分比特性(%C)、线性特性(LC) Metal seal: equal percentage characteristic (%C) linear characteristic (LC) Soft seal: (valve core material: reinforced polytetrafluoroethylene) Equal percentage characteristic (%C), linear characteristic (LC)

阀作用: (阀芯正装) Valve function: (valve core is installed)	
气关式FO (配正作用执行机构) Air tight FO (with positive actuator)	当气源故障时, 执行机构弹簧将阀打开 When the air supply fails, the actuator spring opens the valve
气开式FC (配反作用执行机构) Air operated FC (with reaction actuator)	当气源故障时, 执行机构弹簧将阀关闭 When the air supply fails, the actuator spring closes the valve

执行机构 Executing agency	
型式 Type	多弹簧式薄膜执行机构 Multi spring film actuator ZH _A ^Δ -22, ZH _B ^Δ -23, ZH _B ^Δ -45, ZH _B ^Δ -56
阀作用 Valve action	正作用, 反作用 Positive effect, Positive effect
结构形式 Structural style	标准型(-20°C~+200°C)、低温型(-60°C~-196°C) 散热型(-40°C~+450°C)、波纹管密封型 Standard (-20°C~+200°C), low temperature (-60°C~-196°C) Heat dissipation type (-40°C~+450°C), bellows sealed type
压盖型式 Gland type	压板式 Pressboard type
填料 Filler	V型聚四氟乙烯填料, 柔性石墨填料 V-type polytetrafluoroethylene packing, flexible graphite packing
垫片 Shim	型式, 齿型和平面 Type, tooth and flat material, F4/改性F4, 不锈钢+石墨 Material, F4 / modified F4, stainless steel + graphite
膜片材料 Diaphragm material	丁腈橡胶夹增强涤纶织物 Polyester fabric reinforced by nitrile rubber clip
弹簧量程 Spring range	20~100KPa, 40~200KPa, 80~240KPa
供气压力 Gas supply pressure	0.14~0.4MPa
信号接口 Signal interface	内螺纹M16 x 1.5 Internal thread m16x1.5
环境温度 Ambient temperature	-30°C~+70°C

附件(根据要求配置) Accessories (as required)	
定位器, 空气过滤减压阀, 手轮机构, 限位开关, 电磁阀, 阀位变送器, 继电器, 保持阀, 其它。 Positioner, air filter pressure reducing valve, handwheel mechanism, limit switch, Solenoid valve, valve position transmitter, relay, holding valve, others.	

● 表2 执行标准 Table 2 Performance standard

设计制造标准 Design and manufacturing standards	结构长度标准 Structure length standard	法兰标准 Flange standard	压力温度等级 Pressure temperature class	试验检验标准 Test and inspection standards
GB/T4213	GB/T12221	HG/T20592	GB/T12224	GB/T4213, GB/T13927

● 表3 主要性能规范 Table 3 Main performance specification

流量特性 Flow characteristics	快开, 等百分比 Go ahead, equal percentage
可调范围 Adjustable range	50:1
阀座泄漏率 (对于额定KV值%) Seat leakage rate (% for rated KV)	金属密封: 小于0.01%(ANSI B16.104-1976 VI级及小于0.001%为选项) 软密封: 小于0.0001%以下(以下ANSI B16.104-1976 VI级) Metal seal: less than 0.01% (ANSI B16.104-1976 VI and less than 0.001% are options) Soft seal: less than 0.0001% (below ANSI B16.104-1976 VI)
回差 Return error	小于全行程的1%(带定位器), 小于全行程的3%~5%(不带定位器) Less than 1% of full stroke (with positioner), less than 3%~5% of full stroke (without positioner)
基本误差 Fundamental error	小于全行程的±1%(带定位器) 小于全行程的±5%(不带定位器) Less than ±1% of full stroke (with positioner) less than ±5% of full stroke (without positioner)
油漆颜色 Paint color	调节阀的气动执行机构和阀的表面应涂漆, 不锈钢和铜的阀可不涂漆, 阀体上的箭头及文字涂红漆。用户指定色彩也可。 The pneumatic actuator and valve surface of the control valves shall be painted, stainless steel and copper valves may not be painted, and the arrow and text on the valve body shall be painted with red paint. User specified colors are also available.
驱动形式 Driving form	气动 Pneumatic

● 表4 KV值行程 Table 4 KV value travel

公称口径 DN(mm) Nominal diameter	额定流量系数 KV Rated flow coefficient KV		执行机构型号 Actuator model	膜片有效面积 m ² Effective area of diaphragm	额定行程 (mm) Rated stroke
	线性 Linear	等比 Geometric ratio			
20	6.9	6.3	ZH _A ^Δ -22	350	16
25	11	10			
32	17	16			
40	27	25			
50	44	40	ZH _A ^Δ -23	350	25
65	69	63			
80	110	100			
100	176	160			
125	275	250	ZH _A ^Δ -34	560	40
150	440	400			
200	690	630			
			ZH _A ^Δ -45	900	60

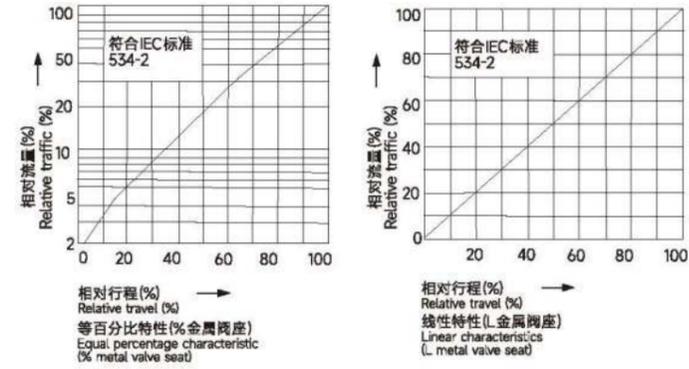
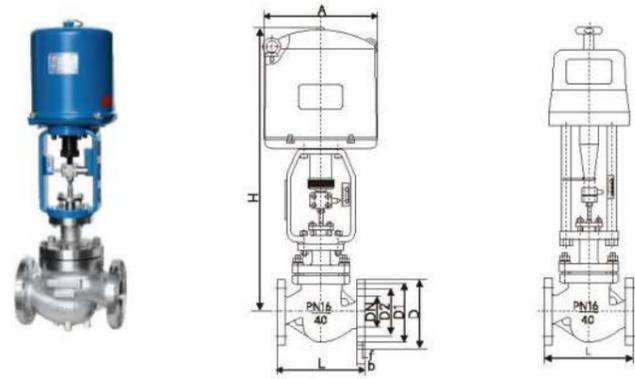
● 表5 主要外形尺寸和连接尺寸 Table 5 Main shape size and connection size

公称口径 DN(mm) Nominal diameter	L			H		H1				ΦA
	PN6 PN16	PN40	PN64	普通 Ordinary	高温 High temperature	PN6	PN16	PN40	PN64	
25	181	194	206	398	548	45	52	65		285
32	184	197	210	410	560	50	57	70		
40	222	235	251	455	620	65	75	85		
50	254	267	286	457	627	70	82	90		
65	276	292	311	610	790	80	92	100		360
80	298	317	337	622	807	95	100	107		
100	352	368	394	640	850	105	110	125		
150	451	473	508	870	1130	132	142	150	172	
200	550	550	650	890	1150	160	170	187	207	470
250	650	670	690	1203	1523	187	202	225	235	
300	740	770	800	1234	1554	220	230	257	265	

注: 阀体法兰端面距可按用户指定标准制造, 如: ANIS, JIS, DIS等标准, 本表不带附件, 可加顶/侧装手轮。
Note: The distance between the valve body flange end face can be manufactured according to user specified standards, such as ANIS, JIS, DIS, etc.
This table does not come with attachments and can be equipped with top/side mounted handwheels
本产品尺寸外观仅供参考, 订货尺寸请具体核实。Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

ZDLM
电动/电子式套筒调节阀
Electric / electronic sleeve regulating valve

ZDLM
电动/电子式套筒调节阀
Electric / electronic sleeve regulating valve



●产品概述及特点Product overview and features

ZDLM电动/电子式套筒调节阀采用套筒导向, 压力平衡型双密封面、单密封面结构, 是一种力平衡的调节阀, 阀体结构紧凑, 流体通道呈S流线型, 优点为压降损失小, 流通量大, 可调节范围宽, 流量特性精度高。调节阀配用接收ON-OFF或4-20mADC或1-5V的直流信号进行比例动作的小型、坚固、高精度的执行机构, 更适用于要求动态稳定性好, 噪音低、空化/闪蒸等, 高低温, 高压差流体控制条件下使用。

The ZDLM electric/electronic sleeve regulating valve adopts sleeve guidance, a pressure-balanced dual-sealed surface and single-sealed surface structure. It is a force-balanced regulating valve with a compact valve body structure. The fluid channel is in an S-flow line shape. Its advantages include low pressure drop loss, large flow capacity, wide adjustable range, and high flow characteristic accuracy. The regulating valve is equipped with a small, sturdy, and high-precision actuator that receives DC signals such as ON-OFF or 4-20mADC or 1-5V for proportional action. It is more suitable for use in conditions requiring good dynamic stability, low noise, cavitation/flashing, high/low temperature, and high pressure difference fluid control.

●表1 标准技术参数 Table 1 Standard technical parameters

阀体 Valve body		执行机构 Executing agency	
型式 Type	直通单座铸球形阀 Straight through single seat cast spherical valve	型式 Type	电动(电子)式执行机构 Electric (Electronic) actuator 381LSA/XA-08, 381LSA/XA-20, 381LSB/XB-30, 381LSB/XB-50, 381LSC-65, 381LSC-99, 381LSC-160, 381LSC-260, 可选其它执行机构 Optional other execution mechanisms
阀尺寸 Valve size	DN20 - 200	阀作用 Valve action	正作用, 反作用 Positive effect, Positive effect
额定压力 Rated pressure	PN16, PN40, PN63, PN100, PN160, PN250, PN420	控制动作 Control action	比例控制或ON-OFF控制 Proportional control or on-off control
连接形式 Connection form	法兰(标准型)、螺纹、焊接(须用户指定) Flange (standard type), thread, welding (to be specified by the user)	输入信号 Input signal	4-20mADC或1-5VDC须选择输入信号 "断"时调节阀的位置(保位、全开、全关) 4-20mADC or 1-5VDC must select the position of the control valve when the input signal is "off" (hold, full open, full close)
法兰标准 Flange standard	钢制法兰按Steel flange according to GB9113, HG/T20592	电源 Power Supply	AC220V, 50HZ
密封面型式 Sealing surface type	PN16为凸面, PN40、63、100为凹凸面 PN16 is convex, PN40, 63, 100 is concave convex	输出信号 Output signal	4-20mADC(负载电阻500Ω以下) 4-20mADC (load resistance below 500 Ω)
法兰端面距 Flange face distance	GB/T12221	功耗 Power waste	A型/50VA, B型/150VA, C型/220VA
材料 Material Science	ZG230-450, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti	保护等级 Protection level	IP55、可选IP65-IP68
压盖型式 Gland type	压板式 Pressboard type	出线连接 Outlet connection	普通S型G1/2, 防爆X型G3/4 Ordinary s type G1/2, explosion-proof X type G3/4
填料 Filler	V型聚四氟乙烯填料, 柔性石墨填料 V-type polytetrafluoroethylene packing, flexible graphite packing	环境温度 Ambient temperature	无空间加热器 No space heater: -10°C ~ +60°C 有空间加热器 Space heater: -35°C ~ +60°C 防爆X型 Explosion proof X type: -10°C ~ +40°C
垫片 Shim	齿型和平面Type, tooth and flat 材料, F4/改性F4, 不锈钢+石墨 Material, F4 / modified F4, stainless steel + graphite	环境温度 Ambient temperature	普通S型: -10°C ~ +60°C 防爆X型: -10°C ~ +40°C
阀内组件 Valve components		环境温度 Ambient temperature	普通S型: -10°C ~ +60°C 防爆X型: -10°C ~ +40°C
阀芯 Spool	柱塞型 Plunger type	隔爆等级 Flameproof level	Exd II Bt4
套筒 Sleeve	金属密封: 等百分比特性(%C)、线性特性(LC) 软密封: (材料: 增强聚四氟乙烯)、 等百分比特性(%C)、线性特性(LC) Metal seal: equal percentage characteristic (% C), linear characteristic (LC) Soft seal: (material: reinforced polytetrafluoroethylene) Equal percentage characteristic (% C), linear characteristic (LC)	过载保护 Overload protection	A、B型任选, C型必配 Optional type A,B, mandatory type C
		手动装置 Manual device	带手柄 Handle with handle

●表2 执行标准 Table2 Performance standard

设计制造标准 Design and manufacturing standards	结构长度标准 Structure length standard	法兰标准 Flange standard	压力温度等级 Pressure temperature class	试验检验标准 Test and inspection standards
JB/T7387	GB/T12221	HG/T20592	GB/T12224	JB/T7387

●表3 KV值 行程及动作时间 Table3 KV value travel and action time

公称口径 DN(mm) Nominal diameter	阀座尺寸 Seat size d(mm)	额定流量系数KV Rated flow coefficient KV		电动执行机构型号 Electric execution Institution model	输出推力 Output thrust (N)	额定行程 Rated stroke (mm)	动作时间 Action time (s)
		线性 Linear	等比 Equal ratio				
20	20	6.9	6.3	381LSA -08/20	800/2000	16	3.8/7.6
25	25	11	10				
32	32	17	16				
40	40	27	25	381LSB -30/50	3000/5000	25	7.2/14.7
50	50	44	40				
65	65	69	63				
80	80	110	100	381LSB -50/SC-65	5000/6500	40	23.5/14.3
100	100	176	160				
125	125	275	250				
150	150	440	400	381LSC -99/160	10000/16000	60	30/60
200	200	690	630				

●表4 主要外形尺寸和连接尺寸 Table4 Main shape size and connection size

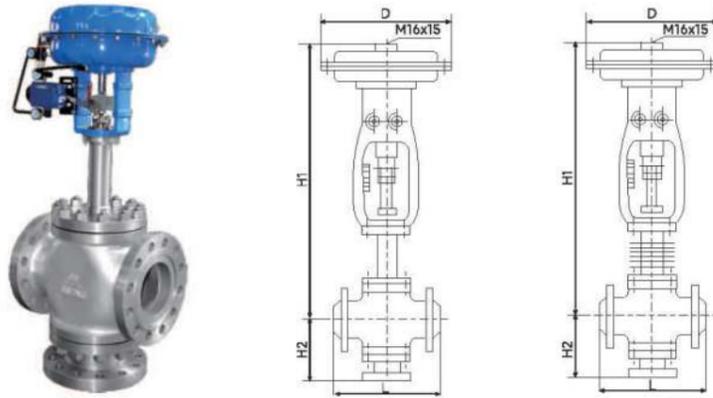
单位Unit: mm

公称口径 DN(mm) Nominal diameter	L			H 普通 Ordinary	法兰标准按JB79 PN1.6MPa Flange standard according to JB79 PN1.6MPa					
	PN16	PN40	PN64		D	D1	D2	b	f	N-Φ
25	184	197	210	420	115	85	65	14	2	4-14
32	200	205	215	480	135	100	78	16	2	4-18
40	222	235	251	600	145	110	85	16	3	4-18
50	254	267	286	670	160	125	100	16	3	4-18
65	276	292	311	830	180	145	120	18	3	4-18
80	298	317	337	835	195	160	135	20	3	8-18
100	352	368	394	860	215	180	155	20	3	8-18
150	451	473	508	1065	280	240	210	24	3	8-23
200	550	550	650	1110	335	295	265	26	3	12-23
250	650	680	703	1225	405	355	320	30	3	12-25
300	740	760	772	1285	460	410	375	30	4	12-25
350	845	900	-	1375	520	470	435	34	4	16-25

备注: 本产品尺寸外观仅供参考, 订货尺寸请具体核实。Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

ZJHQ/X
气动薄膜三通调节阀
Moving film three-way regulating valve

ZJHQ/X
气动薄膜三通调节阀
Moving film three-way regulating valve



●产品概述及特点Product overview and features

ZJHQ/X型气动薄膜三通调节阀主要用于将一股进口流体分成二股出口流体或者把二股进口流体合成一股出口流体。三通阀分为(ZJHQ)合成流调节阀,(ZJHX)分流调节阀。阀尺寸, 压差较小时合流阀也可以作为分流阀用, 但阀体尺寸大, 压差高的场合勿用分流阀。

ZJHQ / X pneumatic thin film three-way regulating valve is mainly used to divide one stream of inlet fluid into two streams of outlet fluid or combine two streams of inlet fluid into one stream of outlet fluid. The three-way valve is divided into (ZJHQ) synthetic flow regulating valve and (ZJHX) shunt regulating valve. When the valve size and pressure difference are small, the confluence valve can also be used as a diverter valve. However, when the valve body size is large and the pressure difference is high, the diverter valve should not be used.

●表1 标准技术参数 Table 1 Standard technical parameters

阀体Valve body	
型式 Type	三通铸造球形阀 Three way cast spherical valve
阀尺寸 Valve size	DN25 ~ 200
额定压力 Rated pressure	PN16, PN40, PN63, PN100, PN160, PN250, PN420
连接形式 Connection form	法兰 Flange
法兰标准 Flange standard	钢制法兰按Steel flange according to GB9113, HG/T20592
密封面型式 Sealing surface type	PN16为凸面, PN40为凹凸面 PN16 is convex, PN40 is concave convex
法兰端面距 Flange face distance	GB/T12221
材料 Material Science	ZG230-450、ZG1Cr18Ni9Ti、 ZG1Cr18Ni12Mo2Ti
压盖型式 Gland type	压板式 Pressboard type
填料 Filler	V型聚四氟乙烯填料, 柔性石墨填料 V-type polytetrafluoroethylene packing, flexible graphite packing
垫片 Shim	型式, 齿型和平面Type, tooth and flat 材料, F4/改性F4, 不锈钢+石墨 Material, F4 / modified F4, stainless steel + graphite
阀内组件Valve components	
阀芯 Spool	三通线性或抛物线V型缺口阀芯 Three way linear parabolic V-notch valve core

执行机构Executing agency	
型式 Type	电动(电子)式执行机构Electric (Electronic) actuator 381LSA/XA-08, 381LSA/XA-20, 381LSB/XB-30, 381LSB/XB-50, 381LSC-65, 381LSC-99 381LSC-160, 381LSC-260
阀作用 Valve action	正作用, 反作用 Positive effect, Positive effect
控制动作 Control action	比例控制或ON-OFF控制 Proportional control or on-off control
输入信号 Input signal	4-20mADC或1-5VCD须选择输入信号 “断”时调节阀的位置(保位、全开、全关) 4-20mADC or 1-5VCD must select the position of the control valve when the input signal is "off" (hold, full open, full close)
电源 Power Supply	AC220V, 50HZ
输出信号 Output signal	4-20mADC(负载电阻500Ω以下) 4-20mADC (load resistance below 500 Ω)
功耗 Power waste	A型/50VA, B型/150VA, C型220VA
保护等级 Protection level	IP55
出线连接 Outlet connection	普通S型G1/2, 防爆X型G3/4 Ordinary s type G1/2, explosion-proof X type G3/4
环境温度 Ambient temperature	无空间加热器No space heater:-10°C ~ +60°C 有空间加热器Space heater:-35°C ~ +60°C 防爆X型Explosion proof X type:-10°C ~ +40°C
环境温度 Ambient temperature	普通S型95%以下, 防爆X型45-85% Ordinary S-type under 95%, explosion-proof X-type 45-85%
防爆等级 Flameproof level	Exd II Bt4
过载保护 Overload protection	A, B型任选, C型必配 Optional type A,B, mandatory type C
手动装置 Manual device	带手柄 Handle with handle

●表2 执行标准 Table2 Performance standard

设计制造标准 Design and manufacturing standards	结构长度标准 Structure length standard	法兰标准 Flange standard	压力温度等级 Pressure temperature class	试验检验标准 Test and inspection standards
GB/T4213	GB/T12221	HG/T20592	GB/T12224	GB/T4213、GB/T13927

●表3 KV值 行程 Table3 KV value travel

公称通径 DN(mm) Nominal diameter	阀座尺寸 Seat size d(mm)	额定流量系数KV Rated flow coefficient KV		执行机构型号 Model of actuator	膜片有效面积 Effective area of membrane (cm ²)	额定行程 Rated stroke (mm)
		合流型Confluent type	分流型Split type			
25	25	8.5	可用合流 结构代替 Nominal pressure	ZH ^A _B -22	350	16
32	32	13		ZH ^A _B -23	350	25
40	40	21				
50	50	34				
65	65	53	85	ZH ^A _B -34	560	40
80	80	85				
100	100	135	135	ZH ^A _B -45	900	60
125	125	210	210			
150	150	340	340			
200	200	535	535			

●表4 主要外形尺寸和连接尺寸 Table4 Main shape size and connection size

单位Unit: mm

公称通径 DN(mm) Nominal diameter	行程 Trip	D	合流Confluence									分流Shunt						
			L			H1		H2			L			H1		H2		
			PN16	PN40	PN64	普通型 Room temperature type	中温型 Medium temperature type	PN16	PN40	PN64	PN16	PN40	PN64	普通型 Room temperature type	中温型 Medium temperature type	PN16	PN40	PN64
25	16	325	185	190	200	615	763	160	150	150	185	190	200	615	763	140	150	160
32	16	325	200	200	210	622	773	150	160	160	200	200	210	622	773	150	160	170
40	25	325	220	220	235	625	776	160	170	170	220	220	235	625	776	160	170	180
50	25	325	250	255	265	640	791	180	190	190	250	255	265	640	791	180	190	200
65	40	410	275	285	295	861	1024	200	210	210	275	285	295	861	1024	200	210	220
80	40	410	300	310	320	879	1042	210	230	230	300	310	320	885	1050	225	250	265
100	40	410	350	360	370	873	1036	220	250	250	350	360	370	900	1060	245	275	285
125	60	495	410	430	440	1029	1244	260	300	300	410	430	440	1050	1265	285	320	325
150	60	495	450	465	475	1046	1261	280	320	320	450	465	475	1060	1275	305	340	345
200	60	495	550	560	570	1075	1290	320	380	380	550	560	570	1105	1320	350	400	410
250	100	600	635	660	670	1451	1320		474	474	635	660	670	1525	1800		540	540
300	100	600	720	740	770	1512	1560		584	584	720	740	770	1545	1820		612	612

备注: 本产品尺寸外观仅供参考, 订货尺寸请具体核实。Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

Discharge valve series

放料阀系列

BOLON FLUID CONTROL (ZHEJIANG) CO., LTD.



● 产品概述及特点 Product overview and features

放料阀主要用于反应器、储罐和其它容器的底部排料，借助于阀门底部法兰焊接于储罐和其它容器的底部，因此消除工艺介质通常在容器出口的残留现象。放料阀根据实际需要的情况，放底结构设计为平底型，阀体为V型，并提供提升和下降两种工作方式阀瓣。

- 1、上展式用于有搅拌器（除框式锚式）的反应釜放料。
- 2、上展式当手轮顺时针，阀杆上行，阀门关闭。
- 3、广泛应用于石油、冶金、化工、造纸更工业领域(化学液体、煤浆、矿浆等输送启闭放料用)。

The discharge valve is mainly used for discharging materials from the bottom of reactors, storage tanks and other containers. It is connected to the bottom of the storage tank and other containers through the bottom flange of the valve, thus eliminating the phenomenon of the process medium remaining at the container outlet. The discharge valve is designed with a flat-bottom structure according to the actual needs. The valve body is V-shaped and provides two working modes: lifting and lowering. The valve disc is also provided.

- 1.Upward expansion type is used for discharging materials in reaction vessels with agitators (excluding frame anchor type).
- 2.When the handwheel rotates clockwise, the valve stem rises and the valve closes.
- 3.Widely used in the fields of petroleum, metallurgy, chemical industry, papermaking, and other industrial sectors (for conveying opening and closing materials such as chemical liquids, coal slurry, and slurry).

● 执行标准 Performance standard

设计与制造 Design and manufacturing	结构长度 Face to face dimension	连接法兰 Connecting flange	压力-温度 Pressure temperature	检验与试验 Inspection and test
GB/T12235 HG/T3217	GB/T12221	GB/T9113 JB/T79	GB/T12224	GB/T13927

● 主要性能规范 Main performance specifications

工作压力 Working pressurer	1.6MPa
工作温度 Working temperature	≤175°C.不锈钢、≤320°C碳钢 ≤175°C.Stainless steel, ≤320°C carbon steel
工作介质 Working medium	水, 油液体, 酸碱等 water,oil,acid and alkali liquid etc
驱动形式 Driving form	手动、蜗轮、气动、电动 Manual,Worm gear,Pneumatic,Electric

● 主要零部件材质 Materials of main parts

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, CZ100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M35-2, M35C, M30H, N04400, N0550
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy C-4, Hastelloy G, Hastelloy G30, N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030

● 主要外形尺寸和连接尺寸 Main shape size and connection size

单位(Unit): mm

PN16											
DN(mm)	D	D1	D2	H	D0	DN(mm)	D	D1	D2	H	D0
25	115	85	65	225	160	80	195	160	135	445	250
32	135	100	78	300	160	100	215	180	155	535	280
40	145	110	85	340	180	125	245	210	185	585	300
50	160	125	100	345	180	150	280	240	210	665	360
65	180	145	120	425	220	200	335	295	265	800	500

备注: 本产品尺寸外观仅供参考, 订货尺寸请具体核实。

Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

www.bolontiv.com

FL45F/W
下展式放料阀
Down Spreading Discharge Valve

放料阀系列
Discharge valve series



●产品概述及特点 Product overview and features

放料阀主要用于反应器、储罐和其它容器的底部排料，借助于阀门底部法兰焊接于储罐和其它容器的底部，因此消除工艺介质通常在容器出口的残留现象。放料阀根据实际情况的需要，放底结构设计为平底型，阀体为V型，并提供提升和下降两种工作方式阀瓣。

- 1、下展式、柱塞式用于框式锚式搅拌器的反应釜放料。
- 2、下展式当手轮逆转，阀杆下降，阀门关闭。
- 3、广泛应用于石油、冶金、化工、造纸更工业领域(化学液体、煤浆、矿浆等输送启闭放料用)。

The discharge valve is mainly used for discharging materials from the bottom of reactors, storage tanks and other containers. It is connected to the bottom of the storage tank and other containers through the bottom flange of the valve, thus eliminating the phenomenon of the process medium remaining at the container outlet. The discharge valve is designed with a flat-bottom structure according to the actual needs. The valve body is V-shaped and provides two working modes: lifting and lowering. The valve disc is also provided.

1. The downward expansion type and plunger type are used for feeding the reaction kettle of the frame anchor agitator.
2. When the handwheel is reversed, the valve stem descends and the valve closes.
3. Widely used in the fields of petroleum, metallurgy, chemical industry, papermaking, and other industrial sectors for conveying opening and closing materials such as chemical liquids, coal slurry, and slurry).

●执行标准 Performance standard

设计与制造 Design and manufacturing	结构长度 Face to face dimension	连接法兰 Connecting flange	压力—温度 Pressure temperature	检验与试验 Inspection and test
GB/T12235 HG/T3217	GB/T12221-2005	GB/T9113	GB/T12224	GB/T13927

●主要性能规范 Main performance specifications

工作压力 Working pressure	1.6MPa
工作温度 Working temperature	≤175°C. 不锈钢、≤320°C 碳钢 ≤175°C. Stainless steel, ≤320°C carbon steel
工作介质 Working medium	水、油液体、酸碱等 water, oil, acid and alkali liquid etc
驱动形式 Driving form	手动、蜗轮、气动、电动 Manual, Worm gear, Pneumatic, Electric

●主要零部件材质 Materials of main parts

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, CZ100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M38-2, M35C, M30H, N04400, N0550
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy C-4, Hastelloy G, Hastelloy G30, N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030

●主要外形尺寸和连接尺寸 Main shape size and connection size

单位(Unit): mm

PN1.6MPa											
DN(mm)	D	D1	D2	H	DO	DN(mm)	D	D1	D2	H	DO
25	115	85	65	225	160	80	195	160	135	445	250
32	135	100	78	300	160	100	215	180	155	535	280
40	145	110	85	340	180	125	245	210	185	585	300
50	160	125	100	345	180	150	280	240	210	665	360
65	180	145	120	425	220	200	335	295	265	800	500

备注：本产品尺寸外观仅供参考，订货尺寸请具体核实。

Note: The size and appearance of this product are for reference only. Please verify the order size specifically.

Plug valve
series
旋塞阀系列

BOLON FLUID
CONTROL
(ZHEJIANG)
CO., LTD.



FL45F/W
旋塞阀
Plug valve

FL45F/W
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●产品概述Product overview

旋塞阀是关闭件为柱塞形的阀门，通过旋转90°使阀塞上的通道口与阀体上的通道口相通或分开，实现开启或关闭的一种阀门。
公司所生产的旋塞阀产品具有介质无沉积、防结晶、耐腐蚀、耐高温高压等特点，是管线系统控制介质的理想阀门，该产品填补国内技术空白，产品技术处于国内同类产品领先水平。目前已广泛应用于化工、军工、船舶、海水淡化、冶金、造纸、纺织、电力等行业领域。

- 1、结构简单，体积小重量轻：它零件少、结构紧凑，安装和维修都更省事，尤其适合空间有限的地方。
- 2、流体阻力小，效率高：流道设计得特别通畅，介质通过时压力损失小，能提升输送效率。
- 3、启闭迅速，操作灵活：转90°就能开关，特别快，而且介质流向不受限制，安装方向也自由。
- 4、密封性能好，寿命长：密封面设计合理，加上高精度加工，密封很可靠，用起来更省心。
- 5、流量控制精准：通过旋转旋塞就能精确调节通道截面积，适合需要精细流量控制的场景。
- 6、无振动，噪声小：运行平稳，基本没有振动和噪音，对工作环境更友好。
- 7、多材质适配，耐腐蚀：阀体材质选择多，比如不锈钢、碳钢、衬氟等，能适应不同腐蚀性介质。

A plug valve is a type of valve where the closing element is in the form of a cylinder. By rotating 90°, the passage on the valve plug can be made to connect or separate with the passage on the valve body, thereby achieving opening or closing.

The plug valve products produced by our company have features such as no deposition of media, anti-crystallization, resistance to strong corrosion, and high temperature and high pressure resistance. They are ideal valves for controlling media in pipeline systems. This product has filled the domestic technological gap and its product technology is at the leading level among similar domestic products. It has been widely applied in industries such as chemical engineering, military industry, ships, seawater desalination, metallurgy, papermaking, textiles, power, etc.

1. Simple structure, small size and light weight: It has fewer parts, compact structure, and is easier to install and maintain, especially suitable for places with limited space.
2. Low fluid resistance and high efficiency: The flow channel is designed to be particularly smooth, with minimal pressure loss when the medium passes through, which can improve transportation efficiency.
3. Quick opening and closing, flexible operation: It can be turned 90° to switch, especially fast, and the flow direction of the medium is not restricted, and the installation direction is also free.
4. Good sealing performance and long service life: The sealing surface design is reasonable, coupled with high-precision processing, the sealing is very reliable, and it is more worry free to use.
5. Accurate flow control: The channel cross-sectional area can be precisely adjusted by rotating the plug, suitable for scenarios that require precise flow control.
6. No vibration, low noise: runs smoothly, with almost no vibration or noise, making it more friendly to the working environment.
7. Multi material adaptation and corrosion resistance: The valve body material selection is diverse, such as stainless steel, carbon steel, fluorine lining, etc., which can adapt to different corrosive media.

●执行标准 Performance standard

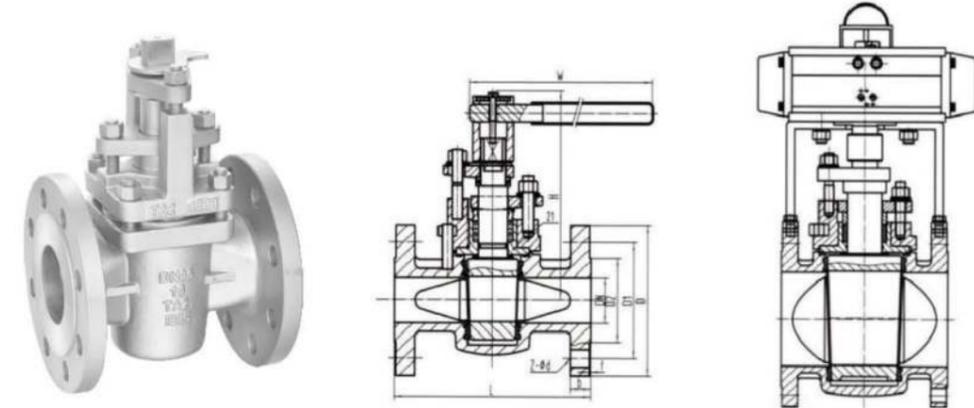
设计制造标准 Design and manufacturing standards	结构长度标准 Structure length standard	连接法兰标准 Connection flange standard	试验检验标准 Test and inspection standards
GB/T22130	GB/T12221	GB/T9113	GB/T13927 GB/T26480

●性能规范 Performance specification

公称压力 Nominal pressure PN(MPa)	试验压力 Test pressure PS (MPa)		工作压力 P(MPa) Working pressure	适用介质 Applicable Medium	工作温度(°C) Working temperature (°C)	驱动形式 Driving form
	壳体 Housing	密封 Seal				
1.0	1.5	1.1	1.0	非腐蚀、弱腐蚀 Non corrosive, weakly corrosive	≤150	手动、气动、电动 Manual, Pneumatic, Electric

●主要零部件材质 Main component materials

名称 Name	材料 Material
钛及钛合金 Titanium and titanium alloys	ZTA1, ZTA2, ZTA3, ZTA9, ZTA10, ZTC4, TA1, TA2, TA3, TA9, TA10, TC4 Titanium Gr2, Gr3, Gr5, Gr6, Gr7, Gr12 Titanium GrC2, GrC3, GrC5, GrC6, Ti-Pd7B, GrC12 Titanium GrF2, GrF3, GrF5, GrF6, GrF7, GrF12
镍及镍合金 Nickel and nickel alloys	N6, C2100, Nickel 200., Nickel 201, NO2200, NO2201
锆材 Zirconium material	Zirconium 702, Zirconium 705, Zr702, Zr705, 702C, 705C, R60702, R60705
蒙乃尔合金 Monel alloy	Monel400, MonelK500, M35-1, M35-2, M35C, M30H, N04400, N05500
哈氏合金 Hastelloy alloy	Hastelloy B, Hastelloy B-2, Hastelloy C276, Hastelloy C-22, Hastelloy G, Hastelloy G30 N12MV, N7M, CW12MV, CX2MW, CW2M N10001, N10665, N10276, N06022, N06455, N06007, N06030



●主要外形尺寸及连接尺寸 Main external dimensions and connection dimensions

单位(Unit): mm

国标法兰式 PN(MPa) DN(mm)	X(3, 6, 9)43F-16/25/40/63/100C(P, R, 1, H, V, A)							
型号	L	D	D1	D2	b	f	Z-d	
1.6MPa	15	108	95	65	45	16	2	4-14
	20	117	105	75	58	18	2	4-14
	25	127	115	85	68	18	2	4-14
	32	140	140	100	78	18	2	4-18
	40	165	150	110	88	18	2	4-18
	50	178	165	125	102	18	2	4-18
	65	190	185	145	122	18	2	8-18
	80	203	200	160	138	20	2	8-18
	100	229	220	180	158	20	2	8-18
	125	254	250	210	188	22	2	8-18
	150	267	285	240	212	22	2	8-22
	200	292	340	295	268	24	2	12-22
250	330	405	355	320	26	2	12-26	
300	356	460	410	378	28	2	12-26	
350	686	520	470	438	30	2	16-26	
400	762	580	525	490	32	2	16-30	
450	864	640	585	550	40	2	20-30	
500	914	715	650	610	44	2	20-33	
600	1067	840	770	725	54	2	20-36	
2.5MPa	15	140	95	65	45	16	2	4-14
	20	152	105	75	58	18	2	4-14
	25	165	115	85	68	18	2	4-14
	32	178	140	100	78	18	2	4-18
	40	190	150	110	88	18	2	4-18
	50	216	165	125	102	20	2	4-18
	65	241	185	145	122	22	2	8-18
	80	283	200	160	138	24	2	8-18
	100	305	235	190	162	24	2	8-22
	125	381	270	220	188	26	2	8-26
	150	403	300	250	218	28	2	8-26
	200	419	360	310	278	30	2	12-26
250	457	425	370	335	32	2	12-30	
300	533	485	430	395	34	2	16-30	
350	762	555	490	450	38	2	16-33	
400	838	620	550	505	40	2	16-36	
450	914	670	600	555	46	2	20-36	
500	991	730	660	615	48	2	20-36	
600	1143	845	770	720	48	2	20-39	
4.0MPa	15	140	95	65	45	16	2	4-14
	20	152	105	75	58	18	2	4-14
	25	165	115	85	68	18	2	4-14
	32	178	140	100	78	18	2	4-18
	40	190	150	110	88	18	2	4-18
	50	216	165	125	102	20	2	4-18
	65	241	185	145	122	22	2	8-18
	80	283	200	160	138	24	2	8-18
	100	305	235	190	162	24	2	8-22
	125	381	270	220	188	26	2	8-26
	150	403	300	250	218	28	2	8-26
	200	419	360	310	278	30	2	12-26
250	457	425	370	335	32	2	12-30	
300	533	485	430	395	34	2	16-30	
350	762	555	490	450	38	2	16-33	
400	838	620	550	505	40	2	16-36	
450	914	670	600	555	46	2	20-36	
500	991	730	660	615	48	2	20-36	
600	1143	845	770	720	48	2	20-39	
6.4MPa	15	165	95	75	45	20	2	4-14
	20	190	105	90	58	22	2	4-18
	25	216	115	100	68	24	2	4-18
	32	229	140	110	78	28	2	4-22
	40	241	150	125	88	26	2	4-22
	50	292	165	135	102	26	2	4-22
	65	330	185	160	122	26	2	8-22
	80	356	200	170	138	28	2	8-22
	100	432	235	200	162	30	2	8-26
	125	508	270	240	188	34	2	8-30
	150	559	300	280	218	36	2	8-33
	200	660	360	345	285	42	2	12-36
250	787	425	400	345	46	2	12-36	
300	838	485	460	410	42	2	16-36	
350	889	555	525	465	56	2	16-39	
400	991	620	585	535	60	2	16-42	
15	165	105	75	45	20	2	4-14	
20	190	130	90	58	22	2	4-18	
25	216	140	100	68	24	2	4-18	

常用不锈钢元素表
Common Stainless Steel Element List

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Common Stainless Steel Element List

钢号	对应牌号	化学成分%											
		C≤	Mn≤	P≤	S≤	Si≤	Cr	Ni	Mo	Cu	N	Nb	其它
F44	S31254/254SMO/ 1.4547/CK3MCuN	0.020	1.00	0.030	0.010	0.80	19.5-20.5	17.5-18.5	6.0-6.5	0.5-1.0	0.18-0.22		
GH2132	SUH660/S66286/1.4980/ 0Cr15Ni25Ti2MoAlVB	0.080	2.00	0.040	0.030	1.00	13.5-16.0	24.0-27.0	1.0-1.5		V:0.10-0.50		Al:≤0.35 Ti:1.90-2.35B:≤0.010
GH3030	GH30	0.120	0.70	0.030	0.020	0.80	19.0-22.0	基		0.20			Al:≤0.15 Ti:0.15-0.35Fe:≤1.50
GH3039	GH39	0.080	0.40	0.020	0.012	0.80	19.0-22.0	基	1.8-2.3		0.90-1.30		Al:0.35-0.75 Ti:0.35-0.75Fe:≤3.0
17-4PH	SUS630/1.4542/ 0Cr17Ni4Cu4Nb/S17400	0.070	1.00	0.040	0.030	1.00	15.0-17.5	3.0-5.0			3.0-5.0	0.15-0.45	
17-7PH	SUS631/1.4568/ 0Cr17Ni7Al/S17700	0.090	1.00	0.040	0.030	1.00	16.0-18.0	6.5-7.75					:0.79Al:1.50
15-7PH	SUS632/ 0Cr15Ni7Mo2Al/S15700	0.090	1.00	0.040	0.030	1.00	14.0-16.0	6.5-7.75	2.0-3.0				:0.79Al:1.50
15-5PH	XM-12/05Cr15Ni5Cu4Nb /S15500	0.070	1.00	0.040	0.030	1.00	14.0-15.5	3.5-5.5			2.5-4.5	0.15-0.45	
F51	2205/S31803/1.4462/ 00Cr22Ni5Mo3N	0.030	2.00	0.030	0.020	1.00	21.0-23.0	4.5-6.5	2.5-3.5		0.08-0.20		
F52	S32950	0.030	2.00	0.035	0.010	0.60	26.0-29.0	3.5-5.2	1.0-2.5		0.15-0.25		
F53	2507/S32750/1.4410/ 1.4469/00Cr25Ni7Mo4N	0.030	1.20	0.035	0.020	0.80	24.0-26.0	6.0-8.0	-3.0≤5.0	0.50	0.24-0.32		
F55	S32760/1.4501/1.4508/ ZERON100/	0.030	1.00	0.030	0.010	1.00	24.0-26.0	6.0-8.0	3.0-4.0	0.50-1.0	0.20-0.30		W:0.50-1.00
F60	S32205/00Cr23Ni5Mo3N	0.030	2.00	0.030	0.020	1.00	22.0-23.0	4.5-6.5	3.0-3.5		0.14-0.20		
F61	S32550/1.4507/ 00Cr25Ni6Mo3CuN/329J2L	0.040	1.50	0.040	0.030	1.00	24.0-27.0	4.5-6.5	2.9-3.9	1.5-2.5	0.10-0.25		
329	S32900/SUS329J1/ 1.4460/0Cr26Ni5Mo2	0.080	1.50	0.040	0.030	1.00	23.0-28.0	3.0-6.0	1.0-3.0				
Nitronic60	S21800	0.100	7.0-9.0	0.060	0.030	3.5-4.5	16.0-18.0	8.0-9.0			0.08-0.18		
XM-19	S20910/Nitronic50	0.060	4.0-6.0	0.040	0.030	1.00	20.5-23.3	11.5-13.5	1.5-3.0		0.20-0.40	0.10-0.30	V:0.10-0.30
S31050	310MoLN/1.4466/725LN/ 00Cr25Ni22Mo2N	0.030	2.00	0.030	0.015	0.40	24.0-26.0	21.0-23.0	2.0-3.0		0.10-0.16		
C4	ZGO3Cr14Ni14Si4	0.030	0.80	0.035	0.025	3.5-4.5	13.0-15.0	13.0-15.0					
A4	0Cr17Mn13Mo2N	0.080	12-15	0.045	0.020	0.70	16.5-18.5		1.8-2.2		0.20-0.30		
F91	10Cr9Mo1VNbN90901	0.08-0.12	0.3-0.6	0.020	0.010	0.2-0.5	8.0-9.5	≤0.40	0.85-1.05	≤0.02	0.03-0.07	0.06-0.10	V:0.18-0.25 Ti:≤0.01Zr:≤0.01
F347	1.4550/0Cr18Ni11Nb/CF8C	0.080	2.00	0.045	0.030	1.00	17.0-19.0	9.0-13.0			≥10xC		
F321	1.4541/0Cr18Ni10Ti	0.080	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0					T:5xC-0.70
321	1Cr18Ni9Ti	0.120	2.00	0.035	0.030	1.00	17.0-19.0	8.0-11.0					T:5xC-0.80
318	3Cr17Ni7Mo2N	0.22-0.3	1.00	0.035	0.030	1.0-1.5	16.0-18.0	6.0-8.0	2.0-2.5		0.15-0.22		
F317L	S31703/1.4438/ 00Cr19Ni13Mo3/CG3M	0.030	2.00	0.045	0.030	0.75	18.0-20.0	11.0-15.0	3.0-4.0				
F316Ti	S31635/1.4571/ 06Cr17Ni12Mo2Ti	0.080	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.0-3.0	Ti:5* C:0.7	0.40		
F316L	1.4404/00Cr17Ni14Mo2/ CF-3M	0.030	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.0-3.0				
F316	1.4401/0Cr17Ni12Mo2/ CF-8M	0.080	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.0-3.0				
310S	2520/1.4845/0Cr25Ni20	0.080	2.00	0.045	0.030	1.50	24.0-26.0	19.0-22.0					
2520Si2	310/1Cr25Ni20Si2/2520	0.200	1.50	0.040	0.030	1.5-2.5	24.0-27.0	18.0-21.0					
F304L	1.4306/00Cr18Ni10/CF3	0.030	2.00	0.045	0.030	1.50	18.0-20.0	8.0-13.0					
F304	1.4301/0Cr18Ni9/CF8	0.080	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0					
F6a	410/1Cr13/S41000/1.4006	0.150	1.00	0.040	0.030	1.00	11.5-13.5	0.60					
431	1Cr17Ni2/S43100/1.4057	0.200	1.00	0.040	0.030	1.00	15.0-17.0	1.25-2.50					

钢号	对应牌号	化学成分%												
		≤C	Mn	≤P	≤S	≤Si	≤Cr	Ni	Mo	Cu	N	Nb	其它	
Monel400	N04400/2.4360/ 2.4361/M35-1	0.300	2.00		0.024	0.50		≥63.0				28.0-34.0		Fe:≤2.50
MonelK500	N05500/ 2.4375	0.180	1.50		0.010	0.50		≥63.0				27.0-33.0		A:230-315 T:0.35-0.85Fe:≤2.00
Inconel600	N06600/2.4816/ 1Cr15Ni75Fe8/NS312/CY40	0.150	1.00		0.015	0.50	14.0-17.0	≥72.0				≤0.50		Fe:6.0-10.0
Inconel601	N06601/2.4851/ 1Cr23Ni60Fe13Al/NS313	0.100	1.00		0.015	0.50	21.0-25.0	58.0-63.0				≤1.00		A:1.0-1.7
Inconel625	N06625/2.4856/ 0Cr20Ni65Mo10Nb4/NS336	0.100	0.50	0.015	0.015	0.50	20.0-23.0	≥58.0	8.0-10.0					315-415Co:≤1.0 Al:≤0.40T:≤0.40Fe:≤5.0
Inconel718	N07718/2.4668/ GH4169	0.080	0.35	0.015	0.015	0.35	17.0-21.0	50.0-55.0	2.8-3.3	≤0.30	Co:≤1.0	4.75-5.50		A:0.20-0.80 T:0.65-1.15B:≤0.006
Inconel725	N07725	0.030	0.35	0.015	0.010	0.20	19.0-22.5	55.0-59.0	7.0-9.5					T:1.0-1.7 Al:≤0.35
InconelX-750	N07750/2.4669/GH4145	0.080	1.00		0.010	0.50	14.0-17.0	≥70			≤0.50	Co:≤1.0	0.70-1.20	Al:0.4-1.0 Ti:225-2.75Fe:5.0-9.0
Incoloy800	N08800/1.4876/ 0Cr20Ni32AlTi/NS111	0.100	1.50	0.030	0.015	1.00	19.0-23.0	30.0-35.0				≤0.75		A:0.15-0.60 T:0.15-0.60
Incoloy800H	N08810/1.4958/NS112	0.05-0.1	1.50	0.030	0.015	1.00	19.0-23.0	30.0-35.0				≤0.75		Al:0.15-0.60 T:0.15-0.60
Incoloy800HT	N08811/1.4959	0.06-0.1	1.50	0.030	0.015	1.00	19.0-23.0	30.0-35.0				≤0.75		Al:0.15-0.60 T:0.15-0.60 Al+T:0.85-1.2
Incoloy825	N08825/2.4858/ 0Cr21Ni42Mo3Cu2Ti/NS142	0.050	1.00		0.030	0.50	19.5-23.5	38.0-46.0	2.5-3.5	1.50-3.0				Al:≤0.20 T:0.60-1.20
Incoloy925	N09925	0.030	1.00	0.030	0.030	0.50	19.5-22.5	42.0-46.0	2.5-3.5	1.50-3.0		≤0.50		T:1.9-2.4 Al:0.1-0.5
Incoloy926	N08926/1.4529/Mo6CuN	0.020	2.00	0.030	0.010	0.50	19.0-21.0	24.0-26.0	6.0-7.0	0.50-1.5	0.15-0.25			
Nimonic80A	N07080/2.4952/2.4631/GH4180	0.100	1.00		0.015	1.00	18.0-21.0	基						Al:0.5-1.8 T:1.8-2.7 Fe:≤3.0
HastelloyB	N10001/NS321/ 0Ni65Mo28Fe5V/N12MV	0.050	1.00	0.040	0.030	1.00	≤1.00	基	26.0-30.0					V:0.20-0.40 Co:≤2.50 Fe:4.0-6.0
HastelloyB2	N10665/2.4617/ 00Ni70Mo28/NS322	0.020	1.00	0.040	0.030	0.10	≤1.00	基	26.0-30.0					Co:≤1.00 Fe:≤2.0
HastelloyB3	N10675/2.4600/NS323	0.010	3.00	0.030	0.010	0.10	1.00-3.00	≥65	27.0-32.0					Fe:1.0-3.0Co:≤3.0W:≤3.0Cu:≤0.20V:≤0.2 Al:≤0.50Ti:≤0.20Zr:≤0.10Ta:≤0.20
HastelloyB4	N10629/2.4600/NS3204	0.010	1.50	0.040	0.010	0.05	0.50-1.50	基	26.0-30.0	≤0.50				Fe:1.0-6.0 Co:≤2.5 Al:≤0.10-0.50
HastelloyCNS	333/0Cr15Ni60Mo16W5Fe5	0.080	1.00	0.040	0.030	1.00	14.5-16.5	基	15.0-17.0		W:3.0-4.5			V:≤0.35 Co:≤2.50Fe:4.0-7.0
HastelloyC-276	N10276/2.4819/NS334/CW12MW	0.010	1.00	0.040	0.030	0.08	14.5-16.5	基	15.0-17.0		W:3.0-4.5			V:≤0.35 Co:≤2.50 Fe:4.0-7.0
HastelloyC-4	N06455/2.4610/ 00Cr16Ni65Mo16Ti/NS335	0.015	1.00	0.040	0.030	0.08	14.0-18.0	基	14.0-17.0					T:≤0.70 Co:≤2.0 Fe:≤3.0
HastelloyC-22	N06022/2.4602/NS3308	0.015	0.50	0.020	0.020	0.08	20.0-22.0	基	12.5-14.5		W:2.5-3.5			V:≤0.35 Co:≤2.5 Fe:2.0-6.0
HastelloyC-59	N06059/2.4605/NS3311/Alloy59	0.010	0.50	0.015	0.010	0.01	22.0-24.0	基	15.0-16.5	≤0.50				A:0.10-0.40 Co:≤0.30 Fe:≤1.50
HastelloyC-2000	N06200/2.4675/NS3405	0.010	0.50	0.025	0.010	0.08	22.0-24.0	基	15.0-17.0	1.3-1.9				Al:≤0.50 Co:≤2.0 Fe:≤3.0
HastelloyG	N06007/2.4618/NS3402	0.050	1.0-2.0	0.040	0.030	1.00	21.0-23.5	基	5.5-7.5	1.5-2.5	W:≤1.0	1.75-2.50		Co:≤25 Fe:≤18.0-21.0
HastelloyG-3	N06985/2.4619/NS3403	0.015	1.00	0.040	0.030	1.00	21.0-23.5	基	6.0-8.0	1.5-2.5	W:≤1.5	≤0.50		Co:≤5.0 Fe:≤18.0-21.0
HastelloyG-30	N06030/2.4603/NS3404	0.030	1.50	0.040	0.020	0.80	28.0-31.5	基	4.0-6.0	1.0-2.4	W:1.5-4.0	0.30-1.50		Co:≤5.0 Fe:≤13.0-17.0
HastelloyG-50	N06950/NS3310	0.020	1.00	0.040	0.015	1.00	19.0-21.0	基	8.0-10.0	≤0.50	W:≤1.0	≤0.50		Co:≤2.5 Al:≤0.40 Fe:≤15.0-20.0
HastelloyX	N06002/2.4665/ GH3536/GH32	0.05-0.15	1.00	0.040	0.030	1.00	20.5-23.0	基	8.0-10.0		W:0.2-1.0			Co:≤0.5-2.5 Fe:≤17.0-20.0
Ni200	N02200/2.4060/2.4066	0.150	0.35		0.010	0.35		≥99				≤0.25		
Ni201	N02201/2.4061/2.4068	0.020	0.35		0.010	0.35		≥99						

阀门故障分析

Analysis on valve failure

对于用户来说,实际使用工况与阀门规定的适用范围一致,以及操作正确与认真维护保养时,直接关系到阀门故障的避免与使用寿命的延长。
For users, when the actual operating conditions are consistent with the applicable range specified for the valve, and when the operation is correct and proper maintenance is carried out, it directly affects the prevention of valve failures and the extension of its service life.

●常见事故详见下表The common accidents are detailed in the following table.

故障 Failure	分析产生原因 Cause analysis	消除故障方法 Method of settlement
填料处的外漏 Leaking outward at the packing	<ol style="list-style-type: none"> 1、填料超期使用、已老化。 The packing is in exceeded use and gets aged. 2、操作时用力过大。 Excessive force is used in operation. 3、活节螺栓没有拧紧。 The eyelet bolt is not tightened. 	<ol style="list-style-type: none"> 1、应及时更换老化、损坏的填料并逐圈安放接头呈30°-50° Replace the aged and injured packing in time, place the connectors turn by turn and let them 30°-50°. 2、应以正常力均匀操作、不许加套管或用其他办法。 Use normal even operation and do not use bushing or any other ways. 3、均匀拧紧压住填料用螺栓。 Evenly tighten the bolts used to tightly press the packing.
密封面泄漏 Leaking at the sealing surface	<ol style="list-style-type: none"> 1、阀门安装方向和介质流向不符。 The valve installation direction does not conform to the medium flowing direction. 2、关闭不到位。 Closing is not in place. 3、久闭的阀门在密封面上积垢。 The sealing surface of a long time closed valve gets scaled. 4、密封面上损伤严重。 The sealing surface gets seriously injured. 	<ol style="list-style-type: none"> 1、注意安装检查。 Pay attention to the installation checkup. 2、关严到位。 Make closing in place. 3、将阀门开一条缝,让告诉流体冲掉密封上脏物。 Let the valve in crack to have the dirty on the seal flushed out by the high speed fluid. 4、重新研磨,加厚调节垫片补偿。 Re-grind and thicken the adjustment gasket for compensation.
法兰连接处泄漏 Leaking at the flange connection	<ol style="list-style-type: none"> 1、螺栓拧紧力不均。 The bolts are unevenly tightened. 2、垫片老化损伤。 The gasket gets aged and injured. 3、垫片选用材质与工况介质要求不符。 The gasket material does not conform to the required working condition medium. 	<ol style="list-style-type: none"> 1、重新均匀拧紧螺栓。 Evenly tighten the bolts again. 2、及时更换。Replace it in time. 3、按工况要求正确选用垫片材料和形式,必须请与厂家联系请求帮助选材选型,订货时要详细说明要求。 Use correct gasket material and type in accordance with the working condition requirement and, when necessary, ask the manufacturer for help and note the detailed requirement at order.
手柄、手轮的损坏 Damage of handle and handwheel	<ol style="list-style-type: none"> 1、使用不正确。 Incorrect use. 2、紧固件松动。 The fastener gets loosened. 3、手柄、手轮与阀杆连接损伤。 Damaged connection between the handle, handwheel and stem. 	<ol style="list-style-type: none"> 1、禁止使用管子钳、长杠杆、撞击工具等。 Never use grip wrench, long lever, impacting tools. 2、随时修配。 Repair and fit it in time. 3、随时修复。 Repair it in time.
蜗轮、蜗杆传动卡咬 Seizure between worm and gear	<ol style="list-style-type: none"> 1、不清洁嵌入脏物,影响润滑。 Dirt gets inlaid to affect the lubrication. 2、操作不善。 Improper operation. 	<ol style="list-style-type: none"> 1、请保持清洁,定期加油。 Keep it clean and oil it in a fixed period of time. 2、若操作是发现卡咬,阻力很大时,不能继续操作,否则损坏加剧。 In case of seizure and a heavy resistance during operation, do not go on operation, or damage would get increased.
电动安装故障 Electric installation failure	<ol style="list-style-type: none"> 1、润滑不良Bad lubrication。 阀门内有异物卡住造成转矩过大损坏。 Foreign matters are available inside of the valve to make the torque exceeded and injured. 2、电动故障。Electric failure. 	<ol style="list-style-type: none"> 1、应加油,保持清洁,使油管良好,填料压紧应适度,应及时排除阀内异物。 Do oiling and keep clean to make the oil tube in good matters inside of the valve out in time. 2、电机工作时间不超过15分钟,电源应正常,应避免电机受潮。 Do not let the motor working for over 15min and getting wetted, the power supply shall be kept normal.

Service and support

服务与支持

公司建立了完善的售前、售中、售后服务体系。
Company has established a sound pre-sale, in sale, after-sales service system.

售前服务 Pre sales services

- 1、协助用户做好产品选型工作。
 - 2、提供用户所订产品的产品介绍、性能参数、安装尺寸以及相关注意事项。
 - 3、提供用户所需的其它技术资料。
1. Assist users in product selection.
2. Provide product introduction, performance parameters, installation dimensions and relevant precautions of the products ordered by users.
3. Provide other technical data required by users.

售中服务 Service in sale

- 1、按时、按质、按量提供所订产品。
 - 2、物流运输途中质量保险等服务由我公司负责免费提供。
1. Provide the ordered products on time, according to the quality and quantity.
2. Our company is responsible for providing quality insurance and other services during logistics and transportation free of charge.

售后服务 After-sale service

购置一台阀门只是您体验的一个开始,并不代表完结。我们的客户关系是长久的,从选型、安装到后台支持,再到提供顾问服务及技术推进可见一斑。我们对产品品质的坚持犹如对客户的服务承诺及支持般重要。除了优良的产品品质,用户服务也是我们胜人一筹的表现。

我们以用户为中心,以“用户满意”为标准,致力与用户结成可持续发展的伙伴关系。在全国各大中型城市建立销售服务机构,战略用户实现24小时内到现场,完善为用户提供个性化的“一对一”的服务。

我们的服务没有终.....

Purchasing a valve is just the beginning of your experience, not the end. Our customer relationship is long-lasting, which can be seen from the selection, installation, back-office support, to the provision of consulting services and technical advancement. Our insistence on product quality is as important as our service commitment and support to customers. In addition to excellent product quality, customer service is also our superior performance.

We take the user as the center and "customer satisfaction" as the standard, and strive to form a sustainable partnership with users. Establish sales and service agencies in major and medium-sized cities across the country, and strategic users can be on-site within 24 hours to provide users with personalized "one-to-one" services.

Our service has no end...

1 快速响应的服务 Quick response service	2 产品操作培训服务 Product Operation Training Service	3 在线的售后技术支持 Online after-sale technical support
4 便捷的零部件供应和库存 Convenient parts supply and inventory	5 产品质保期 Product warranty period	6 随机资料和产品档案 Random information and product files
7 现场安装调试指导服务 On-site installation and commissioning guidance service	8 增值服务/维护保养计划 Value-added service/maintenance plan	9 产品应用服务号 Product Application Service Number

🕒 24小时问题解决方案

🏠 24小时上门服务

🚀 2小时快速反应



Application field

应用领域

经过多年的发展，李朗产品以其卓越的产品质量和完善的服务体系，获得了广大用户的一致好评，在行业内树立了良好的企业形象，品牌知名度连年攀升。

产品广泛适用于石油，化工，炼油，造纸，炼钢，热电厂，船舶制造，污水处理等领域，李朗的产品都展示着它永恒的魅力，无论是产品外形设计，还是内在功能，都体现着科技与人为本的理念。



After years of development, BOLON products have received unanimous praise from users for their excellent product quality and perfect service system, establishing a good corporate image in the industry, and continuously increasing brand awareness.

The products are widely used in fields such as petroleum, chemical, refining, papermaking, steelmaking, thermal power plants, shipbuilding, sewage treatment, etc. BOLON products all showcase its eternal charm, reflecting the concept of technology and people-oriented in both product appearance design and internal functions.