

**Utmost**<sup>®</sup>  
品质与艺术完美结合

不仅仅是性能卓越的产品.....  
艾坦姆还通过技术方案和综合的售后服务体系,  
增强产品价值,为您的工厂提供全面支持!

More than just excellent products!  
Utmost also supply technical solution and integrated after service  
system to increase products value and fully support your factory!

**艾坦姆流体控制技术(北京)有限公司**  
Utmost Flow Control Tech(Beijing)Co., Ltd.

地址:北京市顺义区空港工业区A区天柱路28号空港科技大厦705室  
Add: RM705, Konggang keji Mansion, No.28 of Tianzhulu, A district of Airport Industrial Park, Shunyi, BJ  
电话/Tel:010-80490446/80490441  
网站/Web: www.utmost-valve.com

**艾坦姆流体控制技术(山东)有限公司**  
Utmost Flow Control Tech(Shangdong)Co., Ltd.

地址:山东省济宁市邹城市北宿镇广成路1号  
Add: No. 1, Guangcheng Road, Beisu Town, Zoucheng City, Jining City, Shandong Province  
电话/Tel: 0537-6535399

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**Utmost**<sup>®</sup>  
品质与艺术完美结合

通用  
阀门  
系列

**艾坦姆流体控制技术有限公司**  
Utmost Flow Control Tech., Ltd.



艾  
坦  
姆  
流  
体  
控  
制

**艾坦姆**  
通用阀门系列  
General Valves



# Company Philosophy

企业理念



## 双手创造价值

Create Value by Our Hands



## Unusual卓越

艾坦姆具有从加工、装配到检测的完整的工艺路线。产品采用了耐高温/低温、耐腐蚀、抗高压设计。高精度的加工水平和严格到近乎苛刻的产品质量控制,使得艾坦姆的产品具备卓越的性能,可以适应多地区、多工况的严酷的工作环境。

Utmost owned a complete process line from machining, assembling and testing process. Every Utmost designed product with good performance of high or low temperature, corrosion and high pressure resistance. Guaranteed by High Precision machining level and strict quality control system, high quality Utmost control valve can be adopted under any tough operating conditions.

## Thankfulness感恩

面对客户、供应商、全体员工的信任与支持,关注与托付,艾坦姆人兢兢业业、心怀感恩,无论外部竞争如何激烈,艾坦姆人永远不以牺牲产品质量为代价谋取短暂利益,而是不断追求新产品的研发和生产工艺的提升,不断提升品牌内涵和服务水准。

With the customer, supplier, and all staff's attention and entrust, each Utmost member is hard working and full of thankfulness, we will never seek temporary interest by sacrifice product quality. But in continued research and development of new products and constant pursuit of better production technique, never cease to enrich the connotation of the Utmost brand and will forever seek for improving our services!

## Masterly精湛

研发、创新为企业注入动力,艾坦姆专业的研发团队将致力于广大行业客户对特殊、复杂、苛刻工况的阀门研发工作,将所有的技术理念付诸于生产各个环节中。

R&D and innovation have injected dynamic into the whole company. whose R&D expertise panel is devoting their efforts to the study on control valves to fit into special, complex, or harsh working conditions, to meet the demands by varied clients throughout the entire industry, and to implement our philosophy on technology into all stages during manufacturing.

## Obligation责任

艾坦姆人孜孜不息、力求精进,每一份订单都是对您的承诺,用双手实现诺言,用真诚赢取信任,每一台交付给您的阀门都经过严格检验,其中饱含着艾坦姆人高度的责任感。

What the Utmost staff have been longing for and trying on is to get even better, towards perfection. Every order we are undertaken is a promise to you. With both hands to achieve the promise, with sincerity to win trust. Each valve delivered to you has been strictly inspected, which is full of the high sense of responsibility of the Utmost staff.

## Synergy协作

为员工创造安全健康的工作条件,实施健康和安全管理,确保舒适愉悦的工作环境,为供应商创建公平透明的沟通平台,真诚和谐的供应商协作关系将供求风险降到最低。

Utmost values efforts by each of our staff There are safe and satisfying working conditions created. the health and safety management system implemented, comfortable and pleasant working environment ensured. At the same time to create a fair and transparent communication platform for suppliers. sincere and harmonious supplier cooperation to minimize the risk of supply and idemand.



## Together共同发展

艾坦姆珍视每一名员工的努力付出,重视新员工的培养,充分尊重与信任,完善的培训体系,搭建良好、公平、实现自我价值的平台。我们鼓励员工在这里找到归属感、成就感及驾驭工作的权力感。每一位员工都是艾坦姆的主人,与企业全体员工共同发展是我们一致的追求。

Highly valued as they can be, newcomers will be fully respected and trusted. We provide not only a comprehensive training system, but also a satisfying and fair platform for individuals to give full play of their own value. Each employee is encouraged to seek for their own sense of belonging, sense of achievement, and sense of keeping career progression in control. So everyone of the Utmost staff is seen the real owner of this brand here, which is built on the concerted belief that Utmost and her entire team should develop altogether.



美好未来由你开启  
A brilliant future  
awaiting you to explore



艾坦姆公司愿为所有员工搭建一个实现自我发展的平台。员工可以通过优秀的业绩,正确的行为和出色的工作为公司的不断发展做出贡献,同时获得自身的成长,多样性的能力及丰富的经验将会受到高度重视。员工可以在艾坦姆获得足够多的机会提升自我,在这里创造美好未来,实现个人价值。

Utmost is willing to build up a platform for all employees to realize their self progression. So by excellent performance, honest behavior, and outstanding outcome, employees may contribute to the company'S constant promotion in line with their own growing up. In particular, versatile talents and rich experiences are what we appreciate the most from every individual. We guarantee that you can have enough opportunities to improve themselves, create a bright future and realize their personal value here.

# Service Guidance

## 服务指南



### 技术咨询

#### Technology Consulting



艾坦姆公司咨询服务将提供改进工艺流程和为复杂工况进行阀门选型，我们的顾问拥有对广泛行业，复杂工程和维护操作的深入了解及现场实践。

Technology consulting provided by Utmost includes improving processing and valves sizing in complex working conditions, so that more reliable technical parameters can be achieved. Our advisers are equipped with good knowledge and experiences from field practice of all kinds of industries.

### 安装和调试

#### Installation & Commissioning



专业的服务团队——给用户安全的保障！

更近，更快，更专业！

服务中心为您提供全面的技术服务！

Professionalized service team-guarantee security to all clients !

Closer, faster; and even more professional !

Comprehensive technical services easily accessible in our service center !

为了实现长期无故障运行，安装和调试是重要环节，建议遵循艾坦姆安装和调试程序。艾坦姆服务工程师将确保您的操作基于一个安全和正确的工作流程之上，在这背后是艾坦姆团队积累多年的专业安装、调试服务的理念。以服务工程师的专业技能和艾坦姆设计团队的专业知识为后盾，使调试过程变得快速、平稳，也奠定了产品可靠性和高效率的基础。

As installation & commissioning is the key step to assure long-term failure-free operations, we advise to adopt the Utmost solutions. Utmost service engineers will make it for sure that your operations are based on a secured and proper process of working, and this is the very concept Utmost staff has been coming along with for years of field installation and commissioning. Skilled service engineers and Utmost design expertise are able to make the whole process efficient and smooth, which is also the foundation for high reliability and efficiency of Utmost products application.



### 日常维护和保运

#### Daily Maintenance and smooth operation warranty

艾坦姆服务技术团队中拥有一支技术精湛的工程师保运团队。他们凭借高超的诊断、维修和维护经验，确保您的维护投资获得最大的效益。我们深知，提供国际水准的服务不仅仅需要快速响应，还需要提供更好的独一无二的解决方案。

Of the Utmost service team, there is a group of skilled and talented engineers to guarantee smooth valve operations, whose extraordinary experiences on diagnosis, repairing, and maintenance will guarantee the maximum benefits generated out of your investment into maintenance. And we are fully aware that apart from prompt reaction, world-class service also means to figure out better and unique solutions.

如需了解艾坦姆如何为您提供日常维护和保运的更多信息，请联系我们。我们将免费提供需求评估和服务建设。

For more information on how the Utmost regular maintenance and operation warranty system is able to support your maintenance, please contact us. There will be needs assessment and recommendations available free of charge.



### 长期提供备件及消耗易损件:

#### Long-Term and Stable Supply of Spare Parts and Consumable & Wearing Parts

艾坦姆公司为每一台阀门在生产前都录入出厂编号，作为产品索引，无论何时，只需提供艾坦姆的出厂编号，我们就为您能快速、准确的提供所需要的任何备件，同时，艾坦姆快速反应中心长期备有大量的消耗易损件，可以保障24小时之内的备件发货速度。

Utmost records a delivery code for each valve before it is manufactured, which is input into the product index database. So whenever there is the delivery code available, we will be able to pick up due parts required accurately and efficiently. Utmost quick response center, meanwhile, has a large quantity of consumables and wearing parts in stock, for a part delivery within 24 hours upon request.

### 技术培训

#### Technical Training



艾坦姆乐于向现场工程师、操作人员、维修人员提供综合技术培训，并提供在产品与实际应用方面最新的专业技术及标准。这些培训可以在工厂培训中心或您工厂所在地进行，您也可以通过登录艾坦姆网站查询获得，请随时联系我们获取培训建议。

Utmost is always ready to provide not only all-round technical trainings to field engineers, operating staff, and maintenance staff, but also professional skills and standards in terms of products and practical application. Such trainings can be conducted either in workplace training center, in local clients' factories, or download from Utmost webpage. Please feel free to contact with us to supply training advice.

# Honor Certificate

## 荣誉证书



### 资质证书

#### Qualification Certificate

中华人民共和国  
特种设备生产许可证  
Production License of Special Equipment  
People's Republic of China

编号: TSZ1047Y-2025

单位名称: 艾坦姆流体控制技术(山东)有限公司  
住所: 山东省济宁市城市北首镇广成路1号  
制造地址: 山东省济宁市城市北首镇广成路1号

经审查, 获准从事以下特种设备生产活动:

许可项目	许可子项目	许可参数	备注
压力管道元件制造	压力管道阀门(金属网门)(A1、A2、B)	—	具体产品范围见型式试验证书

发证机关: 国家市场监督管理总局  
有效期至: 2025年05月31日

中国船舶社  
CHINA CLASSIFICATION SOCIETY  
型式认可证书  
CERTIFICATE OF TYPE APPROVAL

证书编号: Q812PFD0007\_03

制造商/Manufacturer: 艾坦姆流体控制技术(山东)有限公司  
Unimot Flow Control Tech.(Shandong) Co.,Ltd

地址/Address: No.1 Guangcheng Road, Daimo Town, Gongcheng City, Shandong Province, P.R.China

产品名称/Product: 阀 Valve

认证标准/Approval Standard: 1. 中国船级社《钢质船舶建造规范》第2分册第2章第3部分《船用阀门建造规范》(2022)及其修改通报; 2. 中国船级社《钢质船舶建造规范》第2分册第2章第3部分《船用阀门建造规范》(2022)及其修改通报

用于/Intended for: 船用阀门

产品描述/Product Description	证书页码
产品图: Product Image	证书第 1 页
产品图: Product Image	证书第 2 页
产品图: Product Image	证书第 3 页
产品图: Product Image	证书第 4 页
产品图: Product Image	证书第 5 页

证书有效期至: 2025年12月31日

### 荣誉证书

#### Certificates Of Honor

企业荣誉等级证书  
AAA 级信用企业

国家火炬计划  
产业化示范项目证书

AAA 级信用企业

荣誉证书

山东大学  
济宁能源发展集团有限公司  
山大-济宁能源高端装备制造研究中心

典型企业

科学技术成果评价  
汽轮机旁路减温减压装置(系统)  
国际先进

### 专利证书

#### Patent Certificate

Certificate

Certificate

Certificate

Certificate

Certificate

Certificate

Certificate

质量管理体系认证证书  
环境管理体系认证证书  
职业健康安全管理体系认证证书  
中国船级社认证证书

目前艾坦姆公司已获得授权专利48项, 其中发明专利1项, 实用新型专利32项, 外观专利13项。软件著作权2项。另有多项发明专利正在实质性审核中。

At present, Utmost has obtained 48 authorized patents, including invention patent, 32 Practical new type patents, 13 appearance patents and 2 soft ware copyrights. Several other invention patents are under supervision.





## Enterprise Profile

### 企业简介

艾坦姆(Utmost®)是高质量工作、高品质产品、勇于探索、追求极致的代名词。是一家集研发、设计、制造、销售、服务及技术咨询为一体的国家高新技术企业，是国内工业控制阀、手动阀及自动控制设备领域的专业制造商。

从作为世界知名控制阀品牌合作伙伴到发展成为拥有自主民族品牌“Utmost®”的高端阀门专业制造厂家，公司目前拥有员工300余人，国内高精尖技术研发团队50人，中高级工程师15人。一路走来，艾坦姆始终坚信中国制造的力量，将技术创新和对自己几乎苛刻的要求灌输于每个生产环节之中。每一台艾坦姆阀门产品从选型、设计到生产加工的每一个环节都倾注了艾坦姆人的精益求精、精进制作的态度和信念。

公司产品分为特种阀、控制阀、手动阀等三大板块，并配备国际一流的铸造生产加工中心。其中手动阀产品主要有：闸阀、截止阀、球阀、蝶阀、止回阀五大系列2000余个规格与型号。特阀及调节阀产品主要有：单座调节阀、套筒阀、三通阀、低温调节阀、波纹管密封调节阀、自力式调节阀、粉煤调节阀、金属硬密封球阀、偏心旋转调节阀、超低温球阀、煤化工专用耐磨球阀等。

艾坦姆通过高技术含量的产品，完善的质量体系，以“精益凝质量、以质量铸诚信”的经营理念，不断创新，逐步实现国产精品替代原装进口的发展目标，秉承高起点阀门技术和先进的设计理念，拥有国内顶尖的研发团队，根据苛刻工况量身定制出阀门设计方案，利用丰富的实践经验与试验数据积累，为客户提供最有效的流体控制解决方案，广泛应用在石油石化、煤化工、精细化工、造纸、电力、冶金、制药等行业，产品销往全国各地，并出口意大利、俄罗斯等多个国家与地区。

2019年，艾坦姆为实现快速高效发展，与济宁能源盛源控股合资扩大生产规模。目前公司已实现规模化生产，将专注研发智能化、自动化、精细化等国际更高端的一流产品，深化产业链协同创新，发挥龙头引领带动作用，与集团制造板块加深互动，与盛源控股联合打造精密制造产业园，聚力发展成为高端流体控制阀领域的领军品牌。

As a synonym of high-quality work and premium products, UTMOST (Utmost®) is brave in exploration and pursuit of perfection. It is a national new high-tech enterprise integrating R&D, design, manufacturing, sales, service and technical consultation, it is a professional manufacturer of industrial control valves, manual valves, and automatic control equipment in China.

UTMOST started as a partner of world-famous control valve brands and developed into a Professional manufacturer of high-end valves with its self-dependent national brand "Utmost®". The company currently boasts over 300 employees in total, an advanced technology R&D team of 50 members, and 15 intermediate and senior engineers. Through all these years, UTMOST firmly believes the strength of "Made in China". It applies innovative technologies and strict standards to its every production link. Every valve product manufactured by UTMOST carries its employees' attitude of constant improving and faith in pursuing perfection.

Its products comprise three major types: special valves, control valves, and manual valves, manufactured in its world-class casting and processing center. Its manual valves include five major series: gate valve, stop valve, ball valve, butterfly valve, and check valve, with over 2000 specifications and models. Special valves and regulating valves mainly include: single-seat regulating valve, sleeve valve, tee valve, low temperature regulating valve, bellows seal regulating valve, self-actuated regulator, fine coal regulating valve, metal hard seal ball valve, eccentric rotary valve, ultra-low temperature ball valve, wearproof ball valves for coal chemical industry, etc.

UTMOST upholds the operation principle of "lean manufacturing creates high quality and high quality brings reputation" and continuously innovates to replace imported valves with original packaging with its own high-tech products through mature quality system. Adhering to high starting point valve technology and advanced design concept, it boasts top research team, which can draw up customized valve design plans according to harsh working conditions. Based on its rich experience and accumulation of test data, the team can provide customers with the most effective flow control solutions. Its products are widely used in such fields as petroleum and petrochemical industry, coal chemical industry, industry of fine chemicals, paper industry, electricity industry, metallurgical industry, and pharmacy industry. The products are sold around China and exported to Italy, Russia and many other countries and regions.

In order to achieve rapid and effective development, UTMOST enlarged its production scale jointly with Jining Sheng Yuan Holdings Limited in 2019. Currently, UTMOST has realized scale production and will focus on building an intelligent, automatic, elaborate production line for higher-end products. It will deepen cooperation and innovation of industrial chains, be a true to name locomotive and interact more frequently with the manufacturing department of the Group. It will collaborate with Sheng Yuan Holdings Limited to build a precision manufacturing industrial park and strives to be a leading brand of high-end flow control valves.



## Excellent Equipment 精良设备



为保证每台阀门零配件的尺寸稳定性及高精度配合，艾坦姆分阶段实施打造数字化工厂，实现数据在工厂内自由充分流动。恒温车间引进日本新泻自动化柔性生产线，韩国斗山高精度数控车床、桁架自动化生产线、台湾油机立式数控车床，武汉重型机床。洁净车间配有大型的全自动超声波清洗机，实现特殊阀门从粗洗、脱脂、精洗、漂洗、烘干的全流程脱脂。

In order to ensure the dimensional stability and high-precision coordination of each valve component, Utmost implemented a digital factory in stages to realize the free and full flow of data in the factory. The constant temperature workshop introduces Japan's Niigata automated flexible production line, South Korea's Doosan high-precision CNC lathe, truss automated production line, Taiwan oil machine vertical CNC lathe, and Wuhan heavy-duty machine tool. The clean workshop is equipped with a large-scale automatic ultrasonic cleaning machine to realize the whole process of degreasing from rough washing, degreasing, fine washing, rinsing, and drying with special valves.





## Casting Strength 铸造实力

砂铸车间方面，造型工段有造型线一条并配备全自动模具体库；熔炼工段有3台中频炉并配备自动砂回收装置；后处理工段有独立的切、磨、焊工作间，精、粗抛丸机、500t.1000t四柱液压机淬火炉、回火炉。

精铸车间方面，射蜡工段配有不同型号设蜡机12台和一条自动蜡横输送线；制壳工段有5条干燥线并配备2台八臂机械手、3台抓取机械手；熔炼工段配备9台中频炉，6台焙烧炉；后处理工段有独立的切、磨、焊工作间，震壳线，精、粗抛丸机，液压机，回火炉，酸洗线。

In sand casting workshops, a moulding line, equipped with full-automatic three-dimensional mould warehouse, is set up in the moulding section; three intermediate frequency furnaces, equipped with automatic sand reclaimer, are set up in the smelting section; the reprocessing section has independent cutting, grinding, and welding workshops, equipped with fine and rough shot blasting machines, 500t and 1000t four-column hydraulic press, glowing furnace, and tempering furnace.

In investment casting workshops, wax injection is equipped with 12 wax injection machines and one automatic wax transverse conveyor line; the shell-making section has 5 drying lines and 2 sets of 8-arm manipulators, and 3 sets of grasping manipulators; the smelting section has 9 intermediate frequency furnaces and 6 calcinators; the reprocessing section has independent cutting, grinding, and welding workshops, shell-shocking lines, fine and rough shot blasting machines, hydraulic press, tempering furnace, pickling line.

以匠心铸就民族品牌  
Achieved the national brand  
with ingenuity



## Detection Strength

### 检测实力

研发中心包括流量流阻试验区、低温深冷试验检测区、综合研发试验区和质量检验区。可以完成对公称尺寸DN15~DN800的阀门以及流量计、过滤器等相关流体产品进行测试的流量特性、调节性能测试，同时公司配备三坐标等实验检测仪器。

The research center comprises flow and flow resistance test zone, cryogenic test zone, comprehensive R&D test zone, and quality test zone. The research center can test flow and regulating features of relevant fluid products such as filters, flowmeter, and valves with a nominal size of DN15~DN800. Meanwhile, there are also calibrating devices such as three coordinate measuring machine.



# Storage Center

## 仓储中心

公司采用科学仓储管理，对所有零部件、半成品，均实行分区归类，为生产加工提供便利、提高工作效率，及保障产品品质。

UTMOST adopts scientific storage management and sets up separate zones for all parts and semi-finished products. Its production is very convenient and effective and can output quality products.



# Application

## 应用领域

Utmost®  
品质与艺术完美结合

每一台艾坦姆阀门从选型、设计到生产加工的各个步骤，都倾注了艾坦姆人精益求精、精进制作的态度和信念。不仅仅是性能卓越的产品，公司还通过完善技术方案和综合售后服务体系，增强产品价值。公司产品广泛应用在各种领域，特别是在煤化工、精细化工、炼化、造纸、硅化工、电力、石油化工、油气输送、冶金、制药、食品饮料等行业。

Each utmost valve product is filled with utmost people's attitude and belief in excellence, refinement and keeping improvement from sizing, design to production processing of all steps. Not only supply the product of excellent performance, the company also through the improvement of technical solutions and comprehensive after-sales service system to enhance the value of the product, especially in coal chemical, fine chemical, refining, paper making, silicon chemical, power plants, petrochemical, oil and gas transmission, metallurgy, pharmaceutical, food and beverage industries.



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## 附录(材料化学成分及力学性能)

Appendix (Material Chemistry Ingredient And Mechanical Properties)

**Utmost®**  
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ASTM 规范	化学成份 %											力学性能					
	C ≤	Mn ≤	P ≤	S ≤	Si ≤	Cr ≤	Mo ≤	Ni ≤	Cu ≤	V ≤	Nb ≤	抗拉强度 MPa, ≥	屈服强度 MPa, ≥	伸长率 %, ≥	收缩率 Reduce %, ≥	布氏硬度 Brinell HB, ≤	冲击功 J, ≥
A105	0.35	0.60-1.05	0.035	0.040	0.10-0.35	0.30	0.12	0.4	0.40	0.08	0.02	485	250	30	30	187	-
A182 F11	0.05-0.15	0.30-0.60	0.030	0.030	0.50-1.00	1.00-1.50	0.44-0.65	-	-	-	-	415	205	20	45	121-174	-
A182 F22	0.05-0.15	0.30-0.60	0.040	0.040	0.50	2.00-2.50	0.87-1.13	-	-	-	-	415	205	20	35	170	-
A182 F304	0.08	2.00	0.045	0.030	1.00	18.0-20.0	-	8.0-11.0	-	-	-	515	205	30	50	-	-
A182 F304L	0.030	2.00	0.045	0.030	1.00	18.0-20.0	-	8.0-13.0	-	-	-	485	170	30	50	-	-
A182 F316	0.08	2.00	0.045	0.030	1.00	16.0-18.0	2.00-3.00	10.0-14.0	-	-	-	515	205	30	50	-	-
A182 F316L	0.030	2.00	0.045	0.030	1.00	16.0-18.0	2.00-3.00	10.0-15.0	-	-	-	485	170	30	50	-	-
A182 F51	0.030	2.00	0.030	0.020	1.00	21.0-23.0	2.5-3.5	4.5-6.5	-	-	-	620	450	25	45	-	-
A182 F6a	0.15	1.00	0.040	0.030	1.00	11.5-13.5	-	0.50	-	-	-	585	380	18	35	167-229	-
A193 B7	0.37-0.49	0.65-1.10	0.035	0.040	0.35	0.15-0.35	0.75-1.20	0.15-0.25	-	-	-	860	720	16	50	321	-
A193 B7M	0.37-0.49	0.65-1.10	0.035	0.040	0.35	0.15-0.35	0.75-1.20	0.15-0.25	-	-	-	690	550	18	50	235	-
A193 B8	0.08	2.00	0.045	0.030	1.00	18.0-20.0	-	8.0-11.0	-	-	-	515	205	30	50	223	-
A193 B8M	0.08	2.00	0.045	0.030	1.00	16.0-18.0	2.00-3.00	10.0-14.0	-	-	-	515	205	30	50	223	-
A193 B16	0.36-0.47	0.45-0.70	0.035	0.040	0.15-0.35	0.80-1.15	0.50-0.65	-	-	0.25-0.35	-	860	720	18	50	321	-
A194 2H	≥0.40	1.00	0.040	0.050	0.04	-	-	-	-	-	-	-	-	-	-	248-352	-
A194 2HM	≥0.40	1.00	0.040	0.050	0.04	-	-	-	-	-	-	-	-	-	-	159-237	-
A194 8	0.08	2.00	0.045	0.030	1.00	18.0-20.0	-	8.0-11.0	-	-	-	-	-	-	-	126-300	-
A194 8M	0.08	2.00	0.045	0.030	1.00	16.0-18.0	2.00-3.00	10.0-14.0	-	-	-	-	-	-	-	126-300	-
A216 WCB	0.30	1.00	0.04	0.045	0.60	0.50	0.20	0.50	0.03	0.03	-	485-655	250	22	35	-	-
A216 WCC	0.25	1.20	0.04	0.045	0.60	0.50	0.2	0.50	0.03	0.03	-	485-655	275	22	35	-	-
A217 C5	0.20	0.40-0.70	0.04	0.045	0.75	4.00-6.50	0.45-0.65	0.50	0.50	-	-	620-795	415	18	35	-	-
A217 CA15	0.15	1.00	0.040	0.040	1.50	11.5-14.0	0.50	1.00	-	-	-	620-795	450	18	30	-	-
A217 WC6	0.05-0.20	0.50-0.80	0.04	0.045	0.60	1.00-1.50	0.45-0.65	0.50	0.50	-	-	485-655	275	20	35	-	-
A217 WC9	0.05-0.18	0.40-0.70	0.04	0.045	0.60	2.00-2.75	0.90-1.20	-	0.50	-	-	485-655	275	20	35	-	-
A276 410	0.08-0.15	1.00	0.040	0.030	1.00	11.5-13.5	-	-	-	-	-	480	275	20	45	-	-
A276 420	≥0.15	1.00	0.040	0.030	1.00	12.0-14.0	-	-	-	-	-	-	-	-	-	241	-
A320 L7	0.38-0.048	0.75-1.00	0.035	0.040	0.15-0.35	0.80-1.10	0.15-0.25	-	-	-	-	860	725	16	50	-	-
A320 L7M	0.38-0.048	0.75-1.00	0.035	0.040	0.15-0.35	0.80-1.10	0.15-0.25	-	-	-	-	690	550	18	50	235	-
A336 F22	0.05-0.15	0.30-0.60	0.025	0.025	0.50	2.00-2.50	0.90-1.10	-	-	-	-	515-690	310	19	40	-	-
A350 LF1	0.30	0.60-1.35	0.035	0.040	0.15-0.30	0.30	0.12	0.40	0.40	0.08	0.02	415-585	205	28	38	-	-
A350 LF2	0.30	0.60-1.35	0.035	0.040	0.15-0.30	0.30	0.12	0.40	0.40	0.08	0.02	485-655	250	30	30	-	-
A351 CF3	0.03	1.50	0.040	0.040	2.00	17.0-21.0	0.50	8.0-12.0	-	-	-	485	205	35.0	-	-	-
A351 CF3M	0.03	1.50	0.040	0.040	1.50	17.0-21.0	2.00-3.00	9.0-13.0	-	-	-	485	205	30.0	-	-	-
A351 CF8	0.08	1.50	0.040	0.040	2.00	18.0-21.0	0.50	8.0-11.0	-	-	-	485	205	35.0	-	-	-
A351 CF8M	0.08	1.50	0.040	0.040	1.50	18.0-21.0	2.00-3.00	9.0-12.0	3.0-4.0	-	-	485	205	30.0	-	-	-
A351 CF8C	0.08	1.50	0.040	0.040	2.00	18.0-21.0	0.50	9.0-12.0	-	-	-	485	205	30.0	-	-	-
A351CN7M	0.07	1.50	0.040	0.040	1.50	19.0-22.0	2.00-3.00	27.5-30.5	-	-	-	425	170	35	-	-	-
A352 LC1	0.25	0.50-0.80	0.04	0.045	0.60	-	0.45-0.65	-	-	-	-	450-620	240	24	35	-	-
A352 LC2	0.25	0.50-0.80	0.04	0.045	0.60	-	-	2.00-3.00	-	-	-	485-655	275	24	35	-	-
A352 LC3	0.15	0.50-0.80	0.04	0.045	0.60	-	-	3.00-4.00	-	-	-	485-655	275	24	35	-	-
A352 LCB	0.30	1.00	0.04	0.045	0.60	0.50	0.20	0.50	0.03	0.03	-	450-620	240	24	35	139-202	-
A352 LCC	0.25	1.20	0.04	0.045	0.60	0.50	0.20	0.50	-	0.03	-	485-655	275	22	35	-	-
A439 D2	3.00	0.70-1.25	0.08	-	1.50-3.00	1.75-2.75	-	18.00-22.00	-	-	-	400	207	8.0	-	-	-

## 阀门型号编制方法

Valve Type Preparation Method

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### ◆ 阀门产品型号由下面七个单元组成 Valve Type Of Valve By Make Up Of Seven Cells

#### ◆ 阀门类型代号 Valve Type Symbol

Z	J	Q	H	D	X
闸阀 Gate valve	截止阀 Globe valve	球阀 Ball valve	止回阀 Check valve	蝶阀 Butterfly valve	旋塞阀 Plug valve

#### ◆ 传动方式代号 Actuator Symbol

3	4	5	6	7	8	9
蜗轮 Worm gear	圆柱齿轮 Cylindrical gear	圆锥齿轮 Conical gear	气动 Pneumatic	液动 Hydraulic	气液联动 Gas-liquid interaction	电动 Electric

#### ◆ 连接形式代号 Type Of Connection Symbol

1	2	4	6	7	8	9
内螺纹 Inside thread	外螺纹 Outside thread	法兰 Flange	焊接 Weld	对夹 Wafer	卡箍 Collarclamp	卡套 Cutting sleeve

#### ◆ 结构形式代号 Type Of Construction Symbol

闸阀 Gate valve	0		1		2		3		4			
	楔式弹性闸板 Wedge flexible disc		楔式单闸板 Wedge single gate disc		楔式双闸板 Wedge double gate disc		平行式单闸板 Parallel single gate disc		平行式双闸板 Parallel double gate disc			
截止阀 Globe valve	1				4				5			
	直通式 Through way type				角式 Angle type				直流式 Straight-flow			
球阀 Ball valve	1	4	5	6	7	8	9	0				
	浮动流通式 Float through way type	三通L浮 Tee L float	三通T浮 Tee T float	四通 Four-way	固定直通式 Fixed through way type	三通T固 Tee T trunnion	三通L固 Tee L trunnion	半球 Semi ball				
止回阀 Check valve	1		2		4		5		6			
	升降直通式 Lift through way type		升降立式 Lift vertical type		旋启单瓣式 Swing single disc type		旋启多瓣式 Multi disc swing		旋启双瓣式 Swing double disc type			
蝶阀 Butterfly valve	1		2		3		4					
	中线式 Centerline line-type		双偏心 Double-eccentric		三偏心 Triple-eccentric		连杆偏心 Link-eccentric					
旋塞阀 Plug valve	3	4	5	8 油密封 Lubricate seal								
	直通式 Through way type	T形三通式 3-Way	四通式 4-Way	T形三通式 3-Way								

#### ◆ 密封面材料代号 Sealing Face Material Symbol

H	Y	T	B	F	N	X	C	D
合金钢 Alloyed steel	硬物质合金 Horniness	铜合金 Copper alloy	巴氏合金 Babbit alloy	氟塑料 PTFE	尼龙 Nylon	橡胶 Rubber	搪瓷 Enamel	渗氮钢 Nitriding steel

#### ◆ 公称压力代号 Nominal Pressure Class Symbol

磅级直接用磅级单位 Pound grade type direct using the pound grade unit.

#### ◆ 阀体材料代号 Body Material Symbol

C	C1	C6	C9	I	P	R	V
WCB	WC1	WC6	WC9	Cr5Mo 20CrMo 30CrMo	0Cr18Ni9(304) 1Cr18Ni12(305) CF8 CF3	0Cr17Ni12Mo2 00Cr17Ni12Mo2	12Cr1MoV 150CrMoV 20Cr1Mo1V1

#### ◆ 型号举例 Model Example:

Z40H-150(Lb)C 表示法兰连接闸阀, 弹性闸板, 压力级Class150, 阀体和阀盖材料A216 WCB, 阀杆A182 F6a, 闸板和阀座密封面材料13Cr, Z940W-150(Lb)P 表示电动, 密封环(RTJ)法兰连接闸阀, 弹性闸板, 压力级Class, 阀体和阀盖材料A351 CF8, 阀杆A182, F304, 密封面本体加工。

Z40H-150(Lb)C that means the flange connects with valve, elastic valve board the pressure class is Class 150, material of valve body and valve cover is A182 F6a, sealing face material of valve base and valve base and valve board is 13Cr.

Z940W-150(Lb)P means it is electromotion, flange of sealing ring (RTJ) connects valve, elastic valve board, pressure class, valve body and bonnet material A351 CF8, valve stem is A182, F304, sealing face is processing.

# Gate Valve

## 闸阀系列



闸阀是指关闭件（闸板）沿通道轴线的垂直方向移动的阀门，在管道上主要作为切断介质作用，即全开或全闭使用。一般闸阀不可作为节流用。它可以用于高温高压，并可以用于各种不同的介质。闸阀一般不用于输送泥浆、粘稠性流体的管道中。

Gate valve, with its sealing part (disc) moves along the channel axis vertically is mainly used in the pipelines to cut off medium, which is fully opened or closed, not for throttling. It can be used in high temperature and high pressure working conditions of different medium. It is not used in pipelines for medium of mud and viscous fluid.

## 闸阀概述

### Gate Valve Overview

#### 产品概述 Product description

铸钢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，水蒸气管路上接通或截断管路中的介质。（不可做节流阀使用）

Featured by low fluid resistance, little impact erosion on sealing surface, no change of medium flow direction, no disturbed flow, small pressure drop and etc, gate valve is a commonly-used cutout valve, applicable for a wide range of pressure and temperature, and widely used to put through or cut off the medium in oil or steam pipeline in the industries of petroleum, chemicals, thermal power plants and etc, (It cannot be used as throttle valve.)

#### 产品特点 Features

1、法兰连接铸钢闸阀适用于公称压力PN1.6~42.0MPa(Class150~2500)，工作温度≤600℃的石油、化工、火力电站等各种工况的管路上，切断或接通管路介质。其主要结构特点有：

- 2、产品结构合理、密封可靠、性能优良、造型美观。
- 3、密封面堆焊Co基硬质合金，耐磨、耐蚀、抗擦伤性能好，使用寿命长。
- 4、阀杆经调质及表面氮化处理，有良好的抗腐蚀性及抗擦伤性。
- 5、公称压力≥15.0MPa(Class900)中腔采用自紧密封式结构，密封性能随压力升高而增强，保证了密封性能。
- 6、阀门设有倒密封结构，密封可靠。
- 7、零件材质及法兰、对焊端尺寸可根据实际工况或用户要求合理选配，满足各种工程需要。

1. Flange connection cast steel gate valve is suitable for pipes of various working conditions such as petroleum, chemical industry, thermal power station, etc., whose nominal pressure is PN1.6~42.0MPa (Class150~2500) and working temperature is ≤600°C. Road medium. Its main structural features are:

2. The product structure is reasonable, the sealing is reliable, the performance is excellent, and the appearance is beautiful.
3. The sealing surface is welded with Co-based hard alloy, which has good wear resistance, corrosion resistance and scratch resistance and long service life.
4. After quenching and tempering and surface nitriding treatment, the valve stem has good corrosion resistance and scratch resistance.
5. Nominal pressure ≥ 15.0MPa (Class 900) The middle cavity adopts a self-tight sealing structure, and the sealing performance is enhanced with the increase of pressure to ensure the sealing performance.
6. The valve is equipped with an inverted sealing structure, and the sealing is reliable.
7. The material of the parts, flanges, and butt-welding end dimensions can be reasonably selected according to actual working conditions or user requirements to meet various engineering needs.

#### 标准 STD

设计与制造 Design and Manufacture	结构长度 Face to face/ End to end	法兰尺寸 Flange Dimension	对焊连接尺寸 Butt welding dimension	压力温度等级 Pressure Temperature Rating	试验与检验 Inspection and test
GB/T 12234	GB/T 12221	GB/T 9113	GB/T 12224	GB/T 12224	JB/T 9092

#### 产品主要参数 Main Parameter of the Products

压力等级范围 Pressure grade range	PN1.6~42.0MPa (Class150~ 2500)			
通径范围 Nominal Pressure range	DN15~ DN1000(1/2" ~40")			
驱动方式 Driving manner	手轮驱动 Hand wheel driving			齿轮驱动、电动 Gear driving and electric driving
适用范围 Scope of application	PN1.6~4.0 (Class150~300)	PN6.4~10.0 (Class400~600)	PN15.0~42.0 (Class900~2500)	2" ~40" DN50 ~ DN1000
	1/2" ~24" DN15 ~ DN600	1/2" ~12" DN15 ~ DN300	1/2" ~10" DN15 ~ DN250	

## 闸阀概述

Gate Valve Overview

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### ◆ 产品性能规范 Products Performance Specification

压力等级 Pressure	常温试验压力(MPa) Testing pressure at constant temperature (MPa)			适用温度 Applicable temperature	适用介质 Applicable medium
	壳体试验 The shell testing	密封试验 Seal test	上密封试验 Stem sealing testing		
公称压力 (MPa) Nominal rating pressure (PN)	1.6	2.4	1.76	-196~600°C	水、油品、蒸汽等 Water, oil, steam, etc.
	2.5	3.8	2.75		
	4.0	6.0	4.4		
	6.4	9.6	7.04		
	10.0	15.0	11.0		
	16.0	24.0	17.6		
	25.0	37.5	27.5		

### ◆ 弹簧加载填料冲击系统 Spring Loaded Packing Impacting System

如果客户要求,可采用弹簧加载填料冲击系统提高填料密封的持久性和可靠性。

If the customer requires, a spring-loaded packing impact system can be used to improve the durability and reliability of the packing seal.

### ◆ 阀盖垫片形式 Bonnet Gasket

Class 150 闸阀采用不锈钢石墨复合垫片; Class 300 闸阀采用不锈钢石墨缠绕垫片; Class 600 闸阀可用不锈钢石墨缠绕垫片也可采用金属环垫片; Class 900 闸阀可采用金属环垫片 Class 1500~Class 2500 闸阀采用自压密封金属环。

Carbon steel or stainless steel+flexible graphite combined gasket is used for Class 150 gate valve; Stainless steel+flexible graphite wounded gasket is used for Class 300 gate valve; Stainless steel + flexible graphite wounded gasket is used for Class 600 gate valve, and ring joint gasket is also optional for Class 600 gate valve; Ring Joint gasket is used for Class 900 gate valve; Pressurized seal design is used for Class 1500~Class 2500 gate valve.

### ◆ 填料密封 Packing Seal

通常采用柔性石墨作为填料材料,可根据用户需求提供 PTFE 或者复合填料材料。填料与填料函接触的表面粗糙度为  $3.2\mu\text{m}$ ,可以保证阀杆与填料接触面接合紧密但是旋转自如,经过精密的机械加工的阀杆密封面粗糙度  $0.8\mu\text{m}$  可以保证阀杆可靠的密封。

Molded flexible graphite is used for packing material. PTFE or combined packing material can be also used if being requested by the customer. The internal surface of the stuffing box, of which area is co-ntacted with the packing, is of excellent finish ( $Ra3.2\mu\text{m}$ ). The stem surface, contacting with the packing, should be rolled and pressed after being precisely machined, so as to reach to the high finish and compa-ctness ( $Ra0.8\mu\text{m}$ ) and ensure the reliable tightness of the stem area.

### ◆ 操作形式 Actuation

一般情况下采用手轮驱动或者齿轮传动方式,可根据用户需要用链轮传动或者电装驱动。

Hand wheel or gear box is usually used for gate valve actuation. Chain wheel and electric actuator can be also used for gate valve actuation if being requested by the customers.

<http://www.utmost-valve.com>

## 闸阀概述

Gate Valve Overview

Utmost®  
品质与艺术完美结合

### ◆ 闸板设计 Design Of Disc

NPS $\geq$ 2"弹性闸板; NPS $<$ 2"刚性闸板。

Gate valves with NPS $\geq$ 2 are of wedge flexible gate; Gate valves with NPS $<$ 2 are of wedge solid gate.

### ◆ 倒密封设计 Back Seating Design

我公司提供的所有闸阀都有倒密封设计,通常情况下,碳钢闸阀的闸座设计采用分离式倒密封结构,不锈钢闸阀的倒密封是直接加工或者是焊后加工。当阀门在全开位置时,倒密封的密封面非常可靠。虽然按照标准 API 600 中有倒密封,但这不作为在带压情况下更换填料的依据。

All our gate valves have the back seating design. In most cases, the carbon steel gate valve is fitted with a renewable back seat. For stainless steel gate valve, the back seat is machined directly in the bonnet or is machined after welding. When the gate valve is at fully open position, the sealing of the back seat can be very reliable. However, as per the requirement of API 600, it is not advisable to add or change packing by the mean of back seating when the valve is pressure containing.

### ◆ 阀座 Seat

碳钢闸阀阀座通常采用锻钢材料,阀座密封面可根据客户要求喷焊硬质合金, NPS $\leq$ 10" 的闸阀采用分离式螺纹旋入式阀座,如果用户需要焊阀座结构也可提供; NPS $\geq$ 12 闸阀采用焊阀座结构; 不锈钢闸阀的阀座一般采用整体式或者在本体上焊硬质合金后直接加工阀座。如果用户有需求,不锈钢闸阀阀座也可采用分离式螺纹旋入式和焊接阀座结构。

For carbon steel gate valve, the seat is usually forged steel. The sealing surface of the seat is spray welded with hard alloy specified by the customer. Renewable threaded seat is used for NPS $\leq$ 10 gate valves, and welded on seat can be also optional if being requested by the customer. Welded on seat is used for NPS $\leq$ 10 carbon steel gate valve. For Stainless steel gate valve, integral seat is usually adopted, or to weld hard alloy directly integrally. Threaded or welded on seat is also optional for stainless steel gate valve if being requested by the customer.

### ◆ 阀杆设计 Stem Design

采用整体锻造工艺制成,按照标准要求确定最小直径,阀杆和阀瓣采用 T 型结构连接。阀杆结合面的强度大于阀杆 T 型螺纹部分的强度,强度试验按照 API 591 进行。

The stem is of integral forged design. The minimum diameter of the stem shall pen the standard requirement. The connection of the stem and disc is T type. The strength of the connecting area is bigger than that of the T threaded part of the stem. The strength test of that area conforms to API 591.

### ◆ 特殊闸阀 Special Gate Valve

除通用闸阀外,还可以提供低温闸阀、波纹管闸阀、夹套闸阀,地下安装的加长阀杆闸阀、平板闸阀等等。

Besides the common gate valves, also makes cry-o-genic gate valve, jacketed Gate Valve, Bellow Sealed Gate Valve, Extension Stem Gate Valve for underground application, Flat Gate Valve, etc.

### ◆ 阀杆螺母 Stem Nut

通常情况下,阀杆螺母材料采用 ASTM A439 D2。可以根据用户要求采用铜合金等材料,对于大口径的闸阀(NPS $\geq$ 10" Class 150; NPS $\geq$ 8"; Class 300; NPS $\geq$ 6" Class 600; NPS $\geq$ 5" Class 900), 阀杆螺母和阀杆之间设计有滚动轴承,可以有效减小闸阀的开启力矩使阀门可以轻松开关。

Normally, the stem nut material adopts ASTM A439 D2. Copper alloy and other materials can be used according to user requirements. For large-caliber gate valves (NPS $\geq$ 10" Class 150; NPS $\geq$ 8"; Class 300; NPS $\geq$ 6" Class 600; NPS $\geq$ 5" Class 900), the stem nut and stem Rolling bearings are designed in the middle, which can effectively reduce the opening torque of the shut-off valve so that the valve can be opened and closed easily.

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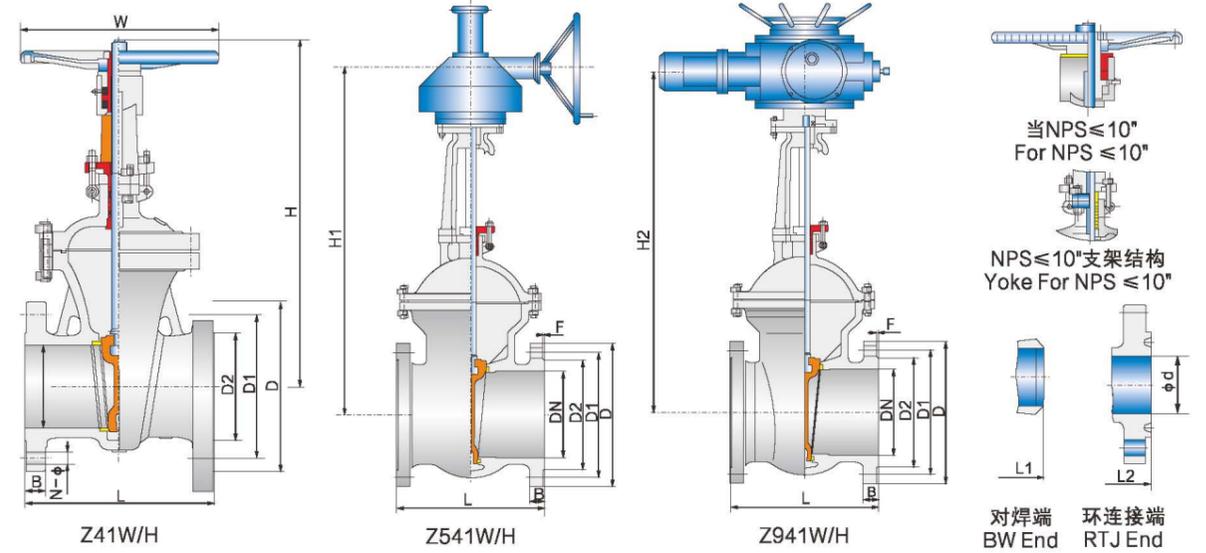
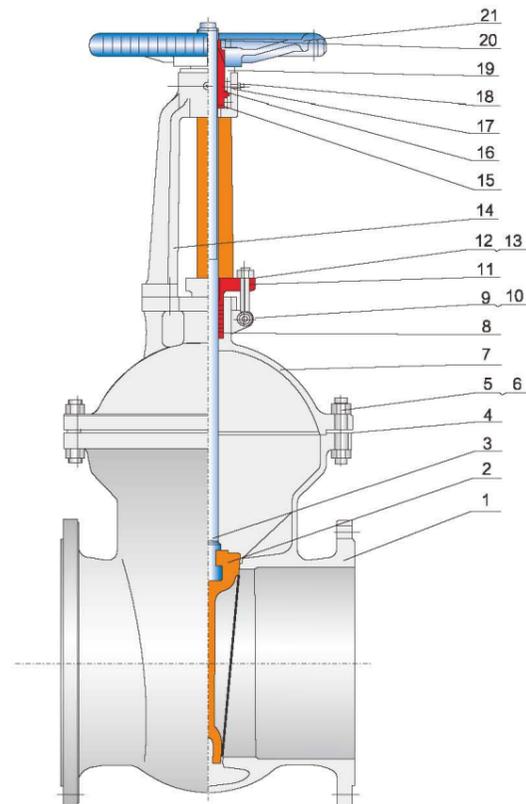
应用规范 Application Of Norms

1. 阀门的设计与制造按 GB/T 12234-2007 的规定
  2. 结构长度按 GB/T 12221-2005 的规定
  3. 连接法兰按 GB/T 9113 的规定
  4. 阀门的检验与试验按 GB/T 13927-2008 的规定
1. Valve design and manufacture according to GB/T 12234-2007 requirements
  2. The structure length, according to GB/T 12221-2005 of the provisions of
  3. The connection flange in accordance with the provisions of GB/T 9113
  4. Valve inspection and test according to GB/T 13927-2008 requirements



主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	ZG0Cr18Ni9	WCB
2	闸板 Wedge	ZG0Cr18Ni9	WCB+STL
3	阀杆 Stem	0Cr18Ni9	2Cr13
4	垫片 Gasket	PTFE	304+石墨
5	螺柱 Stud	0Cr18Ni9	35CrMoA
6	螺母 Nut	0Cr18Ni9	45
7	阀盖 Bonnet	ZG0Cr18Ni9	WCB
8	填料 Stem packing	PTFE	石墨
9	横销 Cross pin	35	35
10	开口销 Cotter pin	25	20
11	填料压盖 Gland	ZG0Cr18Ni9	WCB
12	活节螺栓 Live bolts	0Cr18Ni9	35CrMoA
13	螺母 Nut	0Cr18Ni9	45
14	支架 Support	ZG0Cr18Ni9	WCB
15	轴承 Bearing	轴承钢	轴承钢
16	阀杆螺母 Stem nut	ZCuA110Fe3	组合件
17	轴承 Bearing	35	35
18	油杯 Oil Cup	35	35
19	压盖螺母 Gland nut	35	35
20	销紧螺母 Pin nut	35	35
21	手轮 Handwheel	QT400	QT400



主要连接尺寸 Main Connection Dimensions

		PN1.6MPa																			
尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
L/L1	mm	130	150	160	180	200	250	270	280	300	325	350	400	450	500	550	600	650	700	800	900
H	mm	175	180	210	210	315	358	383	435	525	560	650	785	1225	1415	1630	1780	2050	2181	2599	2845
W	mm	180	180	200	200	200	220	250	280	320	350	350	400	450	500	500	600	720	720	720	720

		PN2.5MPa																			
尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
L/L1	mm	130	150	160	180	200	250	270	280	300	325	350	400	450	500	550	600	650	700	800	900
H	mm	175	180	210	210	315	358	383	435	525	560	650	785	1225	1415	1630	1780	2050	2181	2599	2845
W	mm	180	180	200	200	200	220	250	280	350	350	360	400	450	500	500	600	720	720	720	720

		PN4.0MPa																		
尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	
L/L1	mm	130	150	160	180	200	250	280	310	350	400	450	550	650	750	850	950	1050	1150	
H	mm	175	180	210	210	350	386	430	498	558	650	720	1086	1298	1530	1750	1900	2100	2250	
W	mm	180	180	200	200	200	240	240	280	320	360	360	450	560	560	500	600	720	720	

		PN6.4MPa																		
尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400			
L/L1	mm	170	190	210	230	240	250	280	310	350	400	450	550	650	750	850	950			
H	mm	175	180	210	210	350	358	373	435	500	614	674	818	1225	1415	1630	1780			
W	mm	120	120	140	160	200	240	280	320	360	400	400	450	560	640	800	800			

		PN16.0MPa																		
尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150	200							
L1/L2	mm	170	190	210	230	260	300	340	390	450	525	600	750							
H	mm	230	360	280	312	350	512	560	585	613	723	820	990							
W	mm	200	200	280	160	200	240	280	320	450	560	640	720							

# 弹性座封闸阀

## Flexible Seat Seal Gate Valve



### 产品概述 Product overview

弹性座封闸阀采用特种橡胶全包裹整体弹性阀芯结构，和一般闸阀相比不存在漏水或生锈等现象。克服了它们普遍存在的密封不良、弹性疲劳、橡胶老化及密封副磨损生锈等缺陷。充分利用弹性密封产生微量变形的补偿作用达到良好的密封效果。可广泛用于供水、石化、冶金、船舶、食品医药及能源系统等流体管路上作为调节和截流装置使用。

Resilient seated gate valves made of special rubber elasticity full wrap-piece valve structure, and the general absence of gate leakage or rust compared to other phenomena. Overcome their common seal bad, elastic fatigue, wear rubber aging and Sealing rust and other defects. Produced by the elastic sealing full compensation of small quantities of deformation to achieve a good sealing effect. It can be widely used in water supply, petrochemical, metallurgy, shipbuilding, food, pharmaceuticals and energy systems and other fluid line is used as a regulator and shut-off devices.

### 产品特点 Feature

- 1、整体包胶：阀芯采用高性能橡胶和最新的硫化技术进行整体包覆，贴合紧密牢固，几何尺寸精确，密封可靠，使用寿命长。
- 2、重量轻：阀体球墨铸铁材料，重量较一般闸阀减轻25%，安装维修方便；阀门最大打开高度一般闸阀低60mm~280mm，可安装有空间限制的场所。
- 3、平底式阀座：底部采用与管道相同的平底式阀座设计，不会产生杂物堆积，流通畅通无阻且密封可靠。
- 4、耐腐蚀性：阀门内腔采用无毒环氧树脂粉末涂装，内件采用铜合金和不锈钢可防止腐蚀和生锈，不但可用于饮水、食品等系统，而且可用于污水或地下等系统中。
- 5、三“O”密封：阀杆上密封处采用O型圈密封，摩擦阻力小，开关轻巧不漏水。

- 1, the overall package of plastic: the spool and the latest high-performance rubber vulcanization technology overall coating, laminating are tight, accurate geometry, reliable sealing and long service life.
- 2, light weight: body ductile iron material, gate valve to reduce weight than the average 25%, easy installation and maintenance; gate valve maximum opening height is generally low 60mm - 280mm, can be installed where space is limited.
- 3, flat style seat: The bottom of the pipe the same flat style seat design, does not produce debris accumulation, flow channel unimpeded and reliable sealing.
- 4, corrosion resistance: the valve cavity using non-toxic epoxy powder coating, inner parts mining copper alloy and stainless steel to prevent corrosion and rust, not only can be used for drinking water, food and other systems, and can be used for sewage or underground systems the.
- 5, the three "O" seal: the use of the stem seal O-ring seals, friction is small, lightweight and watertight switch.

### 主要性能规范 Main performance specification

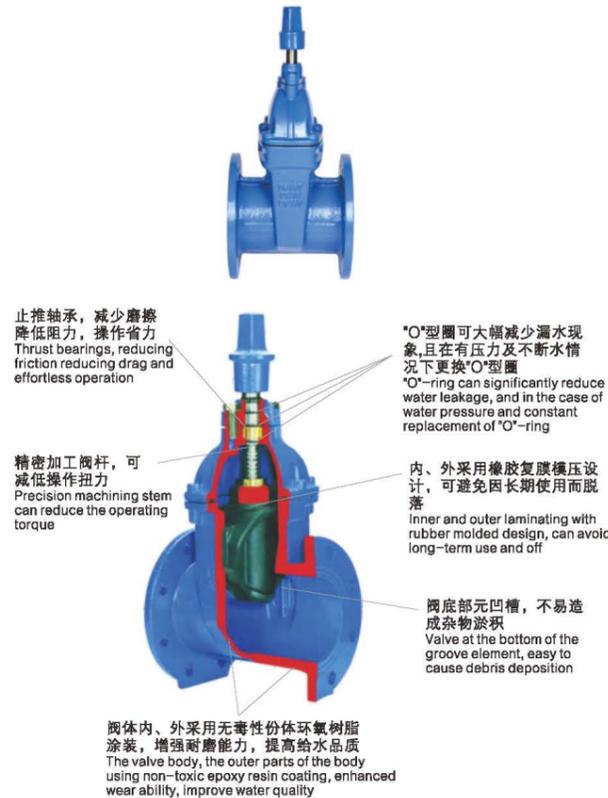
公称压力 PN(MPa) Nominal Pressure	强度试验 Strength Test	密封试验 Seal test	工作温度(°C) Working Temperature	适用介质 Applicable medium
1.0	1.5	1.1	≤80°C	清水、源水、污水、 空气、油品 Water, Source Water, Sewage, Air, Oil
1.6	2.4	1.8		
2.5	3.8	2.8		

### 执行标准 Performance standard

设计与制造标准 Design and manufacturing standards	法兰连接标准 Flanged standard	结构长度标准 The structure length standard	检验与试验标准 Inspection and Test Standard
GB/T 12232-2005	JB/T78-1994、 JB/T79.1-1994	GB/T 12221-2005	JB/T9092-1999

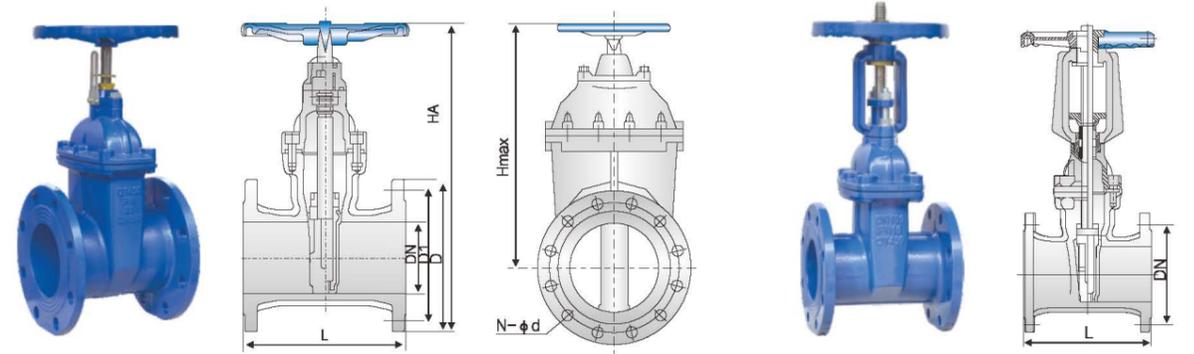
### 主要零部件材料 Materials of main parts

No.	零件名称 Name	材料 Material
1	阀体 Body	球墨铸铁 Spheroidal Graphite Cast Iron
2	阀瓣 Disc	球墨铸铁外覆EPDM Nodular cast iron with EPDM
3	铜螺母 Copper Nut	青铜 Bronze
4	阀杆 Valve Stem	2Cr13
5	固定螺栓 Fixed Bolt	钢制或镀锌螺栓 Steel or galvanized bolt
6	阀盖 Bonnet	球墨铸铁 Spheroidal Graphite Cast Iron
7	O形圈 O-ring	NBR
8	止推轴承 Block Bearing	青铜 Bronze
9	轴盖 Shaft Cover	球墨铸铁 Spheroidal Graphite Cast Iron
10	O形圈 O-ring	NBR
11	手轮 Handwheel	铸铁 Cast Iron
12	螺母 Nut	不锈钢 Stainless Steel
13	螺栓 Bolt	钢制或镀锌螺栓 Steel or galvanized bolt
14	铜螺母 Copper Nut	青铜 Bronze
15	止推轴承 Block Bearing	青铜 Bronze
16	螺栓 Bolt	镀锌螺栓 Galvanized bolt
17	放气螺母 Deflation Nut	黄铜 Brass



# 弹性座封闸阀

## Flexible Seat Seal Gate Valve



### 主要连接尺寸 Main Connection Dimensions

单位Unit: mm

公称通径 DN(mm) Nominal Diameter	L	Hmax	D			D1			N-φd			
			1.0/1.6MPa	2.5MPa	1.0MPa	1.6MPa	2.5MPa	1.0MPa	1.6MPa	2.5MPa		
40	1	165	/	145		110		4-18				
50	2	178	380	160		125		4-18				
65	2	190	425	180		145		4-18	8-18			
80	3	203	383	195		160		4-18	4-18	8-18		
100	4	229	421	215	/	180	/	8-18		8-23		
125	5	254	550	245	/	210	/	8-18		8-25		
150	6	267	527	285	230	240	190	8-23		8-25		
200	8	292	606	335	270	295	220	8-23	12-23	12-25		
250	10	330	715	390	405	300	350	355	250	12-23	12-25	12-30
300	12	356	791	440	460	360	400	410	310	12-23	12-25	16-30
350	14	381	959	500	520	425	460	470	370	16-23	16-25	/
400	16	406	1175	565	580	485	515	525	430	16-25	16-30	/
450	18	432	1195	615	640	/	565	585	/	20-25	20-30	/
500	20	457	1216	670	715	/	620	650	/	20-25	20-34	/
600	24	508	1371	780	840	/	725	770	/	20-30	20-41	/
700	28	610	1550	895	910	/	840	840	/	24-30	24-41	/
800	32	660	1750	1015	1025	/	950	950	/	24-34	24-41	/
900	36	711	1950	1115	/	/	1050	/	/	28-34	/	/
1000	40	811	2170	1230	/	/	1160	/	/	38-38	/	/

- 注: 1. RVXX表示非明杆式闸阀  
RVEX表示非明杆式附电动操作装置  
RVXC表示非明杆式附传动帽  
RRXX表示明杆式闸阀  
RRHX表示明杆式附手轮
- RVHS表示非明杆式附信号显示器  
RVXP表示省力装置  
RVCH表示非明杆式传动帽卧式操作装置  
RVHX表示非明杆式附手轮  
RREX表示明杆式附电动操作装置
- Note: 1. RVXX stands for non-rising stem type gate valve.  
RVHS stands for non-rising stem type with signal indicator.  
RVEX stands for non-rising stem type with electric operating mechanism.  
RVXP stands for labor-saving mechanism.  
RVXC stands for non-rising stem type with drive cap.  
RVCH stands for non-rising stem type with drive cap horizontal operating mechanism.  
RRXX rising stem type gate valve.  
RRHX stands for non-rising stem type with handwheel.  
RREX stands for rising stem type with electric operating mechanism.
2. 为提高性能，本企业保留对产品和样品的修改权利，恕不另行通知。  
3. 本阀门结构长度按GB/T12221-2005-3标准。
2. For the sake of performance improvement, we reserve the right to modify our products and samples without prior notice.  
3. End to end as per GB/T 12221-2005-3.

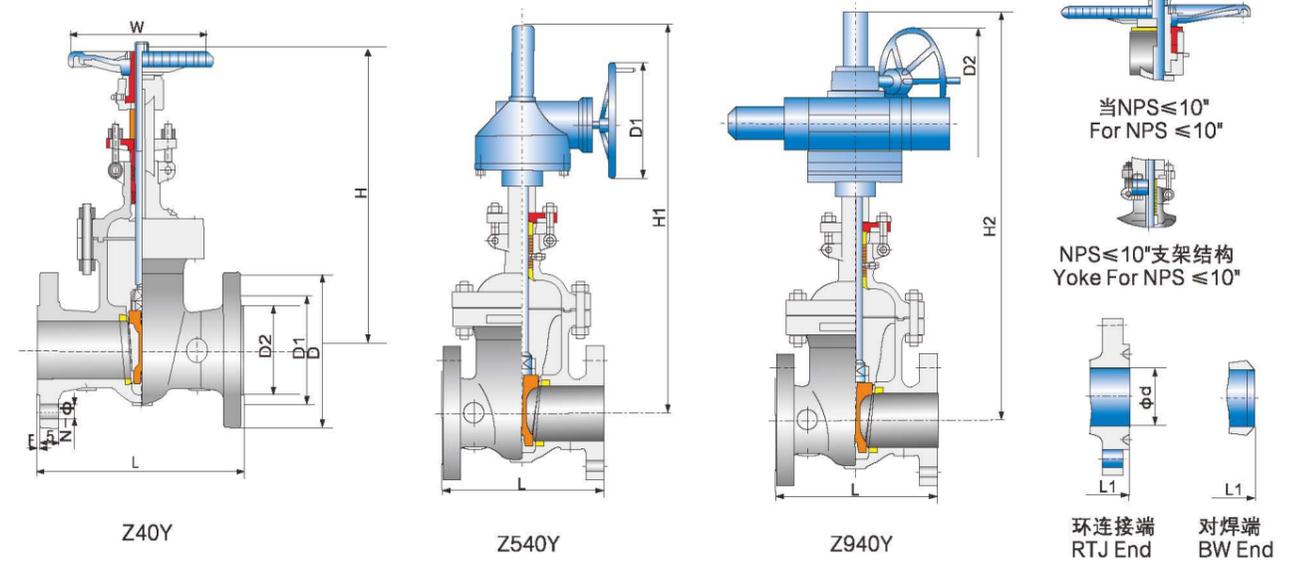
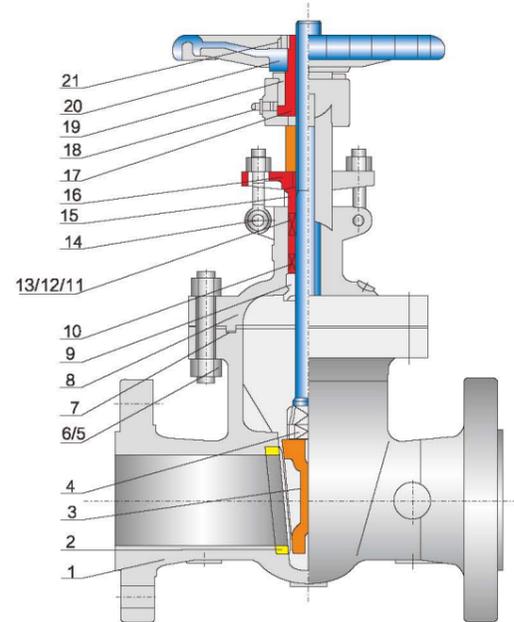
◆应用规范 Application Of Norms

- 1、阀门的设计与制造按API600的规定
  - 2、阀门的压力温度基准按照ANSI B 16.34的规定
  - 3、结构长度按照ANSI B 16.10的规定
  - 4、连接法兰按照ANSI B 16.5的规定
  - 5、阀门的检验与验收按API598的规定
  - 6、阀门试压合格后、应擦干通道、涂防锈油、并用闷盖盖好两法兰
- 1、 Valve design and manufacture according to API600 requirement
  - 2、 Valve pressure and temperature standard according to ANSI B 16.34 requirements
  - 3、 Structural length according to ANSI B 16.10 requirements
  - 4、 The connection flange according to ANSI B 16.5 requirements
  - 5、 Valve inspection and acceptance by API598 requirements
  - 6、 Valve pressure test after passing the channel to be dry, coated antirust oil, And cover with a boring cover two flanges



◆主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	A351 CF3M	A216 WCB
2	阀座 seat ring	A182F316L+STL	A105+STL
3	闸板 wedge	A351 CF3M	A216 WCB
4	阀杆 stem	A182F316L	F6A
5	螺栓 Bonnet bolt	A193 B8	A193 B7
6	螺母 Bonnet nut	A194 8	A194 2H
7	垫片 Gasket	PTFE	304+石墨
8	阀盖 Bonnet	A351 CF3M	A216 WCB
9	上密封座 Backseat bushing	A182F316L	F6a
10	填料 Stem packing	PTFE	柔性石墨 Flexible graphite
11	隔环 Lantern	A182 F316L	A276-420
12	销 Pin	A182F6	A182 F6
13	螺栓 Blot	A193 B8	A194 B7
14	螺母 Bonnet nut	A194 8	A194 2H
15	填料压套 Gland	A182F316L	A276-420
16	填料压板 Gland flange	A351 CF3M	A216 WCB
17	阀杆螺母 stem nut	ZCuA10Fe3	ZCuAl10Fe3
18	油杯 Oil cup	Copper alloy	Copper alloy
19	轴承压盖 Retaining nut	Carbon steel	Copper steel
20	手轮 Hand wheel	Ductile iron	Ductile iron
21	锁紧螺母 H.W.ock.nut	Carbon steel	Carbon steel



◆主要连接尺寸 Main Connection Dimensions

NPS		2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	40	42
L	RF	178	191	203	229	267	292	330	356	381	406	432	457	508	559	610	610	711	711	762	787
	BW	216	241	283	305	403	419	457	502	572	610	660	711	813	864	914	914	965	1016	1067	1118
手动 Manual operated	H1	400	490	510	585	775	955	1160	1375	1570	1765	1980	-	-	-	-	-	-	-	-	-
	D0	200	200	250	300	350	350	400	450	500	600	700	-	-	-	-	-	-	-	-	-
伞齿轮 Belve Gear	H2	-	-	-	-	-	-	-	1668	1920	2115	2215	2600	2908	3046	3135	3293	3726	4030	4229	-
电动 Electromotor operated	H3	-	-	-	-	-	-	-	1668	1920	2115	2215	2600	2908	3046	3135	3293	3726	4030	4229	-

CLASS150Lb

NPS		2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	40	42
L	RF	216	241	283	305	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1727	-	-
	BW	216	241	283	305	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1727	-	-
手动 Manual operated	H1	470	525	535	635	805	1025	1230	1460	1645	-	1840	-	-	-	-	-	-	-	-	-
	D0	200	200	300	300	350	400	450	500	600	-	600	-	-	-	-	-	-	-	-	-
伞齿轮 Belve Gear	H2	-	-	-	-	-	-	-	-	-	-	1935	2155	2572	2908	3100	3153	3293	-	-	-
电动 Electromotor operated	H3	-	-	-	-	-	-	-	-	-	-	1935	2155	2572	2908	3100	3153	3293	3754	4120	4350

CLASS 300Lb

◆ 主要连接尺寸 Main Connection Dimensions

CLASS600Lb

NPS		2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30
L	RF	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1448	1549	1651
	BW	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1448	1549	1651
手动 Manual operated	H1	474	530	547	703	913	1077	1276	1499	-	-	-	-	-	-	-	-
	D0	250	250	300	350	450	500	600	680	-	-	-	-	-	-	-	-
伞齿轮 Belve Gear	H2	-	-	-	-	-	-	-	1470	1625	2089	2211	2616	2921	2960	3050	3112
电动 Electromotor operated	H3	-	-	-	-	-	-	-	1470	1625	2089	2211	2616	2921	2960	3050	3112

CLASS900Lb

NPS		2	2 1/2	3	4	6	8	12	14	16	18	20	24
L	RF	368	381	419	457	610	737	965	1029	1130	1219	1321	1549
	BW	368	381	419	457	610	737	-	-	-	-	-	-
手动 Manual operated	H1	620	695	705	825	1065	1318	-	-	-	-	-	-
	D0	300	350	350	400	500	600	-	-	-	-	-	-
伞齿轮 Belve Gear	H2	-	-	-	-	800	940	1691	1877	2143	2130	2750	3150
电动 Electromotor operated	H3	-	-	-	-	800	940	1691	1877	2143	2130	2750	3150

CLASS1500Lb

NPS		2	3	4	6	8	10	12	14	16	18	20	24
L	RF	371	473	549	771	841	1000	1146	1276	4107	-	-	-
	BW	-	-	-	-	-	-	-	-	-	-	-	-
手动 Manual operated	H1	510	620	728	1000	1300	1360	-	-	-	-	-	-
	D0	-	-	-	-	-	-	-	-	-	-	-	-
伞齿轮 Belve Gear	H2	-	670	770	1070	1180	1410	1620	2020	2180	-	-	-
电动 Electromotor operated	H3	-	-	-	1070	1180	1410	1620	2020	2180	-	-	-

CLASS2500Lb

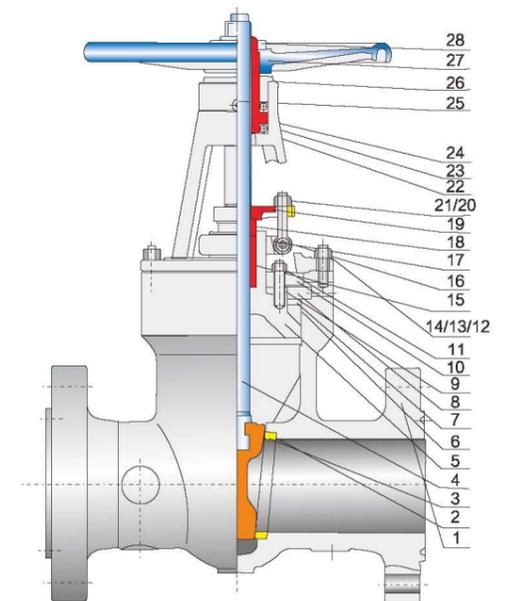
NPS		2	3	4	6	8	10	12
L	RF	451	578	673	914	1022	1270	1422
	BW	451	578	673	914	1022	1270	1422
手动 Manual operated	H1	630	890	-	-	-	-	-
	D0	-	-	-	-	-	-	-
伞齿轮 Belve Gear	H2	-	-	-	-	-	-	-
电动 Electromotor operated	H3	-	-	-	1191	1347	1445	1692

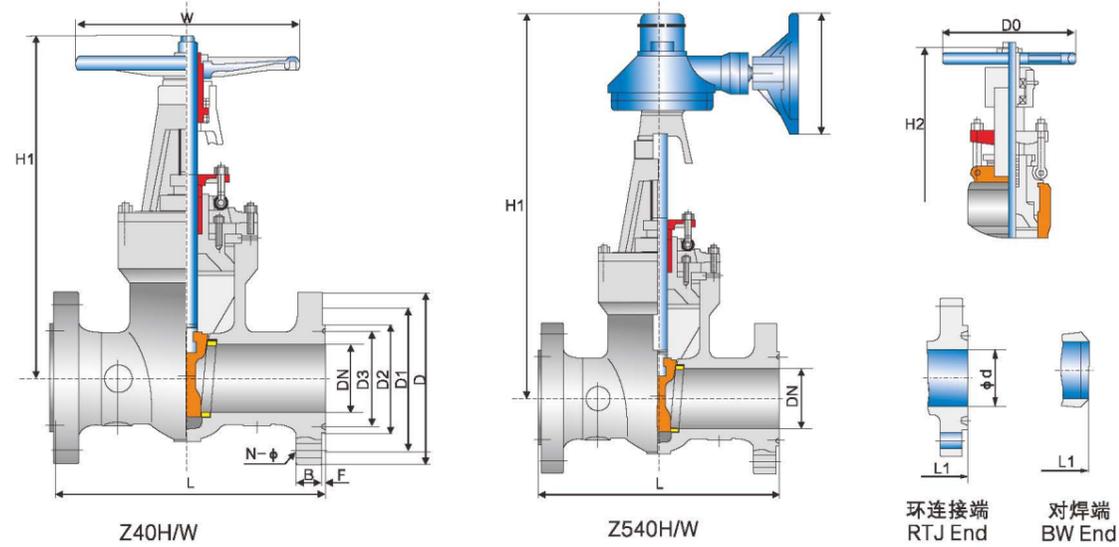
◆ 应用规范 Application Of Norms

- 1、阀门的设计与制造按API600的规定
  - 2、结构长度按ANSI B 16.10的规定
  - 3、连接法兰按ANSI B 16.5的规定
  - 4、阀门的检验与验收按API598的规定
- 1、 Valve design and manufacture according to API600 requirements
  - 2、 Structural length according to ANSI B 16.10 requirements
  - 3、 The connection flange according to ANSI B 16.5 requirements
  - 4、 Valve inspection and acceptance by API598 requirments

◆ 主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	A351-CF8	A216-WCB
2	阀座 seat ring	A182-F304	A105+STL
3	闸板 wedge	A351-CF8	WCB+STL
4	阀杆 stem	A182-F304	2Cr13
5	螺柱 Bonnet bolt	A182-F304	A105
6	内压自密封座 Internal pressure form the sealing seat	柔性石墨	柔性石墨
7	内压自密封座 Internal pressure form the sealing seat	A182-F304	A105
8	垫片 Gasket	A182-F304	A105
9	对开环 Ring off	A182-F304	A105
10	定位环 Positioning ring	A182-F304	A105
11	压板 Plate	A193-B8	A193-B7
12	双头螺栓 Stud	A194-8	A194-2H
13	螺母 Nut	A193-B8	A193-B7
14	双头螺栓 Stud	A194-8	A194-2H
15	螺母 Bonnet nut	A29M-1045	A29M-1045
16	填料 Stem packing	柔性石墨	柔性石墨
17	圆柱销 Cylindrical pin	A182-F304	A105
18	千斤架 Jin frame	A351-CF8	WCB
19	填料压套 packing pressure sleeve	A351-CF8	WCB
20	活节螺栓 Live bolts	A193-B7	A193-B7
21	螺母 Bonnet nut	A194-2H	A194-2H
22	支架 Support	A351-CF8	WCB
23	轴承 Bearing	不锈钢	不锈钢
24	阀杆螺母 stem nut	Cu38-2-2	Cu38-2-2
25	注油杯 Oilling Cup	Brass+steel	Brass+steel
26	轴承压盖 Retaining nut	A105	A105
27	手轮 Hand wheel	QT500-7	QT500-7
28	圆螺母 Round nut	A29M-1035	A29M-1035





◆ 主要连接尺寸 Main Connection Dimensions

CLASS900Lb

NPS		2	3	2 1/2	4	6	8	12	14	16	18	20	24
L	RF	368	381	419	457	610	737	965	1029	1130	1219	1321	1549
	BW	368	381	419	457	610	737	-	-	-	-	-	-
手动 Manual operated	H1	620	695	705	825	1065	1318	-	-	-	-	-	-
	D0	300	350	350	400	500	600	-	-	-	-	-	-
伞齿轮 Bevel Gear 电动 Electromotor operated	H2	-	-	-	-	800	940	1691	1877	2143	2310	2750	3150
	H3	-	-	-	-	800	940	1691	1877	2143	2310	2750	3150

CLASS1500Lb

NPS		2	3	4	6	8	10	12	14	16	18	20	24
L	RTJ	371	473	549	711	841	1000	1146	1276	1407	-	-	-
	BW	-	-	-	-	-	-	-	-	-	-	-	-
手动 Manual operated	H1	510	620	728	1000	1300	1360	-	-	-	-	-	-
	D0	-	-	-	-	-	-	-	-	-	-	-	-
伞齿轮 Bevel Gear 电动 Electromotor operated	H2	-	670	770	1070	1180	1410	1620	2020	2180	-	-	-
	H3	-	-	-	1070	1180	1410	1620	2020	2180	-	-	-

CLASS2500Lb

NPS		2	3	4	6	8	10	12
L	RTJ	451	578	673	914	1022	1270	1442
	BW	451	578	673	914	1022	1270	1442
手动 Manual operated	H1	630	890	-	-	-	-	-
	D0	-	-	-	-	-	-	-
伞齿轮 Bevel Gear 电动 Electromotor operated	H2	-	-	-	-	-	-	-
	H3	-	-	1191	1347	1445	1692	1914

# Knife Gate Valve

## 刀闸阀系列

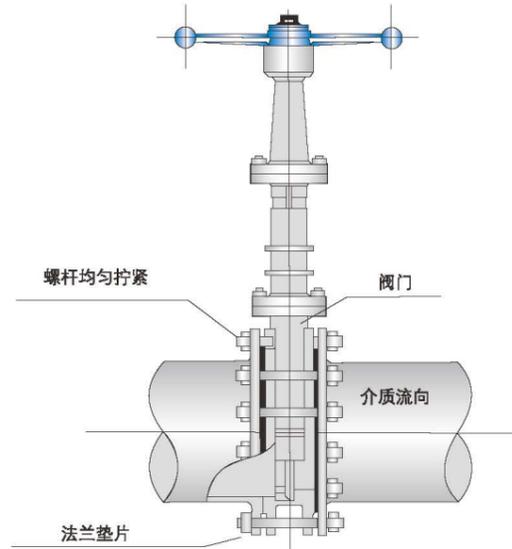


刀闸阀的启闭件是闸板，闸板的运动方向与流体方向相垂直，靠可以切割纤维材料的刀刃形闸板来切断介质，闸板有两个密封面，最常用的模式闸板阀的两个密封面形成楔形、楔形角随阀门参数而异，通常为5°。刀闸阀具有较小的安装空间，工作压力低，不易堆积杂物，价格较低。

The opening and closing part of the knife gate valve is the gate. The movement direction of the gate is perpendicular to the fluid direction. The medium is cut off by the knife edge gate which can cut fiber materials. The gate has two sealing surfaces. The two sealing surfaces of the most commonly used mode gate valve form a wedge, and the wedge angle varies with the valve parameters, usually 5°. Knife gate valve has small installation space, low working pressure, not easy to accumulate sundries and low price.

## 刀型闸阀安装使用说明 Knife Gate Valve Installation Instructions

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### ◆ 安装说明及注意事项 Installation instructions and precautions

- 1、刀型闸阀安装前须检查阀门腔内和密封面等部分，不允许有污物或砂粒附着。
- 2、各连接部位螺栓，要求均匀拧紧。
- 3、检查填料部位要求压紧，即保证填料的密封性，也要保证闸板开启灵活。
- 4、用户在安装阀门前，必须校对阀门型号，连接尺寸及注意介质流向，保证与阀门要求一致。
- 5、用户在安装阀门时，必须预留阀门驱动安装的必要空间。
- 6、驱动装置的接线需按线路图进行安装。
- 7、刀闸阀必须定期保养，不得随意碰撞及挤压，以免影响密封。

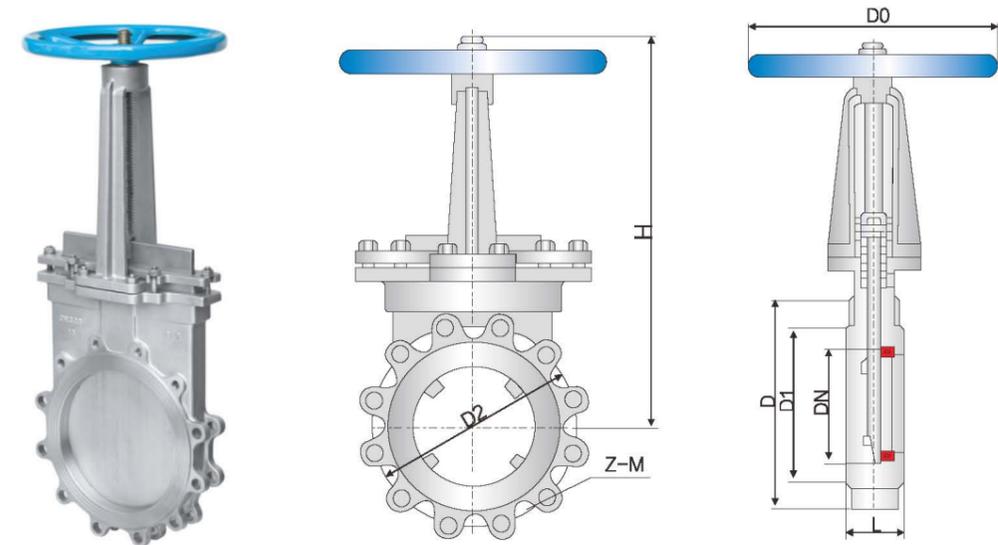
1. Before installing the knife gate valve, check the inside of the valve cavity and the sealing surface. No dirt or sand particles are allowed to adhere.
2. The bolts of each connection part shall be tightened evenly.
3. Check that the packing parts are required to be pressed tightly, that is, to ensure the tightness of the packing, but also to ensure that the gate is opened flexibly.
4. Before installing the valve, the user must check the valve model, connection size and pay attention to the flow direction of the medium to ensure that it is consistent with the valve requirements.
5. When installing the valve, the user must reserve the necessary space for the valve drive installation.
6. The wiring of the drive device needs to be installed according to the wiring diagram.
7. Knife gate valves must be maintained regularly, and collisions and squeezing are not allowed, so as not to affect the sealing.

### ◆ 维护 Maintain

可能的故障原因 Possible cause of failure	可能的故障原因 Possible cause of failure	排除故障的方法 How to troubleshoot
密封泄漏 Seal leak	密封圈有杂物 There is debris in the sealing ring	清洁密封面 Clean the sealing surface
	密封圈损坏 Damaged seal	更换密封圈或硬座密封面 Replace the sealing ring or hard seat sealing surface
上密封密封泄漏 Upper seal leaks	上密封填料松动 Loose upper packing	拧紧填料或压盖上的螺栓 Tighten the bolts on the packing or gland
	上密封填料失效 Upper seal packing failure	注油或更换上密封填料 Fill oil or replace the upper sealing packing
法兰端面 Flange face	连接螺栓未均匀拧紧 The connecting bolts are not evenly tightened	均匀拧紧法兰连接螺栓 Tighten the flange connecting bolts evenly
	法兰垫片失效 Flange gasket failure	更换法兰垫片 Replace flange gasket
阀门开关卡涩 Valve switch jam	驱动装置失去润滑 Drive unit loses lubrication	给阀门驱动装置加注润滑油 Fill the valve drive with lubricating oil
阀门开关失灵 Valve switch failure	驱动装置损坏 Drive device is damaged	更换驱动装置或请专业人士维修 Replace the drive device or ask a professional to repair it

## 刀型闸阀 Knife Gate Valve

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### ◆ 产品概述 Product description

刀型闸阀是刀型闸阀的一种，开启关闭过程中驱动装置与阀杆闸板同轴，开启力矩较小，操作方便省力，具有重量轻、结构简单、密封性可靠、使用寿命长、能有效切断介质中纤维的优点，其密封原理是通过闸板关闭到底部时，闸板斜切面碰到阀体上的楔块使得闸板紧靠密封面起到密封效果，并且闸板底部的斜切面具有切断介质的功能，使得阀门不易受杂物的堵塞卡阻，亦可刮除密封面上的粘着物，自动清除杂物，不锈钢闸板可防止腐蚀引起的密封泄漏。适宜浆料、粉粒料、纤维等难以控制的流体，广泛应用于造纸、石油、化工、排水、食品等行业。

Knife gate valve is a kind of knife gate valve. During the opening and closing process, the driving device is coaxial with the valve stem gate, the opening torque is small, the operation is convenient and labor-saving, and it has light weight, simple structure, reliable sealing and long service life. It can effectively cut off the fiber in the medium. The sealing principle is that when the gate is closed to the bottom, the chamfered surface of the gate touches the wedge block on the valve body, so that the gate is close to the sealing surface to achieve a sealing effect, and the bottom of the gate The beveled surface has the function of cutting off the medium, so that the valve is not easily blocked by debris. It can also scrape off the adhesion on the sealing surface and automatically remove the debris. The stainless steel gate can prevent seal leakage caused by corrosion. It is suitable for fluids that are difficult to control, such as slurry, powder, and fiber, and is widely used in papermaking, petroleum, chemical, drainage, food and other industries.

### ◆ 工作性能 Work performance

刀闸阀因采用刀型闸板，具有良好的剪切作用，最适宜于浆料、粉粒料、纤维等难以控制的流体，广泛应用于造纸、石化、矿山、排水、食品等行业。具有多种阀座可供选择，并且可依据现场控制需求，配备电动或气动执行器，实现阀门的自动化操作。刀闸阀因采用刀型闸板，具有良好的剪切作用，最适宜于浆料、粉粒料、纤维等难以控制的流体。

材质: 铸铁、碳钢、不锈钢  
尺寸范围: DN50~DN600  
最大压力: 1.0MPa

Knife gate valve has good shearing effect due to its knife-shaped gate. It is most suitable for fluids that are difficult to control such as slurry, powdered material, fiber, etc. It is widely used in papermaking, petrochemical, mining, drainage, food and other industries. It has a variety of valve seats to choose from, and can be equipped with electric or pneumatic actuators according to on-site control requirements to realize automatic valve operation. The knife gate valve has a good shearing effect due to the use of a knife-shaped gate, and is most suitable for fluids that are difficult to control such as slurry, powder, and fiber.

Material: cast iron, carbon steel, stainless steel  
Size range: DN50~DN600  
Maximum pressure: 1.0MPa

## 刀型闸阀 Knife Gate Valve

**Utmost®**  
品质与艺术完美结合

### ◆ 主要技术参数 Main technical parameters

- |                                  |  |
|----------------------------------|--|
| 1. 阀门的设计与制造:JB/T8691、GB/T12224   | 1.Valve design and manufacturing: JB/T8691, GB/T12224                                    |
| 2. 阀门的结构长度:GB/T12221             | 2.The structural length of the valve: GB/T12221  |
| 3. 法兰的连接尺寸:GB/T9113、HG/T20592    | 3.Flange connection size: GB/T9113, HG/T20592  |
| 4. 阀门的检验与试验:GB/T13927、MSSP SP-61 | 4.Valve inspection and testing: GB/T13927, MSSP SP-61                                    |
| 5. 电动驱动装置连接尺寸:JB/T 8530          | 5.Electric drive device connection size: JB/T 8530                                       |
| 6. 阀门的使用温度根据密封型式与阀门材料。           | 6.The operating temperature of the valve depends on the sealing type and valve material. |

### ◆ 主要零部件材料 Material of main parts

阀体、阀盖 Valve body, bonnet	闸板 Gate	阀杆 Stem	密封圈 Sealing ring
不锈钢、碳钢、灰铸铁 Stainless steel, carbon steel, gray cast iron	碳钢、不锈钢 Carbon steel, stainless steel	不锈钢 Stainless steel	橡胶、四氟、不锈钢、硬质合金 Rubber, PTFE, stainless steel, cemented carbide

### ◆ 主要性能规范 Main performance specifications

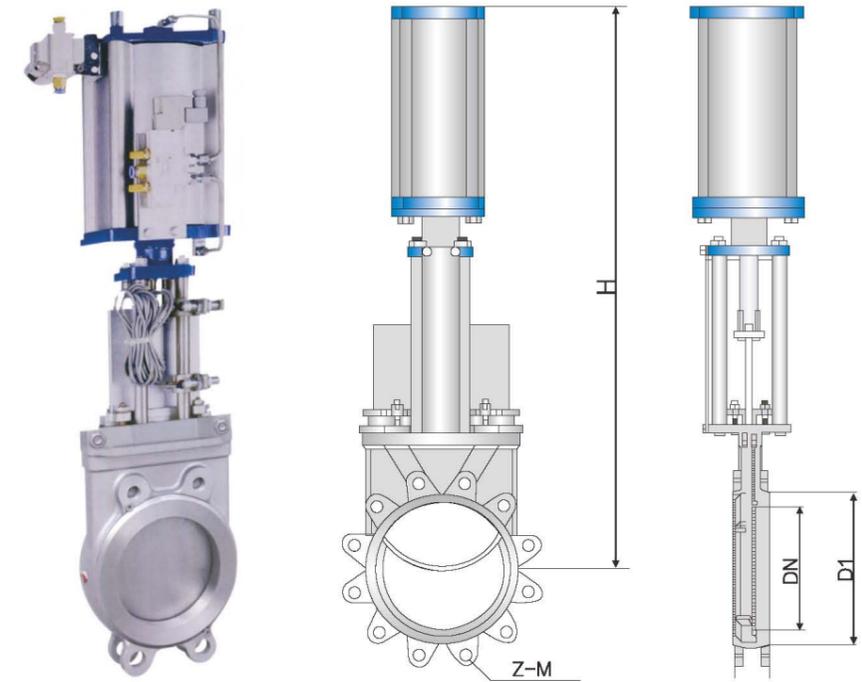
公称压力PN Nominal pressure PN	壳体试(MPa) Shell test (MPa)	密封试验(MPa) Seal test (MPa)	工作温度 Operating temperature	适用介质 Applicable medium
1.0 1.6	1.5 2.4	1.1 1.8	橡胶Rubber≤80℃ 四氟密封PTFE seal≤180℃ 硬密封Hard seal≤425℃	纸浆、污水、煤炭、灰、渣水混合物 Pulp, sewage, coal, ash, slag water mixture

### ◆ 主要连接尺寸 Main Connection Dimensions

公称压力 Nominal pressure	DN	L	D	D1	D2	H	N-M	D0	重量 (Kg)
1.0MPa	50	48	165	125	99	285	4-M16	180	8.5
	65	48	185	145	118	295	4-M16	180	10.7
	80	50	200	160	132	315	8-M15	220	13
	100	50	220	180	156	365	8-M16	220	15
	150	57	285	240	211	475	8-M20	280	31
	200	70	340	295	266	540	12-M20	360	40.7
	250	70	405	355	319	630	12-M24	360	70
	300	76	460	410	370	780	12-M24	400	107
	350	76	520	470	429	885	16-M24	400	129
	400	89	580	525	480	990	16-M27	400	215
	450	89	640	585	548	1100	20-M27	530	305
	500	114	715	650	609	1200	20-M30	530	410
	600	114	840	775	720	1450	20-M33	600	550

## 气动刀型闸阀 Pneumatic Knife Gate Valve

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### ◆ 产品概述 Product description

气动刀型闸阀采用气动执行器控制的刀型闸阀，运用气动装置实现阀门的开启和关闭。具有重量轻、结构简单、密封性可靠、使用寿命长、能有效切断介质中纤维的优点，其密封原理是通过闸板关闭到底部时，闸板斜切面碰到阀体上的楔块使得闸板紧靠密封面起到密封效果，并且闸板底部的斜切面具有切断介质的功能，使得阀门不易受杂物的堵塞卡阻，亦可刮除密封面上的粘着物，自动清除杂物，不锈钢闸板可防止腐蚀引起的密封泄漏。适宜浆料、粉粒料、纤维等难以控制的流体，广泛应用于造纸、石油、化工、排水、食品等行业。

The pneumatic knife gate valve adopts a knife gate valve controlled by a pneumatic actuator, and uses a pneumatic device to realize the opening and closing of the valve. It has the advantages of light weight, simple structure, reliable sealing, long service life, and effective cutting of fibers in the medium. The sealing principle is that when the gate is closed to the bottom, the chamfer of the gate touches the wedge block on the valve body to make the gate The plate is close to the sealing surface for sealing effect, and the chamfered surface at the bottom of the gate has the function of cutting off the medium, so that the valve is not easily blocked by debris, and it can also scrape off the adhesion on the sealing surface and automatically remove the debris. The stainless steel gate prevents seal leakage caused by corrosion. It is suitable for fluids that are difficult to control, such as slurry, powder, and fiber, and is widely used in papermaking, petroleum, chemical, drainage, food and other industries.

### ◆ 工作性能 Work performance

气动刀型闸阀具有结构简单紧凑、设计合理、轻型节材，密封可靠、操作轻便灵活、体积小、通道流畅、流阻小、重量轻、易安装、易拆卸等优点，可在工作压力1.0MPa-2.5MPa，使用温度-29-425℃情况下正常工作。刀型闸阀其闸板具有剪切功能，可刮除密封面上的粘着物，自动清除杂物，不锈钢闸板可防止腐蚀引起的密封泄漏。

Pneumatic knife gate valve has the advantages of simple and compact structure, reasonable design, light and material saving, reliable sealing, light and flexible operation, small size, smooth passage, small flow resistance, light weight, easy installation, easy disassembly, etc. It can work at a working pressure of 1.0MPa-2.5MPa, normal work under the operating temperature of -29-425℃. The gate of the knife gate valve has a shearing function, which can scrape off the adhesion on the sealing surface and automatically remove the debris. The stainless steel gate can prevent the seal leakage caused by corrosion.

## 气动刀型闸阀

Pneumatic Knife Gate Valve

Utmost®  
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### ◆ 主要技术参数 Main technical parameters

- |                                  |  |
|----------------------------------|--|
| 1. 阀门的设计与制造:JB/T8691、GB/T12224   | 1.Valve design and manufacturing: JB/T8691, GB/T12224                                    |
| 2. 阀门的结构长度:GB/T12221             | 2.The structural length of the valve: GB/T12221  |
| 3. 法兰的连接尺寸:GB/T9113、HG/T20592    | 3.Flange connection size: GB/T9113, HG/T20592  |
| 4. 阀门的检验与试验:GB/T13927、MSSP SP-61 | 4.Valve inspection and testing: GB/T13927, MSSP SP-61                                    |
| 5. 电动驱动装置连接尺寸:JBT 8530           | 5.Electric drive device connection size: JBT 8530  |
| 6. 阀门的使用温度根据密封型式与阀门材料。           | 6.The operating temperature of the valve depends on the sealing type and valve material. |

### ◆ 主要零部件材料 Material of main parts

阀体、阀盖 Valve body, bonnet	闸板 Gate	阀杆 Stem	密封圈 Sealing ring
不锈钢、碳钢、灰铸铁 Stainless steel, carbon steel, gray cast iron	碳钢、不锈钢 Carbon steel, stainless steel	不锈钢 Stainless steel	橡胶、四氟、不锈钢、硬质合金 Rubber, PTFE, stainless steel, cemented carbide

### ◆ 主要性能规范 Main performance specifications

公称压力PN Nominal pressure PN	壳体试(MPa) Shell test (MPa)	密封试验(MPa) Seal test (MPa)	工作温度 Operating temperature	适用介质 Applicable medium
1.0	1.5	1.1	橡胶Rubber≤80℃ 四氟密封PTFE seal≤180℃ 硬密封Hard seal≤425℃	纸浆、污水、煤炭、灰、渣水混合物 Pulp, sewage, coal, ash, slag water mixture

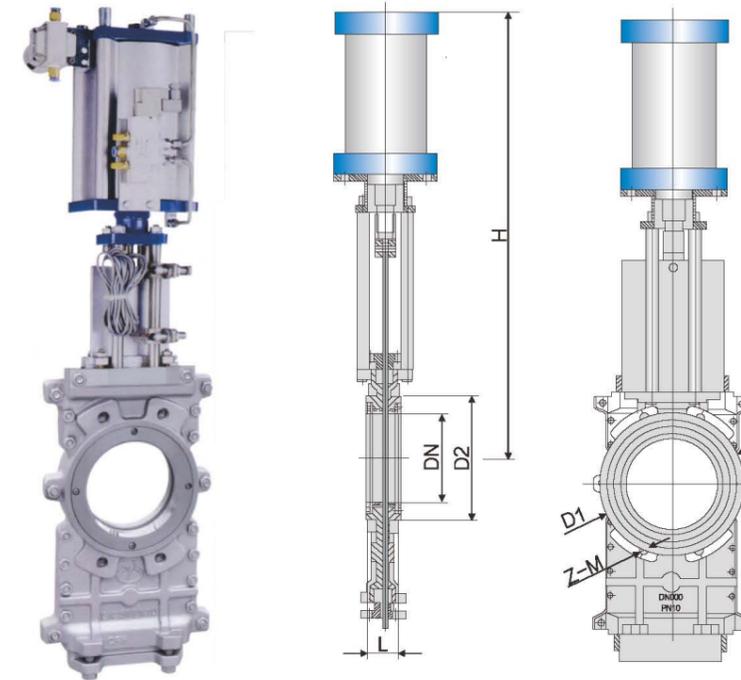
### ◆ 主要连接尺寸 Main Connection Dimensions

公称压力 Nominal pressure	DN	L	D1	D2	H	Z-M
1.0MPa	50	48	100	125	335	4-M16
	65	48	120	145	365	4-M16
	80	50	135	160	395	4-M16
	100	50	155	180	465	8-M16
	125	57	185	210	530	8-M18
	150	60	210	240	630	8-M20
	200	60	265	295	750	8-M20
	250	70	320	350	900	12-M20
	300	76	368	400	1120	12-M20
	350	76	428	460	1260	16-M20
	400	89	482	515	1450	16-M22
	450	89	532	565	1600	20-M22
	500	114	585	620	1800	20-M22
	600	114	685	725	2300	20-M27
	700	127	800	840	2500	24-M27
	800	127	898	950	2800	24-M30
900	154	1005	1050	3100	28-M30	
1000	165	1115	1160	3400	28-M30	
1200	190	1325	1380	3600	32-M36	

## 气动穿透式插板阀

Pneumatic Through Conduit Knife Gate Valve

Utmost®  
品质与艺术完美结合



### ◆ 产品概述 Product description

气动穿透式插板阀采用闸板穿透式结构，利用气动装置使阀杆带动闸板作适应往复运动，达到闸门的启闭目的。该阀结构简单、操作灵活、重量轻、无卡阻，特别适用于各类无粘度的固体，颗粒料的输送及流量调节，安装不受角度限制，操作方便，能随时调节开度。主要用于造纸、建材、冶金、矿山、电力、化工、玻璃、轻工、粮食等行业的库顶、库底及进出口等。是适应控制流量变化较大，启动频繁，能够迅速切断的理想设备。

The pneumatic penetrating plug-in valve adopts the penetrating structure of the gate, and the valve rod is used to drive the gate to adapt to the reciprocating movement by a pneumatic device, so as to achieve the purpose of opening and closing the gate. The valve is simple in structure, flexible in operation, light in weight, and has no jamming. It is especially suitable for conveying and adjusting the flow of all kinds of non-viscous solids and grains. The installation is not limited by the angle, the operation is convenient, and the opening can be adjusted at any time. It is mainly used for the top, bottom, import and export of papermaking, building materials, metallurgy, Jushan, electric power, chemical industry, glass, light industry, grain and other industries. It is an ideal equipment that adapts to large changes in control flow, frequent start-ups, and quick cut-off.

### ◆ 工作性能 Work performance

电动或气动插板阀通常与金属密封蝶阀配套使用。以封闭式液动插板阀为例，阀门的启闭由阀座顶开机构（液压缸）和闸板行走机构（液压电机）两部分组成，闸板分别设置通孔座和盲孔座。闸板通孔座和盲孔座的切换由顶开（松开闸板）→闸板横移→夹紧（闸板密封副实现密封）等几个动作完成，由此实现阀门的启闭。电动插板阀的阀座顶开机构和闸板行走机构均由电动装置驱动。

Pneumatic knife gate valve has the advantages of simple and compact structure, reasonable design, light and material saving, reliable sealing, light and flexible operation, small size, smooth passage, small flow resistance, light weight, easy installation, easy disassembly, etc. It can work at a working pressure of 1.0MPa-2.5MPa, normal work under the operating temperature of -29-425℃. The gate of the knife gate valve has a shearing function, which can scrape off the adhesion on the sealing surface and automatically remove the debris. The stainless steel gate can prevent the seal leakage caused by corrosion.

## 气动穿透式插板阀

Pneumatic Through Conduit Knife Gate Valve

Utmost®  
品质与艺术完美结合

### ◆ 主要技术参数 Main technical parameters

- |                                   |   |
|-----------------------------------|---|
| 1. 阀门的设计与制造: JB/T8691、GB/T12224   | 1. Valve design and manufacturing: JB/T8691, GB/T12224                                    |
| 2. 阀门的结构长度: GB/T12221             | 2. The structural length of the valve: GB/T12221  |
| 3. 法兰的连接尺寸: GB/T9113、HG/T20592    | 3. Flange connection size: GB/T9113, HG/T20592  |
| 4. 阀门的检验与试验: GB/T13927、MSSP SP-61 | 4. Valve inspection and testing: GB/T13927, MSSP SP-61                                    |
| 5. 电动驱动装置连接尺寸: JB/T 8530          | 5. Electric drive device connection size: JB/T 8530                                       |
| 6. 阀门的使用温度根据密封型式与阀门材料。            | 6. The operating temperature of the valve depends on the sealing type and valve material. |

### ◆ 主要零部件材料 Material of main parts

阀体、阀盖 Valve body, bonnet	阀座 Valve seat	闸板 Gate	填料 Filler	密封圈 Sealing ring
1Cr18Ni9Ti, CF8M, CF8 CF3M, CF3, WCB	A105, 304, 304L, 316, 316L	1Cr18Ni9Ti, CF8M, CF8 CF3M, CF3, 2CF13	PTFF	PTFF、合金密封 Alloy seal

### ◆ 主要性能规范 Main performance specifications

公称压力 PN Nominal pressure PN	壳体试(MPa) Shell test (MPa)	密封试验(MPa) Seal test (MPa)	工作温度 Operating temperature	适用介质 Applicable medium
1.0	1.5	1.1	橡胶 Rubber ≤ 80°C 四氟密封 PTFE seal ≤ 180°C 硬密封 Hard seal ≤ 425°C	纸浆、污水、煤灰、渣水混合物 Pulp, sewage, coal ash, slag water mixture

### ◆ 主要连接尺寸 Main Connection Dimensions

公称压力 Nominal pressure	DN	L	D1	D2	H	Z-M	气缸直径 (m)
1.0MPa	80	50	160	132	556	8-M16	100
	100	50	180	156	604	8-M16	100
	125	50	210	184	703	8-M16	150
	150	60	240	211	862	8-M20	160
	200	70	295	266	954	8-M20	200
	250	70	350	319	1103	12-M20	200
	300	76	400	370	1184	12-M20	200
	350	78	460	430	1582	16-M20	200
	400	82	515	482	1668	16-M24	250
	450	88	565	532	1935	20-M24	320
	500	90	620	585	2030	20-M24	320
	600	110	725	685	2230	20-M27	320

Utmost®  
品质与艺术完美结合

# Globe Valve

## 截止阀系列



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。

Globe valve is a kind of valve that closed parts moving along the centerline of the valve seat. According to the disc movement type, it is positive proportional relation between seat outlet and disc stroke. Because stroke for stem opening and closing is relatively short, there is very reliable cut off function. And also for the positive proportional relation between seat outlet and disc stroke, it is suitable for flow controlling. This kind of valve is good for the usage of cutting off and flow controlling.

## 截止阀概述 Globe Valve Overview

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### ◆ 产品概述 Product description

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。

The shut-off valve refers to the valve whose closing part (disc) moves along the center line of the valve seat. According to this movement form of the valve disc, the change of the valve seat port is proportional to the valve disc stroke. Because the opening or closing stroke of the valve stem of this type of valve is relatively short, and it has a very reliable shut-off function, and because the change of the valve seat port 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 use as a shut-off or adjustment as well as a sanitary sink.

### ◆ 产品特点 Feature

截止阀适用于公称压力PN1.6~16.0MPa，工作温度≤600℃的石油、化工、制药、化肥、电力行业等各种工况的管路上，切断或接通管路介质。其主要结构特点有：

1. 产品结构合理、密封可靠、性能优良、造型美观。
2. 密封面堆焊Co基硬质合金，耐磨、耐蚀、抗擦伤性能好，使用寿命长。
3. 阀杆经调质及表面氮化处理，有良好的抗腐蚀性及抗擦伤性。
4. 公称压力225.0MPa(Class1500)中腔采用自紧密封式结构，密封性能随压力升高而增强，保证了密封性能。
5. 阀门设有倒密封结构，密封可靠。
6. 零件材质及法兰、对焊端尺寸可根据实际工况或用户要求合理选配，满足各种工程需要。

The stop valve is suitable for cutting off or connecting the pipeline medium in various working conditions such as petroleum, chemical, pharmaceutical, fertilizer, electric power industry, etc., with a nominal pressure of PN1.6~16.0MPa and a working temperature of ≤600°C. Its main structural features are:

1. The product has reasonable structure, reliable sealing, excellent performance and beautiful appearance.
2. The sealing surface is welded with Co-based hard alloy, which has good wear resistance, corrosion resistance and scratch resistance and long service life.
3. After quenching and tempering and surface nitriding treatment, the valve stem has good corrosion resistance and scratch resistance.
4. The middle cavity with a nominal pressure of 225.0MPa (Class1500) adopts a self-tight sealing structure, and the sealing performance is enhanced as the pressure rises to ensure the sealing performance.
5. The valve is equipped with an inverted sealing structure, and the sealing is reliable.
6. The material of the parts, flanges, and butt-welding end dimensions can be reasonably selected according to actual working conditions or user requirements to meet various engineering needs.

### ◆ 标准STD

设计与制造 Design and manufacture	结构长度 Face to face/ End to end	法兰尺寸 Flange Dimension	对焊连接尺寸 Butt welding dimension	压力温度等级 Pressure Temperature Rating	试验与检验 Inspection and test
GB/T 12235	GB/T 12221	GB/T 9113	GB/T12224	GB/T 12224	JB/T 9092

### ◆ 产品主要参数Main Parameter of the Products

压力等级范围 Pressure grade range	PN1.6~42.0MPa			
通径范围 Path range	DN15~ DN400(1/2" ~16")			
驱动方式 Driving manner	手轮驱动 Hand wheel driving			齿轮动、电动 Gear driving and electric driving
适用范围 Scope of application	PN1.6~2.5 (Class150~300)	PN6.4~16.0 (Class400~900)	PN25.0~42.0 (Class1500~2500)	1/2" ~16" DN15 ~ DN400
	1/2" ~12" DN15 ~ DN300	1/2" ~16" DN15 ~ DN400	1/2"~10" DN15~ DN250	

## 截止阀概述 Globe Valve Overview

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### ◆ 产品性能规范Products Performance Specification

压力等级 Pressure	常温试验压力(MPa) Testing pressure at constant temperature (MPa)			适用温度 Applicable temperature	适用介质 Applicable medium
	壳体试验 The shell testing	密封试验 Seal test	上密封试验 Stem sealing testing		
公称压力 (MPa) Nominal rating pressure (PN)	1.6	2.4	1.76	-196~600°C	水、油品、蒸汽等 Water, oil, steam, etc.
	2.5	3.75	2.75		
	4.0	6.0	4.4		
	6.4	9.6	7.04		
	10.0	15.0	11.0		
	16.0	24.0	17.6		
磅级(Lb) Pound grade (Class)	150	3.0	2.2	-196~600°C	水、油品、蒸汽等 Water, oil, steam, etc.
	300	7.5	5.5		
	600	15.0	11.0		
	900	22.5	16.5		
	1500	37.5	27.5		
2500	63.0	46.2	46.2		

### ◆ 上密封座设计 Back Seating Design

我公司提供的所有截止阀都有倒密封设计，通常情况下，碳钢截止阀的阀座设计采用分离式倒密封结构，不锈钢截止阀的倒密封是直接加工或者是焊后加工。当阀门在全开位置时，倒密封的密封面非常可靠。虽然按照标准API600中有倒密封，但这不作为在带压情况下更换填料的依据。

All our globe valves have the back seating design. In most cases, the carbon steel globe valve is fitted with a renewable back seat. For stainless steel globe valve, the back seat is machined directly in the bonnet or is machined after welding. When the globe valve is at fully open position, the sealing of the back seat can be very reliable. However, as per the requirement of API 600, it is not advisable to add or change packing by the mean of back seating when the valve is pressure containing.

### ◆ 阀杆螺母 Stem Nut

通常情况下，阀杆螺母材料采用ASTM A439 D2。同时可以根据用户要求采用铜合金等材料，对于大口径的截止阀，滚动轴承，可以有效减小截止阀的开启力矩使阀门可以轻松开关。

Usually, the stem nut is made of ASTM A439 D2. It is also can be made of copper alloy if being requested by the customer, For large sized globe valve, rolling bearing is fitted at the two sides of stem nut in order to minimize the open and close torque of the globe valve.

### ◆ 阀座 Seat

碳钢截止阀阀座通常采用锻钢材料，阀座密封面可根据客户要求喷焊硬质合金，NPS≤10"的截止阀采用分离式螺纹旋入式阀座，如果用户需要焊阀座也可提供；NPS≥12截止阀采用焊阀座结构；不锈钢截止阀的阀座一般采用整体式或者在本体上焊硬质合金后直接加工阀座。如果用户有需求，不锈钢截止阀阀座也可采用分离式螺纹旋入式和焊接阀座结构。

For carbon steel globe valve, the seat is usually forged steel. The sealing surface of the seat is spray welded with hard alloy specified by the customer. Renewable threaded seat is used for NPS≤10globe valves, and welded on seat can be also optional if being requested by the customer. Welded on seat is used for NPS10 carbon steel globe valve. For Stainless steel globe valve, integral seat is usually adopted, or to weld hard alloy directly integrally. Threaded or welded on seat is also optional for stainless steel globe valve if being requested by the customer.

### ◆ 特殊截止阀 Special Shut-off Valve

除通用截止阀外，还可以提供低温截止阀、波纹管截止阀、氧用截止阀和夹套截止阀等等。

In addition to general shut-off valves, cryogenic shut-off valves, bellows shut-off valves, oxygen shut-off valves, jacketed shut-off valves, etc. can also be provided.

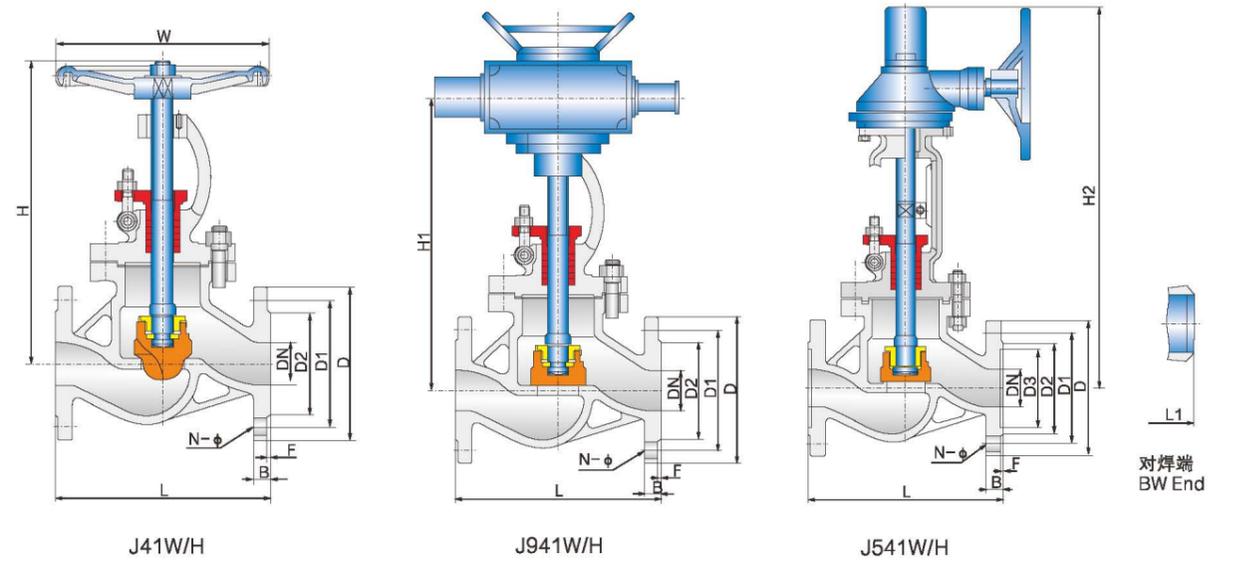
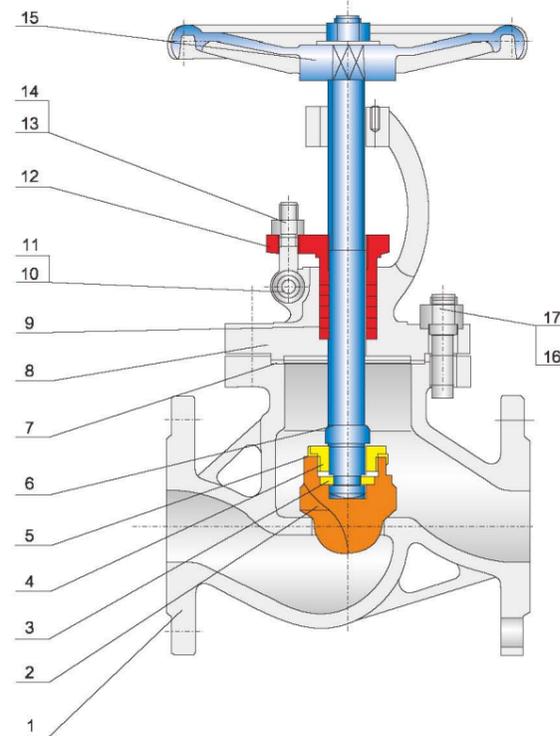
◆ 应用规范 Application Of Norms

- 1、阀门的设计与制造按 GB/T 12235-2007 的规定
  - 2、阀门的结构长度按 GB/T 12221-2005 的规定
  - 3、连接法兰按 79.1(2)-94 的规定
  - 4、阀门的检验与验收按 JB/T 13927 的规定
1. Valve design and manufacture according to GB/T 12235-2007 requirements
  2. Valve structural length according to GB/T 12221-2005 requirements
  3. The connection flange according to 79.1(2)-94 requirements
  4. Valve inspection and acceptance by JB/T 13927 requirements



◆ 主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	ZG0Gr18Ni9	WCB
2	阀瓣 Disc	ZG0Gr18Ni9	2Cr13
3	对开圆环 Ring off	0Gr18Ni9	2Cr13
4	阀瓣螺母 Disc nut	0Gr18Ni9	2Cr13
5	止退垫圈 Only back washer	0Gr18Ni9	45
6	阀杆 Stem	0Gr18Ni9	2Cr13
7	中法兰垫片 The flange gasket	PTFE	304+石墨
8	阀盖 Valve cover	CF8	35
9	填料 Packing	PTFE	柔性石墨 Flexible graphite
10	销轴 Pin	2Cr13	WCB
11	开口销 Cotter pin	1Cr13	35CrMoA
12	填料压盖 Gland	ZG0Gr18Ni9	45
13	活节螺栓 Live bolts	0Gr18Ni9	35CrMoA
14	螺母 Nut	0Gr18Ni9	45
15	手轮 Handwheel	KTH300-06	KTH300-06
16	螺栓 Bolt	0Gr18Ni9	35CrMoA
17	螺母 Nut	0Gr18Ni9	45



◆ 主要连接尺寸 Main Connection Dimensions

PN1.6MPa																	
尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L/L1	mm	130	150	160	180	200	230	290	310	350	400	480	600	650	750	850	950
H	mm	200	243	253	280	312	321	325	355	415	460	510	700	975	1115	1250	1380
W	mm	120	140	160	160	200	220	320	320	380	400	450	500	600	700	800	900

PN2.5MPa																	
尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L/L1	mm	130	150	160	180	200	230	290	310	350	400	480	600	650	750	850	950
H	mm	200	243	253	280	312	321	325	355	415	460	510	700	975	1115	1250	1380
W	mm	120	140	160	160	200	220	320	320	380	400	450	500	600	700	800	900

PN4.0MPa																	
尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L/L1	mm	130	150	160	180	200	230	290	310	350	400	480	600	650	750	850	950
H	mm	200	243	253	280	312	321	325	355	415	460	510	700	975	1115	1250	1380
W	mm	120	140	160	160	200	200	240	240	280	320	360	560	600	700	800	900

PN6.4MPa																
尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150	200	250		
L/L1	mm	170	190	210	230	260	300	340	380	430	500	550	650	775		
H	mm	195	228	250	325	360	410	450	485	537	600	646	730	775		
W	mm	140	160	180	200	240	280	320	360	400	450	485	537	646		

PN10.0MPa																
尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150	200	250		
L/L1	mm	170	190	210	230	260	300	340	380	430	500	550	650	775		
H	mm	195	228	250	325	360	410	450	485	537	600	840	925	1015		
W	mm	100	120	160	200	240	280	320	400	450	450	500	500	500		

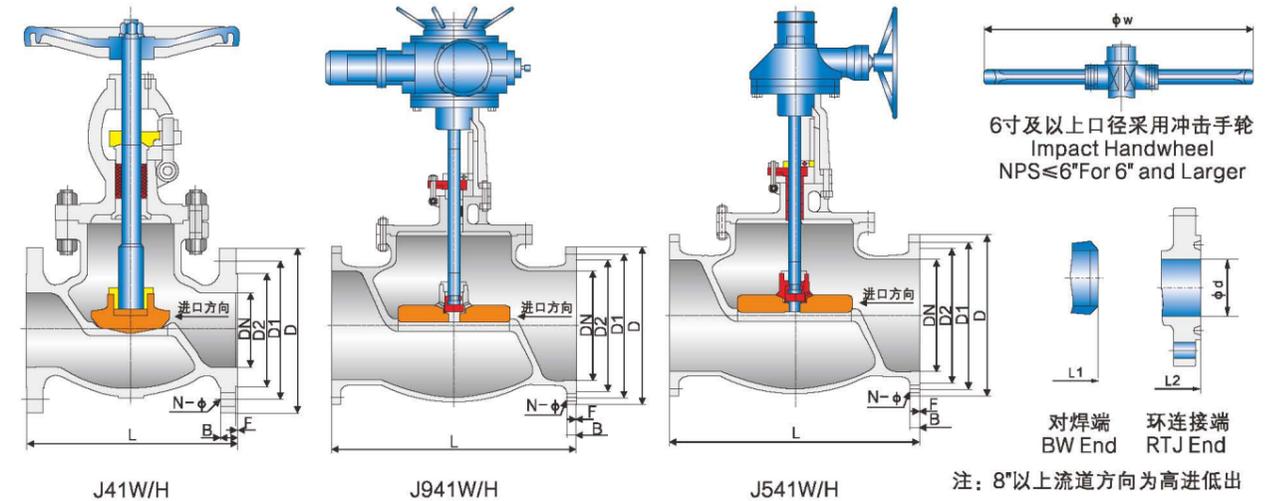
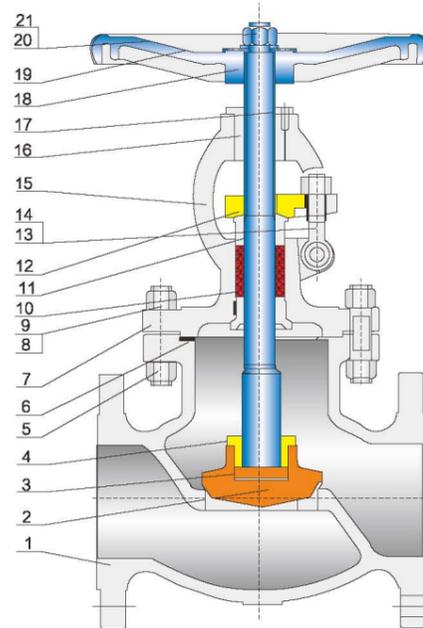
◆应用规范 Application Of Norms

- 1、阀门的设计与制造按BS 1873的规定
- 2、阀门的压力温度基准按ANSI B 16.34的规定
- 3、连接法兰按B 16.5的规定
- 4、阀门的检验与验收按API 598的规定
- 1、 Valve design and manufacture requirements in accordance with BS 1873
- 2、 Valve pressure and temperature basis, by the provisions of ANSI B 16.34
- 3、 The connection flange in accordance with the provisions of B 16.5
- 4、 The Valve according to API 598 inspection and acceptance requirements



◆主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	A351-CF8	A216-WCB
2	阀瓣 Disc	A182-F304	2Cr13
3	阀杆 stem	A182-F304	A182-6a
4	阀瓣盖 Disc cover	A182-F304	2Cr13
5	缠绕垫片 Spiral wound gasket	PTHE	柔性石墨+304
6	上密封座 The seal seat	F304	2Cr13
7	阀盖 Valve cover	A351-CF8	A216-WCB
8	螺栓 Bolt	A193-B8	A193-B7
9	螺母 nut	A194-8	A194-2H
10	填料 Packing	PTFE	柔性石墨
11	填料压套 Press kit packing	CF8	2Cr13
12	填料压板 Packing plate	CF8	A216-WCB
13	螺母 nut	A194-8	A194-2H
14	销 Pin	410	35
15	螺栓 Bolt	A193-B7	A193-B7
16	阀杆螺母 stem nut	ZCuA110Fe3	ZCuA110Fe3
17	螺钉 Screw	410	A105
18	手轮 Hand wheel	QT400	QT400
19	铭牌 Nameplate	L2	L2
20	螺母 nut	B8	A194-2H
21	垫圈 Washer	410	Q235A



◆主要连接尺寸 Main Connection Dimensions

CLASS150Lb															
NPS		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	RF	108	117	127	140	165	203	216	241	292	356	406	495	622	698
	RTJ	119	130	140	152	178	216	229	254	305	369	419	508	635	711
	BW	108	117	127	140	165	203	216	241	292	356	406	495	622	698
d		13	19	25	32	38	51	64	276	102	127	152	203	254	305
H		182	193	217	235	258	330	360	390	445	480	520	600	773	880
H1		-	-	-	-	-	-	-	-	-	-	556	658	805	955
W		100	100	100	135	135	200	250	280	300	350	350	400	450	500
W1		-	-	-	-	-	-	-	-	-	-	310	310	460	460
H.W		3	4	5	8	9	19	27	36	53	75	94	148	242	438
G.O		-	-	-	-	-	-	-	-	-	-	126	180	291	480

美标截止阀  
API Globe Valve



◆主要连接尺寸 Main Connection Dimensions

CLASS300Lb

NPS		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	RF	152	178	203	216	229	267	292	318	356	400	444	559	622	711
	RTJ	164	191	216	229	241	283	308	333	371	416	460	575	638	727
	BW	152	178	203	216	229	267	292	318	356	400	444	559	622	711
d		14	19	25	32	38	51	64	76	102	127	152	203	254	305
H		185	195	220	240	260	385	420	440	515	580	660	900	950	1030
H1		-	-	-	-	-	-	-	-	-	-	690	950	990	1080
W		100	100	135	135	160	200	200	280	350	350	400	550	600	700
W1		-	-	-	-	-	-	-	-	-	-	310	460	460	460
H.W		5	7	10	14	19	25	42	46	74	111	165	275	400	624
G.O		-	-	-	-	-	-	-	-	-	-	195	327	452	725

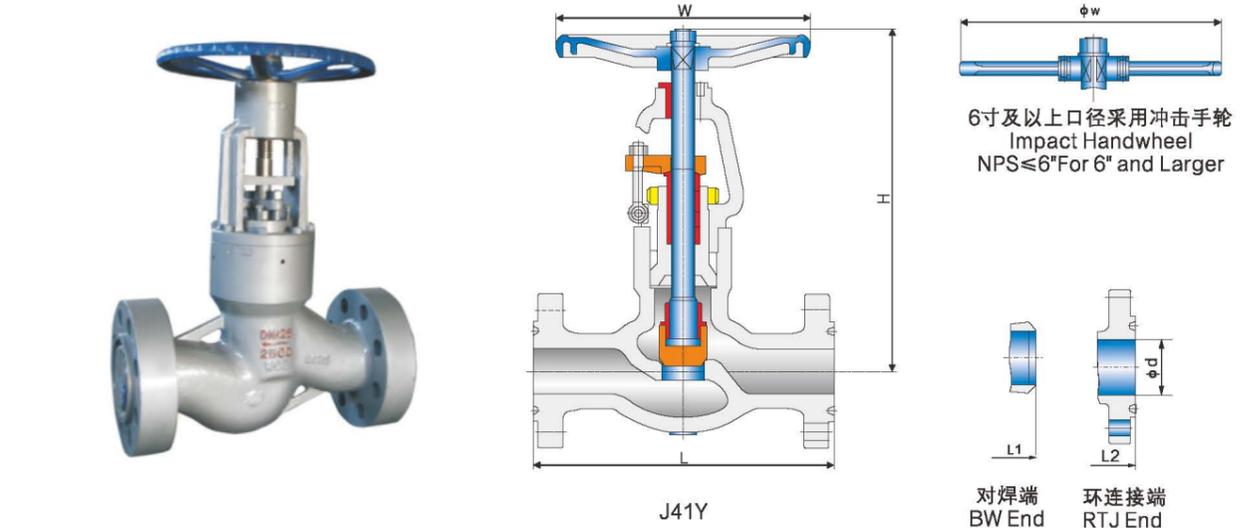
CLASS600Lb

NPS		2	2 1/2	3	4	5	6	8
DN		50	65	80	100	125	150	200
L	RF	292	330	356	432	508	559	660
	RTJ	295	333	359	435	511	562	664
	BW	292	330	356	432	508	559	660
d		51	64	76	102	127	152	200
H		360	410	465	545	625	785	930
H1		-	-	-	575	660	820	960
W		250	280	300	400	500	550	650
W1		-	-	-	310	310	460	460
H.W		32	42	63	107	185	290	540
G.O		-	-	-	138	215	342	645

CLASS900Lb

NPS		2	2 1/2	3	4	5	6
DN		50	65	80	100	125	150
L	RF	368	419	381	457	559	610
	RTJ	371	422	384	460	562	613
	BW	368	419	381	457	559	610
d		51	64	76	102	127	152
H		480	520	564	685	780	950
H1		-	-	630	720	840	1015
W		350	350	400	450	550	650
W1		-	-	310	310	460	460
H.W		55	68	95	160	270	410
G.O		-	-	128	210	325	480

美标自密封截止阀  
API Pressure Sealing Globe Valve



◆主要连接尺寸 Main Connection Dimensions

CLASS900Lb

NPS		3/4	1	1 1/2	2	2 1/2	3	4	5	6
L		229	254	305	368	422	384	460	559	610
H		185	200	250	546	597	711	718	780	950
Do		140	160	190	320	360	440	500	550	650

CLASS1500Lb

NPS		2	2 1/2	3	4	6	8
DN		50	65	80	100	150	200
L1/BW		368	419	470	546	705	832
L/RF		368	419	470	546	705	832
L2/RJ		371	422	473	549	711	841
H		557	557	557	685	925	1100
DO		400	400	400	400	700	700
WH		75	82	95	135	355	680

CLASS2500Lb

NPS		2	2 1/2	3	4	6
DN		50	65	80	100	150
L1/BW		279	330	368	457	610
L/RF		451	508	578	673	914
L2/RJ		454	514	584	682	927
H		595	595	710	820	1260
DO		400	500	600	700	900
WH		115	136	205	275	860

截止阀  
Globe Valve

截止阀  
Globe Valve

# Check Valve

## 止回阀系列



止回阀是指依靠介质本身流动而自动开、闭阀瓣，用来防止介质倒流的阀门，又称逆止阀、单向阀、逆流阀、和背压阀。

止回阀属于一种自动阀门，其主要作用是防止介质倒流、防止泵及驱动电动机反转，以及容器介质的泄放。止回阀还可用于给其中的压力可能升至超过系统压的辅助系统提供补给的管路上。

Check valve refers to rely on the media itself, and automatic opening and closing valve, used to prevent the back flow medium, also known as check valve, one way valve and the back pressure valve.

Check valve belongs to a kind of automatic valve, its main role is to prevent the back flow medium, to prevent the pump and drive motor reversal, and the discharge of the container medium. Check valve can also be used to give the pressure could rise to more than the system pressure of the auxiliary supply system in the pipeline

## 止回阀概述

Check Valves Overview

### 应用规范 Application Standards

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. 设计制造: 铸钢止回阀按照BS 1868、ASME B16.34、API 6D; 锻钢止回阀按照API 602</li> <li>2. 验收和检验: API 598, API 600 or API 6D</li> <li>3. 法兰连接尺寸: ASME B16.5(for NPS≤24) ASME B16.47系列B、API 605 ASME B16.47 A 系列、MSS SP-44(for NPS&gt;24)</li> <li>4. 对焊端: ASME B16.25</li> <li>5. 承插焊端: ASME B 16.11</li> <li>6. 结构长度: ASME B16.10</li> <li>7. 温压等级: ASME B16.34</li> <li>8. 壁厚标准: API 600、BS 1868</li> </ol> | <ol style="list-style-type: none"> <li>1. Design and manufacture: cast steel check valve in accordance with BS 1868, ASME B16.34, API 6D; Forged steel check valve in accordance with API 602</li> <li>2. Acceptance and inspection: API 598, API 600 or API 6D</li> <li>3. Flange connection size: ASME B16.5 (for NPS≤24) ASME B16.47 series B, API 605 ASME B16.47 A series, MSS SP-44(for NPS&gt;24)</li> <li>4. Butt welding end: ASME B16.25</li> <li>5. Socket welding end: ASME B 16.11</li> <li>6. Structure length: ASME B16.10</li> <li>7. Temperature and pressure rating: ASME B16.34</li> <li>8. Wall thickness standard: API 600, BS 1868</li> </ol> |
|--|---|

### 阀盖垫片形式 Body-to-bonnet Joint

Class150~Class300止回阀采用不锈钢石墨缠绕垫片; Class600止回阀采用不锈钢石墨缠绕垫片, 也可采用金属环垫片; Class900止回阀可采用金属环垫片, Class1500~Class2500止回阀采用自压密封金属环。

The return valve adopts stainless steel graphite spiral wound gasket or metal ring gasket; Class900 check valve can use metal ring gasket, Class1500~Class2500 check valve adopts self-pressure sealing metal ring.

### 止回阀结构特点 The Features Of Check Valve

栓接阀盖 旋启式和升降式阀瓣 金属阀座密封面  
Bolted Bonnet; Swing and lift disc; Metallic seating surfaces.

### 阀体和阀盖连接形式 Body And Bonnet Connection

Class150~Class900采用栓接阀盖; Class1500~Class2500采用自压密封式阀盖。

The body and bonnet of Class150~Class900 check valve are usually with studs and nuts. And the body and bonnet of Class1500~Class2500 check valves are usually of pressurized seal design.

### 阀座设计 Seat

碳钢止回阀阀座通常采用锻钢材料, 阀座密封面可根据客户要求喷焊硬质合金, NPS≤10"的止回阀采用分离式螺纹旋入式阀座, 如果用户需要焊阀座结构也可提供; NPS≥12"止回阀采用焊阀座结构; 不锈钢止回阀的阀座一般采用整体式或者在本体上焊硬质合金直接加工阀座。如果用户有需求, 不锈钢止回阀阀座也可采用分离式螺纹旋入式和焊接阀座结构。

For carbon steel check valve, the seat is usually forged steel. The sealing surface of the seat is spray welded with hard alloy Specified by the customer. Renewable threaded seat is used for NPS≤ 10 check valves, and welded on sea tcan be also optional if being requested by the customer. Welded on seat is used for NPS≥ 12 carbon steel gate valves, For stainless steel check Valve, integral seat is usually adopted, or to weld hard alloy directly integrally. Threaded or welded on seat is also optional for stainless steel check valve if being requested by the customer.

### 主要性能规范 Main performance specification

设计标准 Design Standard	BS 1868							
压力温度等级 Pressure-Temperature Rating	ASME B16.34							
结构长度 Face-Face	ASME B16.10							
法兰型式尺寸 Flange Ends	ASME B16.5、ASME B16.47							
对焊端连接 Buttwelding Ends	ASME B16.25							
检验与试验 Inspection & Test	API 598							
公称压力 Norminal Pressure	CL 150	CL 300	CL 400	CL 600	CL 900	CL 1500		
试验压力(MPa) Test Pressure	壳体试验 Shell Test		2.93	7.58	10.0	15.0	22.4	37.5
	高压密封 High Pressure Seal Test		2.07	5.52	7.31	11.03	16.45	27.5
	低压密封 Low Pressure Seal Test		0.6	0.6	0.6	0.6	0.6	0.6
适用温度 Applicable Temperature	-196℃~550℃(不同的工况温度选用不同的材质) Different raw material for different work temperature							
适用介质 Applicable Medium	水、油、气及各类腐蚀性介质(不同的介质选用不同的材质) Water, oil, gas and other causticity medium(Different raw material for different medium)							

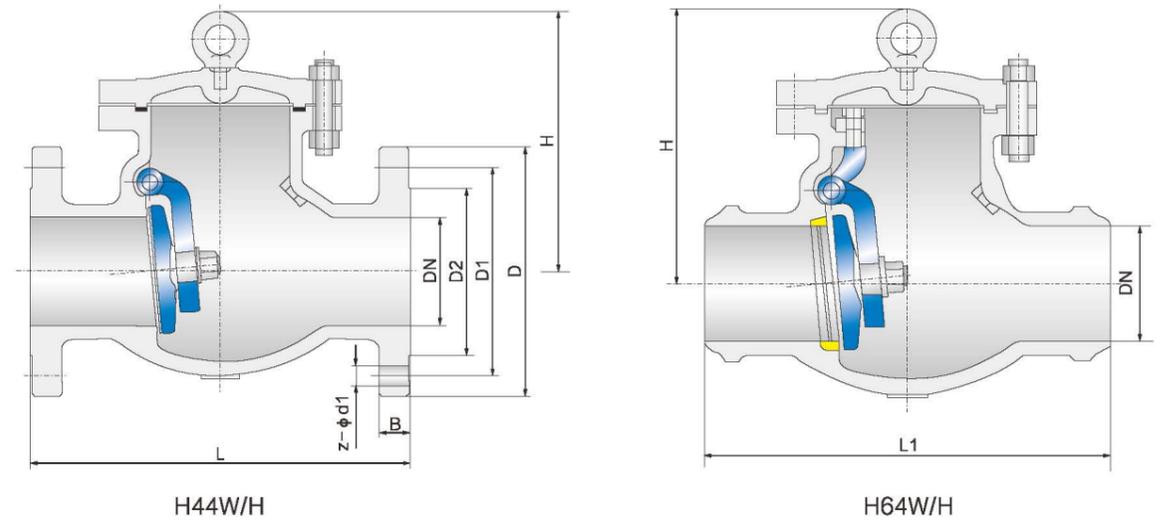
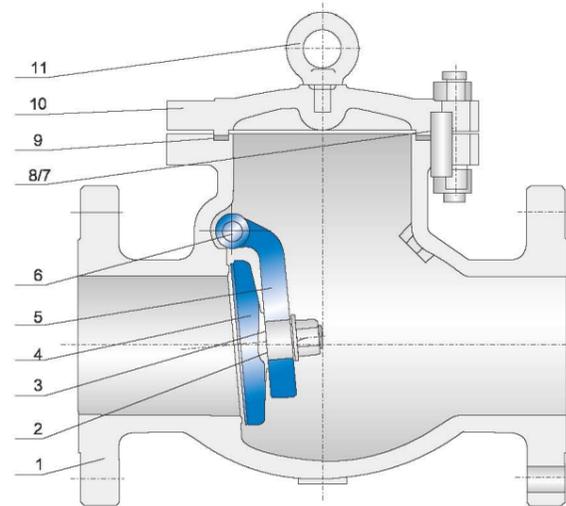
应用规范 Application Of Norms

1. 阀门的设计与制造按GB/T 12236-2007的规定
  2. 阀门的结构长度按GB/T 12221-2005的规定
  3. 连接法兰按GB/T 9113的规定
  4. 阀门的检验与验收按JB/T 9092-1999的规定
1. Valve design and manufacture according to GB/T 12236-2007 requirements
  2. Valve structural length according to GB/T 12221-2005 requirements
  3. The connection flange according to GB/T 9113 requirements
  4. Valves inspection and acceptance by JB/T 9092-1999 requirements



主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	ZG0Gr18Ni9	WCB
2	阀瓣 Disc	ZG0Gr18Ni9	WCB+STL
3	螺母 Nut	0Gr18Ni9	35
4	垫圈 Washer	0Gr18Ni9	2Cr13
5	摇臂 Rocker	ZG0Gr18Ni9	WCB
6	销 Pin	0Gr18Ni9	2Cr13
7	螺柱 Stud	0Gr18Ni9	35CrMo
8	螺母 Nut	0Gr18Ni9	35
9	垫片 Gasket	柔性石墨+304	柔性石墨+304
10	阀盖 Valve cover	WCB	WCB
11	吊环 Rings	35	35



主要连接尺寸 Main Connection Dimensions

PN1.6-4.0MPa

尺寸 Dimension	DN	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
L/L1	mm	160	180	200	230	290	310	350	400	480	550	650	750	850	950	1150
H	mm	-	-	150	160	175	185	220	248	276	350	410	430	518	560	618

PN6.4MPa

尺寸 Dimension	DN	50	65	80	100	125	150	200	250	300	350	400	500
L/L1	mm	300	340	380	430	500	550	650	775	900	1025	1150	1400
H	mm	192	207	207	235	265	297	357	405	465	514	568	620

PN10.0MPa

尺寸 Dimension	DN	50	65	80	100	125	150	200	250	300
L/L1	mm	300	340	380	430	500	550	650	775	900
H	mm	210	227	235	274	307	347	402	432	484

PN16.0MPa

尺寸 Dimension	DN	50	65	80	100	125	150	200
L/L1	mm	300	340	380	430	500	550	650
H	mm	210	227	235	274	307	340	374

## 国标升降式止回阀 GB Lift-return Check Valve

Utmost®  
品质与艺术完美结合

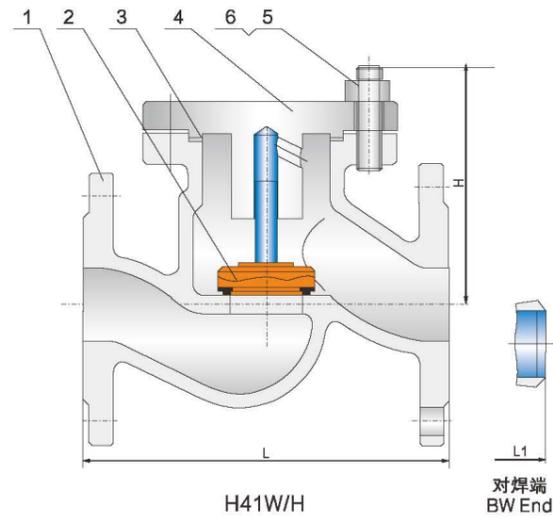
### 应用规范 Application Of Norms

1. 阀门的设计与制造按GB/T 12235-2007的规定
2. 阀门的结构长度按GB/T 12221-2005的规定
3. 连接法兰按GB/T 9113的规定
4. 阀门的检验与验收按GB/T 13927的规定
1. Valve design and manufacture according to GB/T 12235-2007 requirements
2. Valve structural length according to GB/T 12221-2005 requirements
3. The connection flange according to GB/T 9113 requirements
4. Valves inspection and acceptance by GB/T 13927 requirements



### 主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	CF8	WCB
2	阀瓣 Disc	S304	2Cr13
3	密封垫 Gasket	PTFE	304+石墨
4	阀盖 Valve cover	CF8	WCB
5	螺柱 Stud	0Gr18Ni9	35CrMoA
6	螺母 Nut	0Gr18Ni9	45



### 主要连接尺寸 Main Connection Dimensions

PN1.6-4.0MPa

尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L/L1	mm	130	150	160	180	200	230	290	310	350	400	480	600	730	850
H	mm	77	77	80	85	95	105	120	130	140	155	180	215	260	315

PN6.4MPa

尺寸 Dimension	DN	20	25	32	40	50	65	80	100
L/L1	mm	190	210	230	260	300	340	380	430
H	mm	110	125	152	168	170	188	205	230

## 对夹蝶形旋启式止回阀 Wafer Butterfly Swing Check Valve

Utmost®  
品质与艺术完美结合

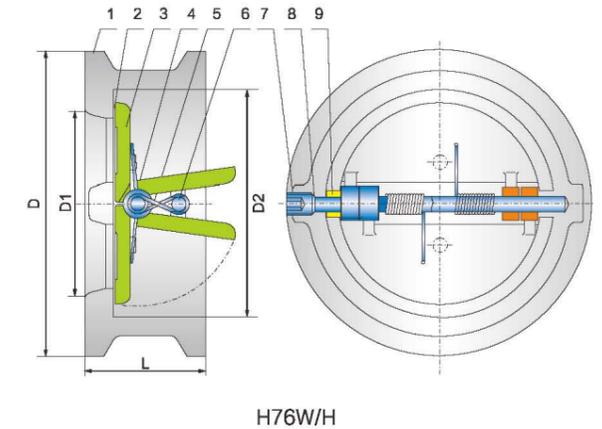
### 应用规范 Application Of Norms

1. 设计标准:GB/T 12224 API594
2. 结构长度:GB/T 15188.2 ASME16.10
3. 连接法兰:JB/T 79、GB/T9113、HG20592 ASME16.5
4. 试验和检验:JB/T9092 API598
- 1.Design standard: GB/T 12224 API594
- 2.Face to face: GB/T 15188.2 ASME16.10
- 3.Flanged ends: JB/T 79、GB/T9113、HG20592 ASME16.5
- 4.Test & inspection: JB/T9092 API598



### 主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	CF8	WCB
2	阀座 Seat	CF8+STL	WCB+STL
3	阀瓣 Disc	CF8+STL	WCB+STL
4	铰链销 Hinge pin	0Cr18Ni9	2Cr13
5	填料 Packing	Inconel X-750	Inconel X-750
6	停止销 Stop pin	304	2Cr13
7	螺钉 Screw	0Cr18Ni9	35CrMoA
8	垫片 Gasket	PTFE	PTFE
9	引导衬套 Guide bushing	0Cr18Ni9	2Cr13



### 主要连接尺寸 Main Connection Dimensions

PN1.6MPa

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800
L	60	67	73	73	86	98	127	146	181	184	191	203	219	222	305	305
D	108	128	142	162	192	218	273	329	384	444	496	556	618	732	802	912
D1	51	65	80	102	127	152	203	254	305	350	400	450	500	600	965	796
D2	56	73	88	108	132	160	210	266	310	355	405	455	505	605	700	800

PN2.5MPa

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800
L	60	67	73	73	86	98	127	146	181	184	191	203	219	222	305	305
D	108	128	142	168	194	224	284	341	401	458	515	565	622	732	831	942
D1	51	65	80	102	127	152	203	254	305	350	400	450	500	600	965	796
D2	56	73	88	108	132	160	210	266	310	355	405	455	505	605	700	800

## 立式止回阀 Vertical Check Valve

Utmost®  
品质与艺术完美结合

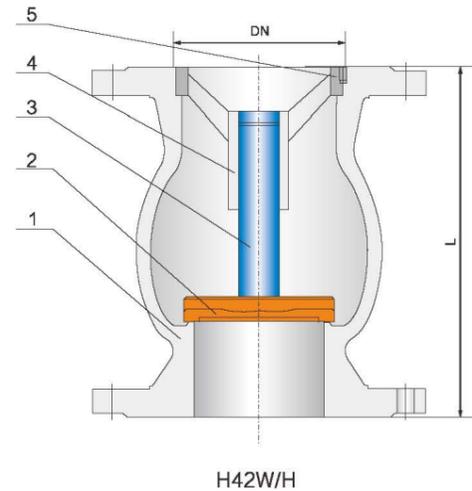
### 应用规范 Application Of Norms

1. 阀门的设计与制造按GB/T 12235-2007的规定
  2. 阀门的结构长度按GB/T 12221-2005的规定
  3. 连接法兰按GB/T 9113的规定
  4. 阀门的检验与验收按JB/T 9092-1999的规定
1. Valve design and manufacture according to GB/T 12235 -2007 requirements
  2. Valve structural length according to GB/T 12221-2005 requirements
  3. The connection flange according to GB/T 9113 requirements
  4. Valves inspection and acceptance by JB/T 9092-1999 requirements



### 主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	CF8	WCB
2	阀瓣 Disc	304	2Cr13
3	阀杆 Stem	F304	2Cr13
4	定位架 Positioning frame	CF8	WCB
5	定位螺钉 Screws	304	25



### 主要连接尺寸 Main Connection Dimensions

PN1.6-4.0MPa

DN	15	20	25	32	40	50	65	80	100	125	150	200
L	85	95	105	150	160	170	180	200	210	275	300	380

PN6.4-10.0MPa

DN	15	20	25	32	40	50	65	80	100	125	150	200
L	90	100	110	160	170	180	190	220	260	300	340	420

Utmost®  
品质与艺术完美结合

# Ball Valve

## 球阀系列



球阀是由旋塞阀演变而来的，它的启闭件作为一个球体，利用球体绕阀杆的轴线旋转90度实现开启和关闭的目的。球阀在管道上主要用于切断、分配和改变介质流动方向，球阀不仅结构简单、密封性能好，而且在一定的公称通径范围内体积较小、重量轻、材料耗用少、安装尺寸小，并且驱动力矩小，操作简便、易实现快速启闭，是近十几年来发展最快的阀门品种之一。

Ball valve evolved by the plug valve, the opening and closing as a sphere, using the ball around the stem of the axis of rotation, 90 the degree of the realization of the aim of opening and closing. Ball valve in the line is mainly used for cutting, distribution, and change the flow direction of medium, the ball valve not only simple structure, good sealing performance, and within a certain range of nominal pass after small volume, light weight, material consumption less, small installation size, and drive torque is small, easy to operate, easy to realize rapid opening and closing, is the fastest growing in last decade one of the varieties of the valve.

## 浮动球阀概述 Floating Ball Valve Overview

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### ◆ 结构特点 Structural Features

浮动球阀系我公司在消化吸收国内外先进技术的基础上生产出的优良产品，它具有更新的设计特点，能满足一般工业标准的安全和方便需要。

Float ball valves are superior products developed upon the ad-vanced technology home and abroad. Provided with updated design ideas, they meet the requirements on safety and convenience in general industrial standards.

### ◆ 手动浮动球阀的开、关指示 Switch Indication Of Hand Operated Float Ball Valve

球体、阀杆、手柄是阀门的运动部件，是一个装配单元，阀杆头部采用扁方结构，能从手柄所处位置很容易辨出阀门是处于开启位置或关闭位置。当手柄或阀杆扁方与管道轴线平行时，阀门处于开启位置；当手柄或阀杆扁方管道轴线垂直时，阀门处于关闭位置。

As the moving parts of valve, ball, valve, stem and handle are an assembly unit. The head of valve stem is shaped a diploid, thus to easily distinguish whether valve is in th 'ON' position or 'OFF' position from handle position. When handle or stem diploid is in parallel with the pipe axis, valve is in 'ON' position; when handle or stem diploid is vertical to the pipe axis, valve is in 'OFF' position.

### ◆ 阀门锁定装置 Valve Locking Device

为防止误操作阀门，在阀门的全开和全关位置可用锁锁定阀门，特别是安装在野外的阀门或当工艺流程不允许开或关阀门时，为防止其他人员错误操作阀门，将阀门位置锁定是很重要的。因此根据用户的需要在阀门设计时加装带锁孔定位片可满足用户的工艺要求。

To prevent misoperation, the fully opened or closed position of valve can be locked up, especially when valves are mounted outdoors or when valve are not allowed to be opened or closed by technical process. To prevent misoperation by other persons, it seems very important to have valve position locked up. Thereby, lockhole locating tab is designed if requested by users to meet the technological requirement of users.

### ◆ 中部法兰无泄漏结构 Middle Flange Leak-tight Structure

阀体与左体的连接部位是靠垫片密封，为防止由于火灾、高温或震动等因素引起的该处密封泄漏，特设计为阀体与左体金属-金属接触，形成止口法兰，保证无外漏。

The connection between valve body and the left body is sealed by gasket. To prevent seal leakage resulted from fire, high temperature or vibration etc. the valve body and the left body is designed metal-to-metal contacted, thus to form up a seal flange to ensure leak-tightness.

### ◆ 阀杆防飞出结构 Anti-blow Out Structure Of Valve Stem

当介质通过阀门时，阀体中腔的压力可能将阀杆推出(或在维修阀门时，如果中腔有压力，拆卸阀门时阀杆、介质容易飞出，误伤人员)。为防止这种情况发生，在阀杆下部设置一凸台结构。这样，即使火灾时，填料、止推轴承被烧损或其他原因引起填料等损坏，阀体内的介质压力将使阀杆凸台与阀体上密封面紧密接触，防止介质大量从损坏的填料部位出泄漏。

When medium passes through the valve, the pressure in valve body may possibly push the stem out, or when the valve is repair, if there is pressure in the middle cavity, the stem or medium seems to easily blow out upon disassembling the valve, which can cause injuries to human beings. To prevent these possibilities, a dummy club is placed at the lower part of the stem, in this way, even if there is fire, packing and thrust bearing are burnt or packing is damaged due to other causes, the pressure of medium in valve body will make the dummy club of valve stem in close contact with the upper seal face of valve body, thus to prevent medium leaking out from the damaged packing position.

### ◆ 防静电装置 Antistatic Device

当操作阀门时，由于球体和聚四氟乙烯等非金属材料阀座之间的摩擦，会产生静电电荷并聚集在球体。为防止产生静电火花，特在阀门上设置防静电装置，将聚集在球体上的电荷通过球体与阀杆、阀杆与阀体之间的静电通道导出。

When operating the valve, the friction between the ball and the nonmetal seat like PTFE etc. will produce electrostatic charge that can be accumulated on the ball. To prevent static spark, an antistatic device is placed on the valve to derive the electric charge accumulated on the ball from the static channel between the ball and the stem, or between the stem and valve body.

### ◆ 防火结构 Fire Protection Structure

当发生火灾时，填料、阀座等非金属材料(非防火材料)将被烧坏，大量泄漏的介质可能会更加促使火势蔓延、扩大，这是阀门的防火结构可阻挡介质大量泄漏。如图，一旦阀座被烧损，球体将直接与阀体上的金属面接触，从而阻止介质大量从烧损的阀座出泄漏。防火防静电的结构设计应符合API607、GB/T6899和BS6755第二部分的要求。

In case of fire, the nonmetal packing or seat (non-fireproof material) will be burnt, the considerable medium leakage may possibly cause fire spread. Here, the fire protection structure functions to prevent medium from mass leakage. As shown in the figure, once the seat is burnt, the ball will directly contact the metal face on valve body, thus to prevent medium leaking out from the burnt seat. The design of fire protection and antistatic structure shall conform to the requirements of API607, GB/T6899 and the second part of BS 6755.

## 浮动球阀概述 Floating Ball Valve Overview

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品质与艺术完美结合

### ◆ 可靠的阀座密封结构 Reliable Seating Structure

公司多年来的球阀制造经验与国际先进技术的结合而设计的双线密封结构，可自然泄压阀座，能保证高、低压和真空状态下的可靠密封。当介质压力运行在低压区时，阀座密封圈与球体接触面积较小，故有较大的密封比压，确保阀座可靠密封，当介质压力运行在较高位时，阀座密封圈与球体的接触面积增大，故阀座密封圈能承受较大的介质推力而不会损坏。

对于工作压力很低的球阀，考虑到介质压力不能确保阀座的可靠密封，而预紧力长期使用后会衰退，故对于低压、超低压或真空工况用球阀，采用球阀，采用板簧加载的阀座密封结构，确保球阀长期可靠的密封。

中、高温球阀的阀座密封结构，采用对位聚苯作为密封圈可用于300°C的温度，而采用金属密封耐高温复合材料结构设计的球阀可用于更高的温度。这种结构具有单向密封功能。

The two-way sealing structure embodying the years of our manufacturing experience in ball valves and the internationally advanced technology can release the pressure at valve seat and ensure reliable seal under high or low pressure and vacuum state. When the pressure of medium is low, the contact area between valve seat insert and ball is relatively small, thus providing high sealing load to ensure reliable seat seal. When the pressure of medium is high, the contact area between valve seat insert and ball is relatively large, so that the valve seat insert can endure the considerable medium thrust and not be damaged.

Regarding ball valves of very low working pressure, in consideration that the pressure of medium cannot guarantee the reliable seal of valve seat, and that the pretightening force will decrease after a longtime of service, so we apply leaf spring loaded seating structure for valves working under low and ultralow pressure or under vacuum conditions, thus to ensure persistent and reliable seal.

The seating structure of medium and high temperature ball valves use PPL for seal ring that can serve a temperature of 300°C. Ball valves with metal seal and high temperature resisting materials can be used to deal with even higher temperature. This structure takes the function of one-way seal.

### ◆ 自动泄压结构 Self-relieving Structure

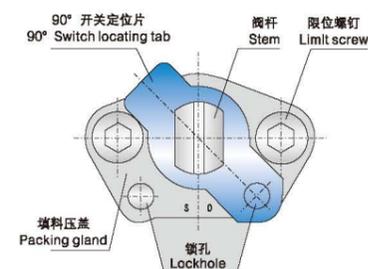
当滞留在阀门中腔的介质由于管道系统压力或介质温度等因素引起的变化，从而出现中腔压力异常升高时，中腔介质能依靠本身的推力推动阀座而自动泄压，从而确保阀门的安全。

In case of abnormal rise of pressure in the middle cavity of valve resulted from the medium left there suffered from changes of pipeline pressure or medium temperature, automatic pressure relief of valve seat can be effected under the pressure of the medium itself, thus to guarantee the safety of valve.

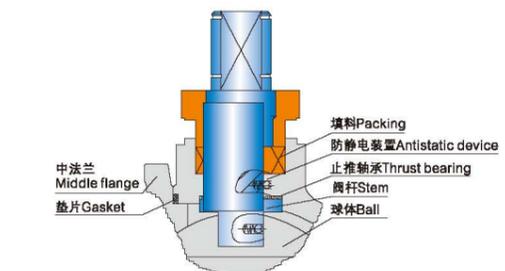
### ◆ 全径和缩径 Full And Reduced Bore

我公司球阀有全径和缩径两个系列，以满足用户的不同需要。全通径球阀的通道内径与管线内径一致，流体阻力最小，并便于管道清扫。而缩径系列球阀的重量只有相同口径球阀的70%左右，能有效降低成本和价格，而其流体阻力系数只有相同口径截止阀的1/7左右，故缩径球阀在国外得到广泛的使用。

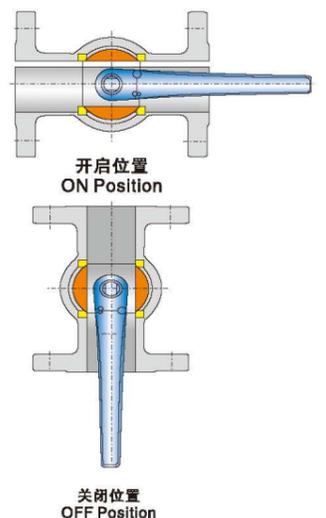
We have ball valves of full and reduced bore to meet users' different needs. Full-bore ball valves have the same inside diameter as that of pipeline, with the lowest fluid resistance for the convenience of cleaning the full-bore ball valve with the same caliber, a saver of cost and price, and its fluid resistance coefficient is only 1/7 of that of the globe valve with the same caliber, so that reduced-bore valves are widely used abroad.



90° 开关带锁孔定位片  
90° Switch with lockhole locating tab



阀杆防飞出结构 阀杆防静电装置  
中法兰无外漏结构  
Stem anti-blowout structure Stem antistatic device  
Middle flange leak-tight structure



合理的开关设计  
Reasonable switch design

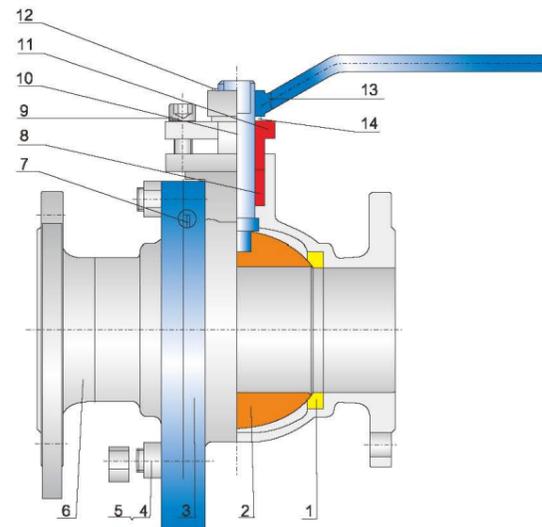
应用规范 Application Of Norms

1. 设计与制造标准按 GB12237 标准
2. 结构长度标准按 GB12221 标准
3. 连接法兰标准按 JB79 标准
4. 试验与检验标准按 GB 13927 标准
5. 主要材料标准按 GB 1220; GB12229 标准
6. 中法兰螺栓标准按 GB901-88 标准
1. The design and manufacture of standard criteria according to GB12237
2. The structure according to GB12221 standard length standard
3. The connection flange standard criteria by JB79
4. Test and test according to GB 13927 Standard
5. The main material standard according to GB 1220; GB 12229 Standard
6. The flange bolts standard criteria according to GB901-88



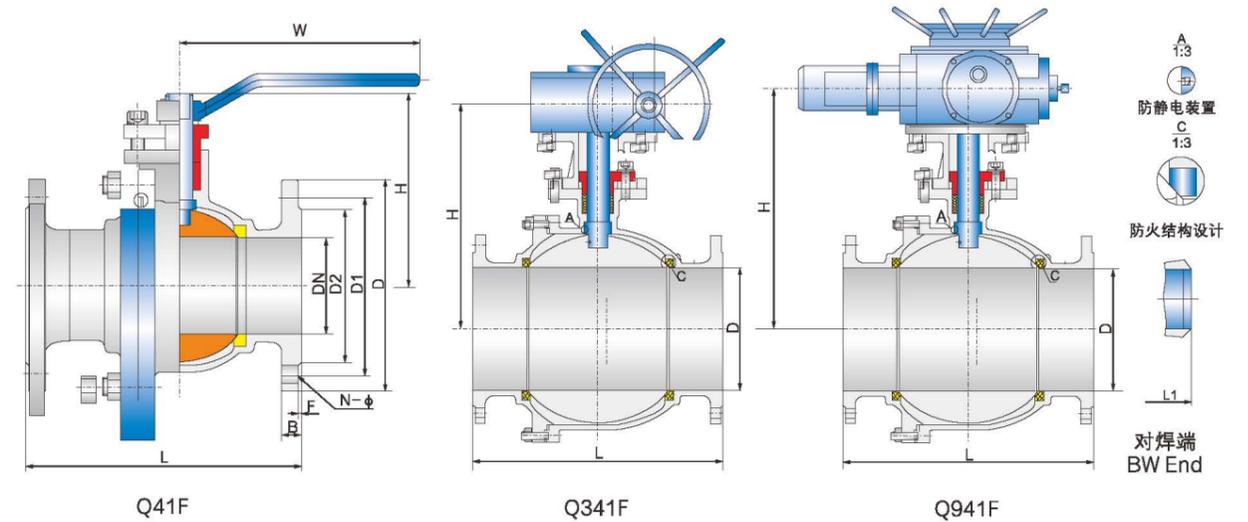
主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	密封圈 Ring	PTFE	F4
2	球体 Ball	0Cr18Ni9	2Cr13
3	阀体 Body	ZG0Cr18Ni9	WCB
4	螺母 Nut M16	0Cr18Ni9	45
5	双头螺柱 Stud	0Cr18Ni9	35CrMoA
6	阀盖 Valve cover	ZG0Cr18Ni9	WCB
7	中道垫片 Mean Gasket	PTFE	柔性石墨
8	填料 Packing	PTFE	PTFE
9	内六角螺钉 Hexagon screw	0Cr18Ni9	45
10	阀杆 Stem	0Cr18Ni9	2Cr13
11	填料压盖 Gland	ZG0Cr18Ni9	WCB
12	挡圈 Ring	65Mn	65Mn
13	手柄 Handle	玛钢	玛钢
14	定位片 Spacer	Q235	Q235



主要性能规范 Main performance specification

性能规范 Performance Specification		公称压力 Nominal Pressure(MPa)				
		1.6	2.5	4.0	6.4	10.0
试验压力 Testing Pressure (MPa)	强度试验 Shell test	2.4	3.75	6.0	9.6	15.0
	密封试验 Seal test	1.76	2.75	4.4	7.04	11.0
	气压试验 Air test	0.6MPa				
适用温度 Applicable Temperature	-196℃~550℃(注:不同工况温度,选用不同的材质) Different materials for different Operating temperature					
适用介质 Applicable Medium	普通型 Ordinary type	水、蒸汽、石油、液化气、天然气等 Water, Steam, Petroleum, LPG Natural gas etc.				
	抗硫型 Antisulphur type	含H <sub>2</sub> S、CO天然气、石油等 Natural gas containing H <sub>2</sub> S and CO, petroleum, etc				



主要连接尺寸 Main Connection Dimensions

公称通径 DN	15	20	25	32	40	50	65	80	100	125	150	200
L/L1	130	140	150	165	180	200	220	250	280	320	360	400
H	59	63	100	105	116	145	150	168	188	235	280	342
W	130	130	160	180	230	230	400	400	650	1050	1050	1410

PN1.6MPa

公称通径 DN	15	20	25	32	40	50	65	80	100	125	150	200
L/L1	130	140	150	165	180	200	220	250	280	320	360	400
H	59	63	100	105	116	145	150	168	188	235	280	345
W	130	130	160	230	230	400	400	700	1100	1100	1500	1500

PN2.5MPa

公称通径 DN	15	20	25	32	40	50	65	80	100	125	150	200
L/L1	130	140	150	180	200	220	250	280	320	400	400	550
H	59	63	75	85	95	107	142	152	178	252	272	342
W	130	130	160	230	230	400	400	700	1100	1100	1500	1500

PN4.0MPa

公称通径 DN	15	20	25	32	40	50	65	80	100	125	150
L/L1	140	190	216	229	241	292	330	356	432	508	559
H	59	63	75	97	107	142	152	178	252	272	305
W	130	130	160	230	230	400	400	700	1000	1100	1500

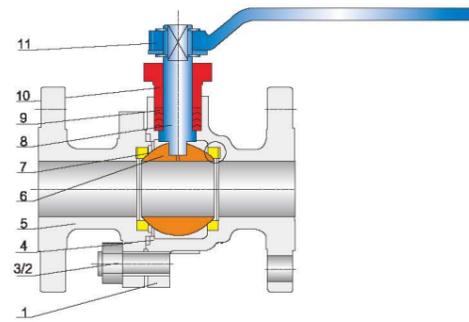
PN6.4MPa

公称通径 DN	15	20	25	32	40	50	65	80	100	125	150
L/L1	140	190	216	229	241	292	330	356	432	508	559
H	59	63	75	97	107	142	152	178	252	272	305
W	130	130	160	230	230	400	400	700	1000	1100	1500

PN10.0MPa

◆应用规范 Application Of Norms

- 1、法兰尺寸符合ANSI B 16.5标准
- 2、结构长度符合ANSI B 16.10标准
- 3、设计与制造符合API6D标准
- 4、阀门的检查与试验按API598标准
- 1、 Flange dimensions to ANSI B 16.5
- 2、 Face to face dimensions to ANSI B 16.10
- 3、 Design and Manufacture in accordance with API 6D
- 4、 Valve tested to API 598

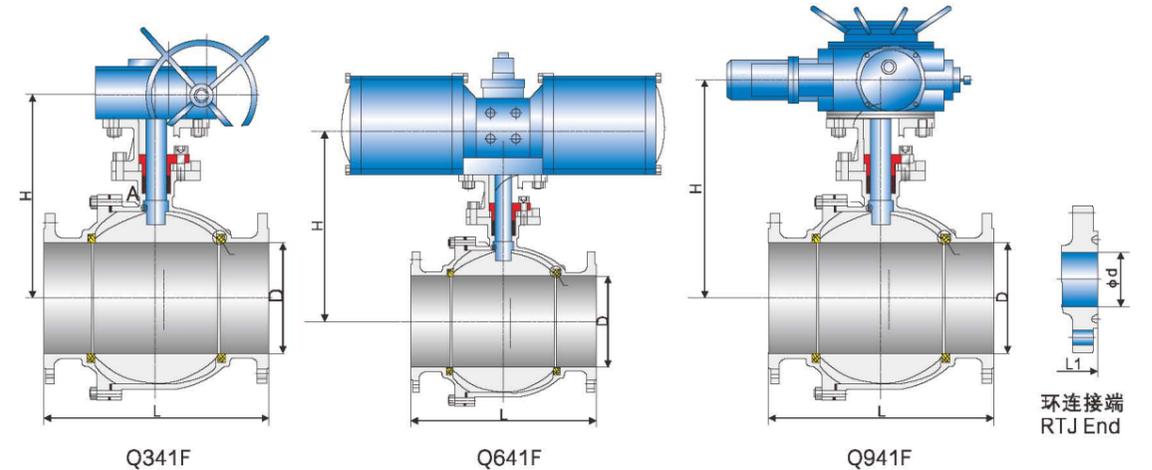


◆主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	A351 CF8	A216 WCB
2	双头螺栓 Stud	A193 B8	A193 B7
3	螺母 nut	A194 2H	A194 2H
4	垫片 Gasket	PTFE	PTFE
5	阀盖 Valve cover	A351 CF8	A216 WCB
6	球体 Ball	A182 F304	A182 F304
7	阀座 Seat	PTFE	PTFE
8	阀杆 Stem	A182 F6	A182 F6a
9	填料 packing	PTFE	PTFE
10	填料压盖 Gland	A182 F304	WCB
11	手柄 Handle	A351 CF8	A216 WCB

◆主要性能规范 Main performance specification

性能规范 Performance Specification		压力等级 Pressure Grade (class)			
		150	300	400	600
试验压力 Testing Pressure (Mpa)	强度试验 Shell test	2.93	7.58	10.0	15.0
	密封试验 Seal test	2.07	5.52	7.31	11.03
	气压试验 Air test	0.6Mpa			
适用温度 Applicable Temperature		-196℃~550℃ (注: 不同工况温度, 选用不同的材质) Different materials for different Operating temperature			
适用介质 Applicable Medium	普通型 Ordinary type	水、蒸汽、石油、液化气、天然气等 Water, Steam, Petroleum, LPG, Natural gas etc.			
	抗硫型 Antisulphur type	含H <sub>2</sub> S, CO天然气, 石油等 Natural gas containing H <sub>2</sub> S and CO, petroleum, ect			



◆主要连接尺寸 Main Connection Dimensions

CLASS150Lb		DN	15	20	25	32	40	50	65	80	100	125	150	200	250
		NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10
L	RF		108	117	127	140	165	178	190	203	229	356	394	457	533
	RTJ		119	130	140	153	178	191	203	216	242	369	407	470	546
d			14	19	25	32	38	51	64	76	102	127	152	203	254
	手动 Hand wheel		140	140	150	180	200	250	300	350	500	800	800	1000	-
W	蜗轮 Gear box		-	-	-	-	-	-	-	305	305	305	305	400	140
	手动 Hand wheel		85	90	99	105	126	140	165	178	230	280	310	350	-
H	蜗轮 Gear box		-	-	-	-	-	-	-	380	405	460	550	706	-
	手动 Hand wheel		3	4	5	7	8	12	18	24	38	60	82	145	-
重量 Weight(kg)	蜗轮 Gear box		-	-	-	-	-	-	-	53	79	102	185	280	-

CLASS300Lb		DN	15	20	25	32	40	50	65	80	100	125	150	200
		NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
L	RF		140	152	165	178	190	216	241	283	305	381	403	502
	RTJ		151	165	178	191	203	232	257	299	321	397	419	518
d			14	19	25	32	38	51	64	76	102	127	152	203
	手动 Hand wheel		140	140	150	180	200	250	300	350	500	800	800	1000
W	蜗轮 Gear box		140	150	180	200	250	300	350	500	800	800	1000	-
	手动 Hand wheel		85	90	99	105	126	142	165	178	230	280	310	350
H	蜗轮 Gear box		85	90	99	105	126	142	165	178	230	280	310	350
	手动 Hand wheel		3	5	6	8	11	16	24	34	56	86	125	222
重量 Weight(kg)	蜗轮 Gear box		-	-	-	-	-	-	-	52	76	124	163	267

CLASS600Lb		DN	15	20	25	32	40	50	65	80	100
		NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L	RF		165	190	216	229	241	292	330	356	432
	RTJ		164	190	216	229	241	295	333	359	435
d			14	19	25	32	38	51	64	76	102
	手动 Hand wheel		140	140	200	200	250	300	350	500	650
W	蜗轮 Gear box		-	-	-	-	-	-	305	305	-
	手动 Hand wheel		79	83	114	120	125	156	172	220	250
H	蜗轮 Gear box		-	-	-	-	-	-	-	370	400
	手动 Hand wheel		5	7	9	13	17	25	42	56	85
重量 Weight(kg)	蜗轮 Gear box		-	-	-	-	-	-	-	76	123

## 固定球阀概述

Trunnion Mounted Ball Valve Overview

Utmost®  
品质与艺术完美结合

### ◆ 自动泄压结构 Self-relieving Structure

当中腔压力出现异常升高现象时，单密封结构的球阀具有自动泄压机能，而双密封结构的球阀则由阀体上的附加泄压装置进行泄压。

In case of abnormal rise of pressure at middle cavity, ball valve of single seal structure is provided with self-relieving function, while ball valve of dual seal structure uses the auxiliary pressure relief device on valve body to carry out pressure relief.

### ◆ 密封的紧急救护 Emergency Seal System

阀门设计有辅助的阀座紧急密封系统，如图所示。一旦软密封受损，或出现紧急情况下而不能密封时，通过向辅助密封系统注射相应的密封剂即可进行紧急密封。紧急密封装置在必要时也可用来对阀座区域进行冲洗润滑，以保持其清洁。同样阀杆也可设计有辅助的紧急密封系统。

The valve is designed with an auxiliary seating emergency seal system, as shown in the figure. In case of soft seal damaged, or failure of seal in an emergency circumstances, emergency seal may be effected by injecting in sealant through auxiliary sealing system if needed, emergency seal assembly can be used to rinse and lubricate the seating area. Plus, valve stem can also be designed with an auxiliary emergency sealing system.

### ◆ 锁定装置 Locking Device

在手动球阀的全开、全闭两点位置上设计可上锁的结构，这样，可防止误操作以及不可预知的线路振动而产生的不应有的开关现象，特别是在可燃性介质的石油类和化学药品的生产线，以及阀门在室外配管时，这种设计体现出的优点和实际效果特别好。

To prevent misoperation and the unexpected open or close caused by the unpredicted circuit vibration, a locking device is designed at the fully opened and closed positions of hand operated ball valve. This design is proven to be especially good and effective in the production line of inflammable mediums of petroleum and chemicals, or when valves are mounted outdoors.

### ◆ 防火结构 Fire Safe Design

根据工况及用户的需要，球阀可设计为防火结构。球阀的耐火设计执行API607及GB/T6899等标准的规定，一旦发生火灾而使软密封圈烧损时，球阀的防火结构可阻止介质的大量泄漏，防止火灾的进一步扩大。

The ball valve can be fire safe design according to working circumstances and customers' needs. The fireproofing design of ball valve is to the standards of API 607 and GB/T6899. In case of soft seal ring burnt in fire, the fire protection structure of ball valve functions to prevent mediums from mass leakage, thus to avoid fire spreading.

### ◆ 防静电结构 Antistatic Structure

当操作阀门时，由于球体和阀座之间的摩擦，会产生静电电荷并积聚在球体上。为防止产生静电火花，特在阀门上设置防静电装置，将积聚在球体上的电荷导出（如图所示）。

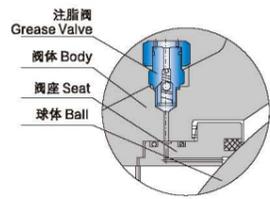
When operating the valve, the friction between the ball and seat will produce electrostatic charge that can be accumulated on the ball. To prevent static spark, an antistatic device is placed on the valve to derive the electric charge accumulated on the ball (as shown in the figure).

### ◆ 全通径结构及缩径结构

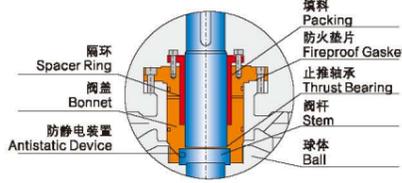
#### Full And Reduced Bore Structure

为满足用户的不同需要，本公司球阀产品有全通径及缩径两种系列（如图所示）。全通径球阀的通道内径与管道内径一致，便于管道清扫，而缩径系列球阀的重量相对较轻，但流体阻力仅为相同口径截止阀的1/7左右，故缩径系列球阀的应用前景较为广阔。

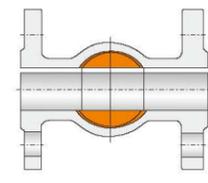
To meet the different requirements of users, we have full and reduced bore ball valves series (as shown in the figure). Full bore ball valve is for convenience of cleaning, while reduced-bore series ball valve is comparatively lighter in weight, but fluid resistance is only 1/7 of that of globe valve of the same caliber, so reduced-bore ball valves boast of wider prospects.



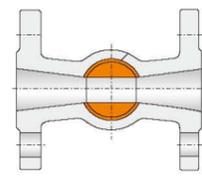
阀座辅助密封  
Seating Auxiliary Seal



阀杆防静电装置/阀盖无外漏结构  
Antistatic Device Bonnet Leak-tight Structure



全径流道形式  
Full-bore Channel Type



缩径流道形式  
Reduced-bore Channel Type

## 固定球阀概述

Trunnion Mounted Ball Valve Overview

Utmost®  
品质与艺术完美结合

### ◆ 阀体的泄放装置 Discharge Devlve On Valve Booy

根据用户要求或装置系统要求，球阀的阀体上安装有排泄阀。一旦阀门的两端被封闭，阀腔内的积压可通过阀体的排泄阀进行排放，它具有双截止与泄放（DBB）功能。阀体的泄放阀的另一种功能是通过它对阀体内的长期淤积物进行冲洗与排放。

According to user or device system requirement, discharge valve will be mounted on the body of ball valve. In case the two ends of valve have been sealed, the pressure in valve will be released through the discharge valve on the pressure in valve will be released through the discharge valve on the body. Besides the function of DBB, this discharge valve also functions to rinse and blow out the deposits inside valve body.

### ◆ 防腐蚀 Corrosion Resistance

阀体壁厚设计时留有一定的腐蚀余量，碳钢阀门阀杆、固定轴、球体、阀座及底盖均按ASTM B733和B656进行表面化学镀层。此外尚有多种防腐材料供用户选择。阀门外表使用G“国际标准”的油漆，满足了各种环境条件的要求。

Corrosion allowance is left for the design of body thickness, the stem, fixed shaft, ball, seat and bottom cover of carbon steel valve are all chemical plated in surface to ASTM B733 and B656. Use of paint from international standard to deal with all kinds of conditions.

### ◆ 抗硫化应力裂化 Sulfide Stress Cracking Resistance

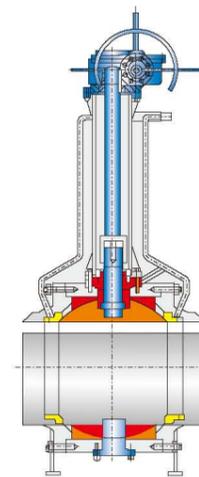
我公司生产系列抗硫球阀，阀门接触介质的材料（包括紧固件）都是按美国腐蚀工程师协会标准NACE Mr0175的要求进行选择，并在制造过程中作严格的质量控制和质量检测，以求完全符合标准的规定，并满足硫化环境工况的工艺要求。

The materials exposed to fluid of our sulfur resisting ball valves including fastening components are all selected to NACE Mr0175, and rigorous quality control and inspection is implemented in the manufacturing process to make our products conformed to the standard and suitable for vulcanizing conditions.

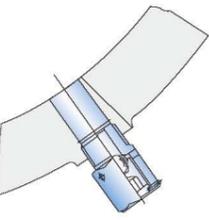
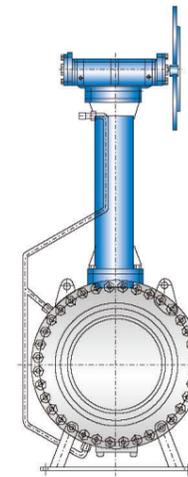
### ◆ 加长杆装置 Extension Bar Device

对于埋地球阀，可提供加长装置，加长装置包括阀杆、注油脂阀、排泄阀等的加长，如右图，用户应在订单中说明加长要求和长度（长度一般是指阀门通道中心至操作装置中心的距离）。

Extension device may be provided for buried ball valves, which include the extension of valve stem, greasing valve and discharge valve. As shown in the figure on the right, users shall specify the requirements and length to be extended (The length is generally the distance from the center of valve channel to the center of operating device).



加长杆装置  
Extension bar device



泄放装置  
Discharge Device

# 国标固定球阀

GB Trunnion Mounted Ball Valve



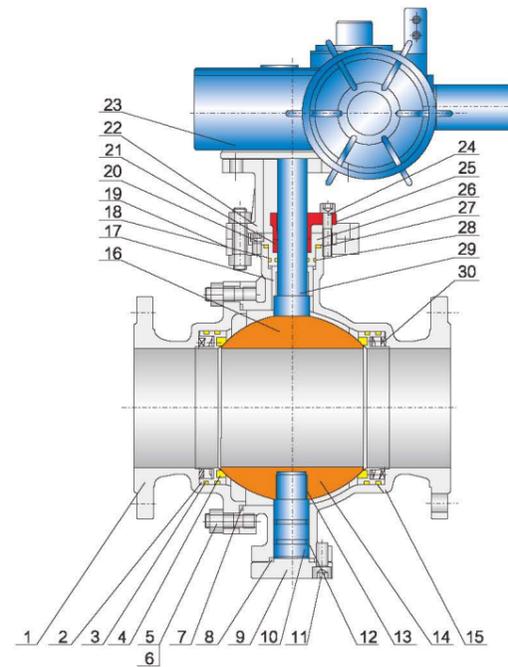
## 应用规范 Application Of Norms

1. 阀体连接处强度不得低于法兰连接焊缝强度
  2. 阀体最小壁厚按 GB 12234 规定
  3. 阀体全开时应保证球体通道与阀体通道在同一周线上
  4. 阀体应设计成在介质压力作用下, 拆开填料压盖时, 阀杆不至脱出的结构
  5. 球阀标志要求按 GB 12234 的规定
  6. 阀门供货要求按 JB/T 7928-1999 的规定
  7. 阀门检验要求按 JB/T 9092-1999 的规定
1. Valve body junction strength not less than the flange connection weld strength
  2. Valve minimum thickness requirements in accordance with GB 12234
  3. Ball valve fully open channel and the body should be guaranteed access in the same week online
  4. Valve should be designed under pressure in the medium, open packing gland, the valve stem as prolapse different structure
  5. Valve marking requirements in accordance with the provisions of GB 12234
  6. Valve supplier provisions required by the JB/T 7928-1999
  7. Valve inspection requirements by JB/T 9092-1999 requirements



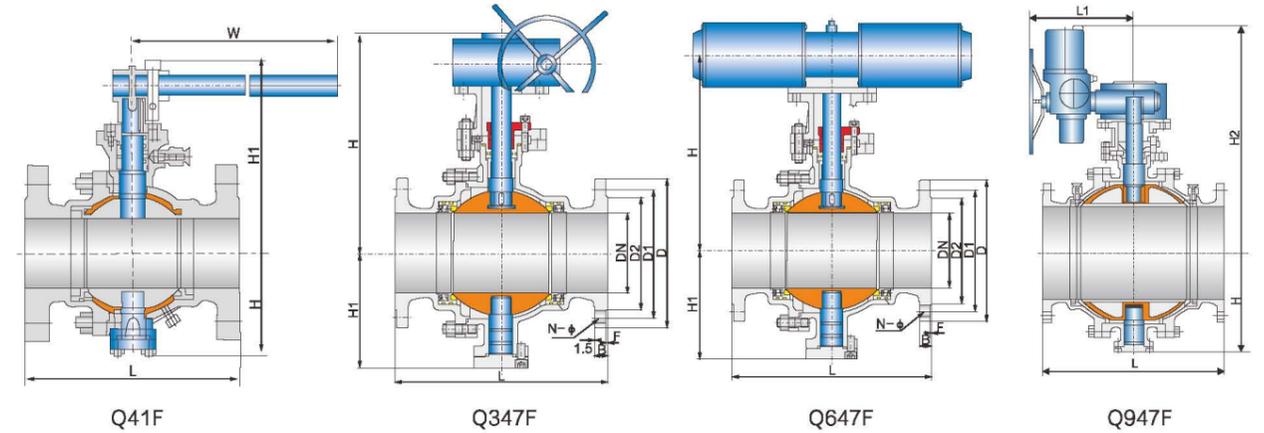
## 主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	左接体 Then left body	CF8	WCB
2	阀座 Seat	304	2Cr13
3	O型圈 O-ring	丁腈橡胶	丁腈橡胶
4	密封圈 O-ring	PTFE	PTFE
5	螺栓 Bolt	A193-B8	A193 B7
6	螺母 Nut	A194-8	A194 2H
7	O型圈 O-ring	丁腈橡胶	丁腈橡胶
8	O型圈 O-ring	丁腈橡胶	丁腈橡胶
9	阀塞 Valve plug	CF8	2Cr13
10	下阀杆 Under the stem	304	2Cr13
11	内六角螺栓 Hexagon bolt	A194-B8	A193 B7
12	O型圈 O-ring	丁腈橡胶	丁腈橡胶
13	滑动轴承 Bearing	铜合金	铜合金
14	球体 Ball	304	304
15	阀体 Body	CF8	WCB
16	平键 Flat key	1Cr18Ni9	45
17	衬套 Bush	304	304
18	O型圈 O-ring	丁腈橡胶	丁腈橡胶
19	螺栓 Bolt	A193-B8	A193 B7
20	内六角螺栓 Hexagon bolt	A193-B8	A193 B7
21	填料 Packing	柔性石墨	柔性石墨
22	支架 Support	WCB	WCB
23	电动头 Electric Head	铸铁	铸铁
24	螺栓 Bolt	A193-B8	A193 B7
25	填料压盖 Gland	CF8	WCB
26	上盖 Cover	CF8	WCB
27	O型圈 O-ring	丁腈橡胶	丁腈橡胶
28	O型圈 O-ring	丁腈橡胶	丁腈橡胶
29	阀杆 Stem	304	2Cr13
30	弹簧 Spring	304	304



# 国标固定球阀

GB Trunnion Mounted Ball Valve



## 主要连接尺寸 Main Connection Dimensions

														PN1.6MPa					
公称直径 DN	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	
d1	25	32	40	50	65	80	100	125	150	200	250	300	337	387	438	489	591	686	
L	140	165	165	203	222	241	305	356	394	457	533	610	686	762	864	914	1067	1245	
H	50	55	80	102	114	127	152	184	219	273	360	395	430	470	550	580	700	800	
手动 Manual operated	H1	75	85	95	107	125	152	178	300	330	398	495	580	625	670	698	840	1050	1100
	E	-	-	-	-	-	-	-	-	-	116	116	171	171	257	257	150	83	
	F	-	-	-	-	-	-	-	-	-	350	350	400	420	400	420	400	410	650
电动 Electromot operated	H2	-	-	-	-	-	-	-	554	600	652	760	770	830	-	940	940	1115	
	L1	-	-	-	-	-	-	-	235	235	235	259	400	400	-	410	410	410	
	H3	215	240	264	274	379	389	479	552	666	736	926	1059	1127	1393	1468	1538	1538	1450
气动 Pneumatic operated	L2	200	270	270	270	405	405	576	576	776	776	1060	1060	1360	1360	1360	1360	2840	

														PN2.5MPa					
公称直径 DN	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	
d1	25	32	40	50	65	80	100	125	150	200	250	300	337	387	438	489	591	686	
L	165	180	190	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346	
H	50	55	80	102	114	127	152	184	219	273	360	395	430	470	550	580	700	800	
手动 Manual operated	H1	75	85	95	107	125	152	178	300	330	398	495	580	625	670	698	840	1050	1100
	E	-	-	-	-	-	-	-	-	-	116	116	171	171	257	257	150	83	
	F	-	-	-	-	-	-	-	-	-	350	350	420	420	400	400	400	410	650
电动 Electromot operated	H2	-	-	-	-	-	-	-	235	235	400	400	410	410	-	420	690	690	
	L1	-	-	-	-	-	-	-	74	350	350	420	420	400	-	400	410	650	
	H3	215	240	264	340	379	452	479	646	666	814	1002	1059	1150	1205	1250	1295	1390	1470
气动 Pneumatic operated	L2	200	270	270	405	405	574	574	756	756	1060	1060	1060	1360	1360	2840	2840	3300	3300

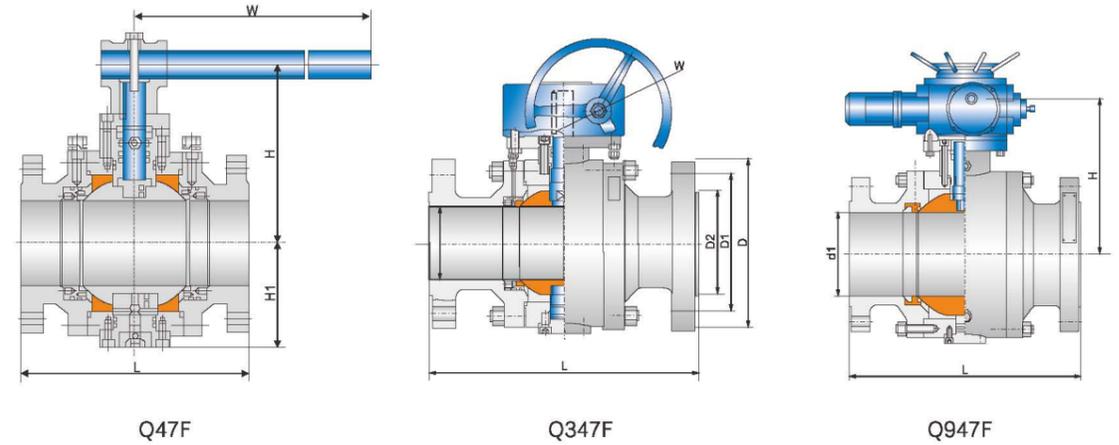
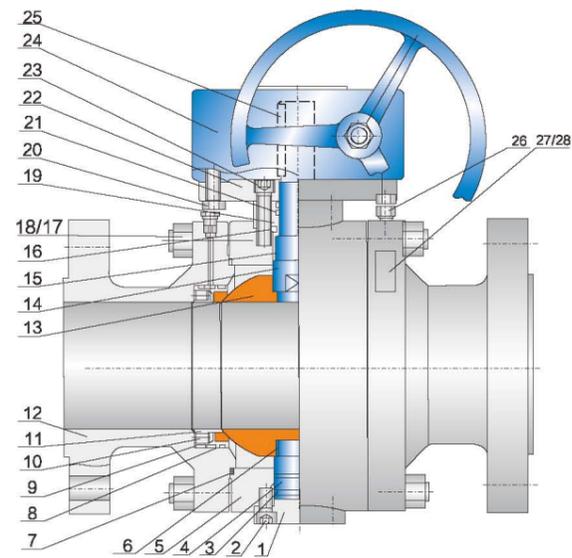
◆应用规范 Application Of Norms

- 1、设计、制造按 GB12237-2007的规定
- 2、结构长度按 GB12221-2005的规定
- 3、连接法兰 GB/T9113的规定
- 4、阀门检查和试验按 GB13927-89
1. Design and manufacture according to GB12237-2007
2. The length of the structure is in accordance with the provisions of GB12221-2005
3. Connecting flange GB/T9113 regulations
4. Valve inspection and test are in accordance with GB13927-89



◆主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	后盖 Back cover	0Cr18Ni9	35CrMoA
2	内六角螺栓 Hexagon bolt	0Cr18Ni9	25
3	O型圈 O-ring	NBR	NBR
4	固定轴 Fixed axis	0Cr18Ni9	2Cr13
5	阀体 Body	0Cr18Ni9	A107-77
6	滑动轴承 Bearing	HT62	HT62
7	O型圈 O-ring	NBR	NBR
8	O型圈 O-ring	NBR	NBR
9	密封圈 Ring	PPL	PPL
10	弹簧 Spring	17-4PH	17-4PH
11	阀座 Seat	0Cr18Ni9	2Cr13
12	阀盖 Valve cover	0Cr18Ni9	25
13	球体 Ball	0Cr18Ni9	304
14	阀杆 Stem	0Cr18Ni9	2Cr13
15	滑动轴承 Bearing	HT62	HT62
16	O型圈 O-ring	NBR	NBR
17	双头螺栓 Bearing	0Cr18Ni9	0Cr18Ni9
18	螺母 Nut	0Cr18Ni9	A193-B7
19	填料压盖 Gland	0Cr18Ni9	A193-B7
20	六角螺栓 Hexagon bolt	0Cr18Ni9	A105-77
21	O型圈 O-ring	NBR	NBR
22	连接盘 Connection plate	0Cr18Ni9	35CrMoA
23	内六角螺栓 Hexagon bolt	0Cr18Ni9	25
24	蜗轮执行器 Worm gear actuator	35CrMoA	35CrMoA
25	平键 Flat key	0Cr18Ni9	45
26	注脂阀 Grease valve	35	35
27	铭牌 Nameplate	L2或SS304	L2或SS304
28	柳丁 Orange	SS304	SS304



◆主要连接尺寸 Main Connection Dimensions

公称通径 DN		50	80	100	150	200	250	300	350	400	450	500
L	RF	203	241	305	394	457	533	610	686	762	864	914
	BW	216	283	305	457	521	559	635	762	838	914	991
H1		100	110	130	175	210	274	305	340	395	440	470
H		165	90	200	270	300	380	420	450	530	560	605
W		400	700	850	600	600	600	800	800	800	800	800
E		-	-	-	116	116	116	171	171	257	257	257
F		-	-	-	350	350	350	420	420	500	500	500

公称通径 DN		50	80	100	150	200	250	300	350	400	450	500
L	RF	216	283	305	403	502	568	648	762	838	914	991
	BW	216	283	305	457	521	559	635	762	838	914	991
H1		100	110	130	175	210	274	305	340	395	440	470
H		165	190	200	270	300	380	420	450	530	560	605
W		400	700	850	600	600	600	800	800	800	800	800
E		-	-	-	116	116	116	171	171	257	257	257
F		-	-	-	350	350	350	420	420	500	500	500

公称通径 DN		50	80	100	150	200	250	300	350	400	450	500
L	RF	216	283	305	403	502	568	648	762	838	914	991
	BW	216	283	305	457	521	559	635	762	838	914	991
H1		100	110	130	175	210	274	305	340	395	440	470
H		165	190	200	270	300	380	420	450	530	560	605
W		400	700	850	600	600	600	800	800	800	800	800
E		-	-	-	116	116	116	171	171	257	257	257
F		-	-	-	350	350	350	420	420	500	500	500

◆主要连接尺寸 Main Connection Dimensions

PN6.4MPa

公称通径 DN		50	80	100	150	200	250	300	350	400	450	500
L	RF	292	356	406	495	597	673	762	826	902	978	1054
	BW	292	356	406	495	597	673	762	826	902	978	1054
H1		110	120	140	185	220	270	310	345	410	440	480
H		180	200	210	290	320	380	430	450	550	580	630
W		400	700	850	600	600	600	800	800	800	800	800
E		-	-	-	116	116	116	171	171	257	257	257
F		-	-	-	350	350	350	420	420	500	500	500

PN10.0MPa

公称通径 DN		50	80	100	150	200	250	300	350	400	450	500
L	RF	292	356	432	559	660	787	838	889	991	1092	1194
	BW	295	359	435	562	664	791	841	892	994	1095	1200
	RTJ	292	356	432	559	660	787	838	889	991	1092	1194
H1		110	120	140	185	220	270	310	345	410	440	480
H		180	200	210	290	320	380	430	450	550	580	630
W		400	850	1000	600	600	800	800	800	800	800	800
E		-	-	-	116	116	171	171	171	150	83	123
F		-	-	-	350	350	500	420	420	580	650	735

PN16.0MPa

公称通径 DN		50	80	100	150	200	250	300	350	400	450	500
L	RF&BW	368	381	457	610	737	838	965	1029	1130	1219	1334
	RTJ	371	384	460	613	740	841	968	1038	1140	1219	1334
H1		135	158	190	200	250	285	350	400	480	530	580
H		190	200	230	300	375	420	460	530	600	640	700
W		600	600	600	600	800	800	800	800	800	800	800
E		116	116	116	171	171	83	83	123	123	180	180
F		350	350	350	420	420	650	650	735	735	735	735

PN25.0MPa

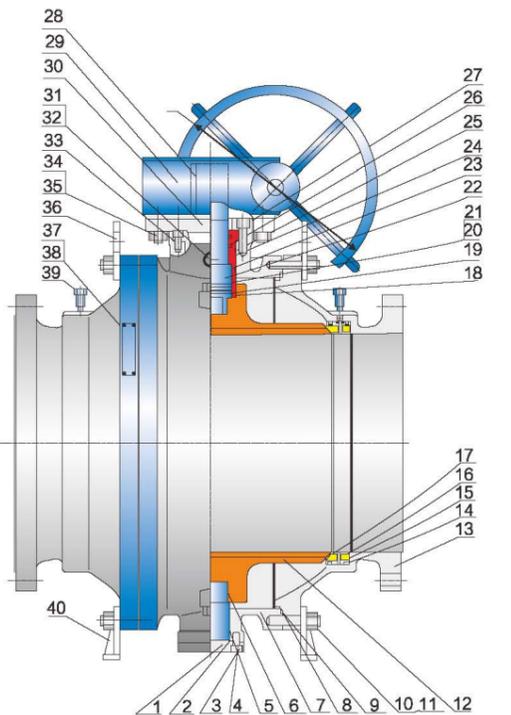
公称通径 DN		50	80	100	150	200	250	300
L	RF&BW	368	470	546	705	832	991	1130
	RTJ	371	473	549	711	841	1000	1146
H1		140	160	200	210	260	300	365
H		200	220	250	320	400	450	490
W		600	600	600	600	800	800	800
E		116	116	171	171	83	83	123
F		350	350	420	420	650	650	735

◆应用规范 Application Of Norms

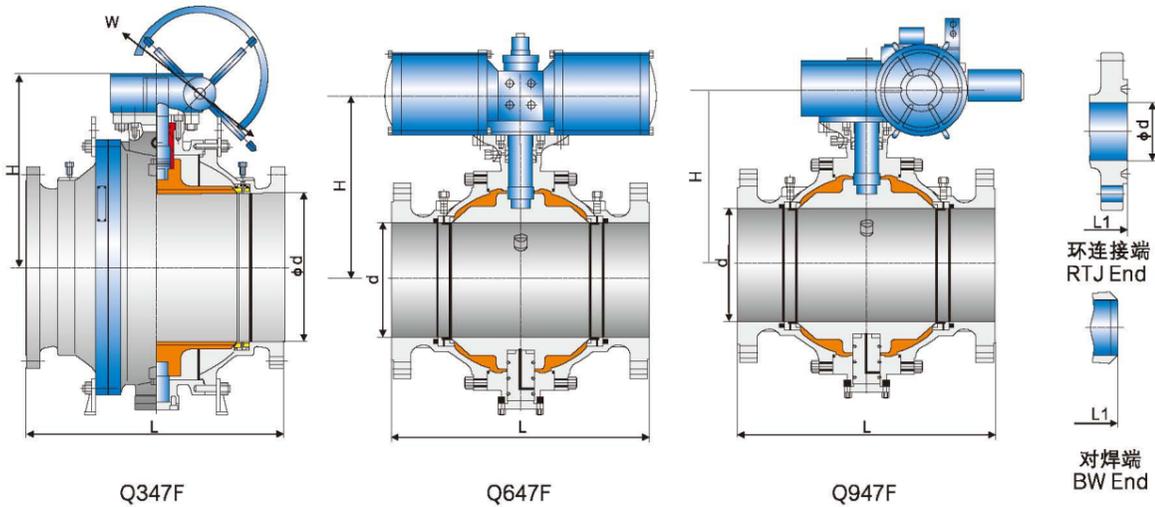
- 1、设计制造标准按 API 6D 规定
  - 2、压力温度标准按 ANSI B 16.34 规定
  - 3、结构长度标准按 ANSI B 16.10 规定
  - 4、连接法兰标准按 MSS SP-44-1996 规定
  - 5、检验与试验标准按 API 598 规定
  - 6、阀门试压合格后，应全面清洁，涂抹防锈油，并用封盖盖好两端法兰
- 1、Design and manufacturing standards in accordance with the provisions of API 6D
  - 2、pressure and temperature standards in accordance with the provisions of ANSI B 16.34
  - 3、The structure according to ANSI B16.10 standard length of regulations
  - 4、The connection flange standard according to MSS SP-44-1966 requirements
  - 5、Inspection and testing standards in accordance with API 598 requirements
  - 6、After passing the pressure test valve should be thoroughly cleaned, apply antr-rust oil, cover both ends of the flange with seal

◆主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	后盖 Back cover	304	A 105
2	O型圈 O-ring	NBR	NBR
3	内六角螺钉 Hexagon screw	A193 B8	A193 B8
4	O型圈 O-ring	NBR	NBR
5	固定轴 Fixed axis	A182 F304	2Cr13
6	滑动轴承 Bearing	H62	H62
7	阀体 Body	A351 CF8	WCB
8	O型圈 O-ring	NBR	NBR
9	O型圈 O-ring	NBR	NBR
10	双头螺柱 S Tud	A193 B8	A193 B7
11	螺母 Nut	A194 8	A194 2H
12	球体 Ball	304	304
13	阀盖 Valve cover	A351 CF8	WCB
14	O型圈 O-ring	NBR	NBR
15	弹簧 Spring	17-7PH	17-7PH
16	阀座 Seat	A102 F304	2Cr13
17	密封圈 Ring	PTFE	RPTHE
18	滑动轴承 Bearing	H62	H62
19	O型圈 O-ring	NBR	NBR
20	垫片 Gasket	PTFE	F4
21	螺塞 Plug	B8	B7
22	阀杆 Stem	304	2Cr13
23	滑动轴承 Bearing	H62	H62
24	固定套 Fixed set of	304	A105
25	O型圈 O-ring	NBR	NBR
26	O型圈 O-ring	NBR	NBR
27	内六角螺母 Hexagon screw	A193B8	B7
28	平键 Flat key	304	2Cr13
29	蜗轮执行器 Worm gear actuator	HT200	HT200
30	连接盘 Connection plate	304	A105
31	垫片 Gasket	PTFE	F4
32	注脂阀 Grease valve	组合式Combination	组合式Combination
33	内六角螺母 Hexagon screw	A193 B8	B7
34	双头螺柱 Stud	A193 B8	2H
35	螺母 Nut	A194 8	2H
36	吊耳 Lug	25	25
37	铭牌 Nameplate	L2或SS304	L2或SS304
38	柳钉 Liu nail	SS304	SS304
39	注脂阀 Grease valve	组合式Combination	组合式Combination
40	脚架 Tripod	25	25



美标固定球阀  
API Trunion-mounted Ball Valve



球阀  
Ball Valve

球阀  
Ball Valve

主要连接尺寸 Main Connection Dimensions

CLASS150Lb

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900
L (RF)	in	7.00	7.50	8.00	9.00	15.50	18.00	21.00	24.00	27.00	30.00	34.00	36.00	42.00	45.00	49.00	51.00	54.00	60.00
	mm	178	190	203	229	394	457	533	610	686	762	864	914	1067	1143	1245	1295	1372	1524
L1 (BW)	in	8.50	9.50	11.12	12.00	18.00	20.50	22.00	25.00	30.00	33.00	36.00	39.00	45.00	49.00	53.00	55.00	60.00	68.00
	mm	216	241	283	305	457	521	559	635	762	838	914	991	1143	1245	1346	1397	1524	1727
H	in	4.00	6.00	7.00	9.25	9.88	11.00	12.62	15.38	16.50	21.88	23.62	25.00	28.00	29.50	31.50	34.00	36.00	38.50
	mm	120	150	180	235	250	280	320	390	420	555	600	635	710	750	800	865	915	980
W	in	16	16	24	24	24	24	32	32	32	32	32	32	40	40	40	40	40	40
	mm	400	400	600	600	600	600	800	800	800	800	800	800	1000	1000	1000	1000	1000	1000
WT (KG)	RF	28	35	55	80	190	290	445	570	780	1520	2300	2500	3950	4890	6300	7100	8950	13500
	BW	25	28	49	71	182	277	423	553	747	1481	2266	2460	3904	4939	6362	8149	9000	13570

CLASS300Lb

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900
L (RF)	in	8.50	9.50	11.12	12.00	15.88	19.75	22.38	25.50	30.00	33.00	36.00	39.00	45.00	49.00	53.00	55.00	60.00	-
	mm	216	241	283	305	403	502	568	648	762	838	914	991	1143	1245	1346	1397	1524	-
L1 (BW)	in	8.50	9.50	11.12	12.00	18.00	20.50	22.00	25.00	30.00	33.00	36.00	39.00	45.00	49.00	53.00	55.00	60.00	-
	mm	216	241	283	305	457	521	559	635	762	838	914	991	1143	1245	1346	1397	1524	-
H	in	4.00	6.00	7.00	9.25	9.88	11.00	12.62	15.38	16.50	21.88	23.62	25.00	28.00	29.50	31.50	34.00	36.00	-
	mm	120	150	180	235	250	280	320	390	420	555	600	635	710	750	800	865	915	-
W	in	16	16	24	24	24	24	32	32	32	32	32	32	40	40	40	40	40	-
	mm	400	400	600	600	600	600	800	800	800	800	800	800	1000	1000	1000	1000	1000	-
WT (KG)	RF	30	40	60	90	200	325	490	690	990	1810	2620	2860	4430	5430	6810	7655	9590	-
	BW	24	31	49	72	169	280	424	598	872	1665	2440	2635	4075	4880	6225	7115	9230	-

美标固定球阀  
API Trunion-mounted Ball Valve



主要连接尺寸 Main Connection Dimensions

CLASS600Lb

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700
L (RF)	in	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00	57.00	61.00
	mm	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1448	1549
L1 (BW)	in	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38	57.50	61.50
	mm	295	333	359	435	562	664	791	841	892	994	1095	1200	1407	1461	1562
H	in	6.50	7.00	7.88	11.00	12.25	14.00	16.12	18.00	19.25	21.00	24.88	25.62	30.12	31.88	34.62
	mm	165	180	200	280	310	355	410	455	490	535	630	650	765	810	880
W	in	16	24	24	24	32	32	32	32	32	32	40	40	40	40	40
	mm	400	600	600	600	800	800	800	800	800	800	1000	1000	1000	1000	1000
WT (KG)	RF/RTJ	34	53	65	125	245	505	640	910	1380	2250	3400	3850	4900	6700	8300
	BW	27	43	49	95	188	418	495	740	1185	1960	3050	3406	4275	6025	7590

CLASS900Lb

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L (RF)	in	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00	40.50	44.50	48.00	52.00	61.00
	mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549
L1 (BW)	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88	48.50	52.50	61.75
	mm	371	422	384	460	613	740	841	968	1038	1140	1232	1334	1568
H	in	6.72	7.50	8.25	11.38	12.62	15.38	17.00	18.50	20.88	24.00	26.00	27.50	30.75
	mm	170	190	210	290	320	390	430	470	530	610	660	700	780
W	in	24	24	24	32	32	32	32	32	32	40	40	40	40
	mm	600	600	600	800	800	800	800	800	800	1000	1000	1000	1000
WT (KG)	RF/RTJ	45	65	73	135	360	650	930	1350	1890	3100	4300	4950	7100
	BW	37	53	56	98	291	545	760	1145	1650	2750	3875	4410	6485

CLASS1500Lb

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16
DN	mm	50	65	80	100	150	200	250	300	350	400
L (RF)	in	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50	49.50	54.50
	mm	368	419	470	546	705	832	991	1130	1257	1384
L1 (BW)	in	14.62	16.62	18.62	21.62	28.00	33.12	39.38	45.12	50.25	55.38
	mm	371	422	473	549	711	841	1000	1146	1276	1407
H	in	6.75	7.50	8.25	11.38	13.00	15.75	17.38	22.00	25.25	27.12
	mm	170	190	210	290	330	400	440	560	640	690
W	in	24	24	32	32	32	32	32	40	40	40
	mm	600	600	800	800	800	800	800	1000	1000	1000
WT (KG)	RF/RTJ	55	75	95	150	540	880	1360	1980	3100	4650
	BW	40	55	65	115	420	865	1025	1555	2600	3930

CLASS2500Lb

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16
DN	mm	50	65	80	100	150	200	250	300	350	400
L (RF)	in	17.75	20.00	22.75	26.50	36.00	40.25	50.00	56.00	-	-
	mm	451	508	578	673	914	1022	1270	1422	-	-
L1 (BW)	in	17.88	21.25	23.00	26.88	36.50	40.88	50.88	56.88	-	-
	mm	454	540	584	683	927	1038	1292	1445	-	-
H	in	7.50	9.00	11.00	14.12	15.75	18.88	20.50	26.38	-	-
	mm	190	230	280	360	400	480	520	670	-	-
W	in	24	32	32	32	32	40	40	40	-	-
	mm	600	800	800	800	800	1000	1000	1000	-	-
WT (KG)	RF/RTJ	68	95	120	185	675	1100	1650	2300	-	-
	BW	54	74	91	122	555	918	1355	2950	-	-

## 全焊接球阀 Full Welded Ball Valve

Utmost®  
品质与艺术完美结合

### ◆ 产品用途 Product Usage

适用于区域供热(热电联产)、输热、输油及除氧水等工业管线。  
Suitable for the pipeline to transfer cogeneration, heating, oil, deoxygenized water and etc.

### ◆ 结构特性 Structure Features

- 1、阀门是由全焊接的阀体和增强四氟密封垫组成，阀门可在有杂质及化学物质的情况下进行频繁操作，运行可靠。
  - 2、采用浮动球结构，斜面弹性垫圈保证密封圈紧压在球体之上，即使在压力不稳定的情况下，阀门也可以保证良好的密封性。
  - 3、阀杆可加长，易于保温。
1. The valve is composed by a full welding body together with the RPTFE sealing which ensures the valve can work well in there are impurities or chemical substance.
2. Floating ball structure and the flexible seat will ensure the ball and the sealing connects each other tightly. Even when the pressure is not stable, the valve can also have a good sealing.
3. The stem can be extended which is good for keeping the temperatures table.



### ◆ 主要零部件材料 Materials of main parts

零件名称 Part Name	材料 Materials
手柄 Handle	镀锌钢 Carbon steel
垫圈 Retaining ring	不锈钢 SS304
O型圈 O-ring	Viton
阀杆 Spindle	不锈钢 SS420
密封圈 Gasket	RPTFE(碳纤维)
球 Ball	不锈钢 SS304
球座 Ball seat	RPTFE(碳纤维)
备用垫圈 Back-up ring	不锈钢 SS304
弹性垫圈 Spring washer	不锈钢 SS304
球室 Valve casing	St.37.0

### ◆ 主要性能规范 Main performance specification

设计和制造 Design and Manufacture	API 6D、ASME B16.34、API 608、MSS-SP-72	
结构长度 Face-to-Face	按厂标 Manufacture's specification	
连接端*Connection End	法兰连接 Flanged	ASME B16.5
	对焊连接 Butt-Welding	ASME B16.25
试验和检验 Test and Inspection	API 598、API 6D	
防火试验 Fire Test	API 607、API 6FA	

\*阀门连接端对焊尺寸可按用户要求设计制造。

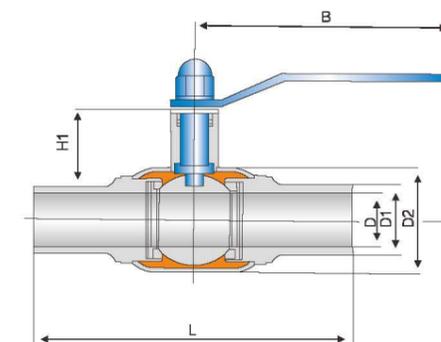
The dimension of welded end connection can be designed and manufactured according to the buyers's request.

## 全焊接球阀 Full Welded Ball Valve

Utmost®  
品质与艺术完美结合



Q61F-25/40



### ◆ 主要连接尺寸 Main Connection Dimensions

PN25 PN40

DN	PN	L	D	D1	D2	H	B	H1	Weight (KG)	扭矩 (N.M)
15	40	210	15	21.7	42.7	103	129	22	-	3-4
20	40	230	20	27.2	48	118	159	23	-	5-7
25	40	260	25	34.0	60	121	159	34	-	8-11
32	40	260	32	42.7	76	120	230	34	-	12-18
40	40	300	40	48.6	89	127	230	43	-	25-32
50	40	300	50	60.5	114	170	300	44	-	38-45
65	25	300	65	76.3	140	185	300	71	-	55-65
80	25	300	80	89.1	165	210	400	77	-	110-120
100	25	325	100	114.3	216	253	400	102	-	200-250
125	25	350	125	139.8	219	273	450	102	-	300-340
150	25	490	150	165.2	355	300	450	107	-	450-480
200	25	580	200	216.3	356	345	252	123	-	750-800
250	25	550	250	267.4	457	572	236	122	-	900-950
300	25	630	300	318.5	508	697	331	155	-	1200-1300
350	25	762	337	355.6	559	764	331	187	-	1900-2000
400	25	840	387	406.4	660	810	360	221	-	-
500	25	1010	489	508.0	812	973	413	221	-	-

# Butterfly Valve

## 蝶阀系列



蝶阀是指关闭件（阀瓣或蝶板）为圆盘，围绕阀轴旋转来达到开启与关闭的一种阀，在管道上主要起切断和节流用。蝶阀启闭件是一个圆盘形的蝶板，在阀体内绕其自身的轴线旋转，从而达到启闭或调节的目的。蝶阀全开到全关通常是小于90°，蝶阀和蝶杆本身没有自锁能力，为了蝶板的定位，要在阀杆上加装蜗轮减速器。采用蜗轮减速器，不仅可以使蝶板具有自锁能力，使蝶板停止在任意位置上，还能改善阀门的操作性能

Butterfly valve is closed a (disc or disc) is a disk, around the axis of rotation to achieve a valve open and close, in the tube on the main cutting and throttling. Butterfly valve opening and closing is a disc-shaped butterfly plate, the body around its own axis rotation turn, so as to achieve the aim of opening and closing or adjust. Butterfly valve fully open to the barrier is usually less than 90°, butterfly valve and the adjustment rod itself Self-locking ability, for the sake of the butterfly plate positioning, to add worm gear reducer on the valve stem. The use of worm gear reducer, can not only make the butterfly plate with self-locking ability, make the butterfly plate to stop at any position, can also improve the operating performance of the valve



## 软密封蝶阀概述

### Soft Seal Butterfly Valve Overview

#### 产品概述 Product Overview

本厂研制的软密封中线对夹式蝶阀，双偏心法兰式蝶阀结构紧凑，90°回转开关轻松，密封可靠，使用寿命长，被广泛用于水厂、电厂、钢厂、造纸、化工、饮食等系统供排水中，作为调节和截止使用。

The factory developed by the center line of soft sealed-off valve on the folder, double-butterfly valve flange eccentric compact, 90 ° rotary switch easily, sealing reliable, long life, is widely used in water works, power plants, steel mills and by creating Paper, chemicals, food, and other systems for drainage, as the deadline for the use and regulation.

#### 产品型号编制方法 Model of Product



#### 产品特点 Feature

- 1、本阀采用双偏心结构，具有越关越紧的密封功能，密封性能可靠。
  - 2、密封面材料选用不锈钢和丁腈油橡胶配对，使用寿命长。
  - 3、橡胶密封圈即可位于阀体上，也可以位于蝶板上，可适用不同特点的介质，供用户选择。
  - 4、蝶板采用框架结构，强度高，过流面积大，流阻小。
  - 5、整体烤漆、能有效地防止锈蚀且只要更换密封阀座密封材料，就可使用于不同介质。
  - 6、本阀具有双向密封功能，安装时不受介质流向的控制，也不受空间位置的影响，可在任何方向安装。
  - 7、本阀结构独特，操作灵活，省力，方便。
1. This valve adopts a double eccentric structure, which has a tighter sealing function as it closes, and its sealing performance is reliable.
  2. The sealing surface material is made of stainless steel and nitrile oil-resistant rubber, which has a long service life.
  3. The rubber sealing ring can be located on the valve body or on the butterfly plate, which can be applied to different characteristics of media for users to choose.
  4. The butterfly plate adopts a frame structure with high strength, large flow area and small flow resistance.
  5. The overall baking varnish can effectively prevent corrosion and can be used in different media as long as the sealing valve seat sealing material is replaced.
  6. This valve has a two-way sealing function. It is not controlled by the flow direction of the medium during installation and is not affected by the spatial position. It can be installed in any direction.
  7. This valve has unique structure, flexible operation, labor saving and convenient.

#### 主要技术参数 Main Technology Parameter

公称口径 Nominal diameter	50~2000		50~1600
公称压力 Nominal pressure	0.6	1.0	1.6
密封试验 Seal Test (MPa)	0.66	1.1	1.76
强度试验 Strength Test (MPa)	0.9	1.5	2.4
适用温度 Appropriate temperature	丁腈橡胶: -40°C~90°C 氟橡胶: -20°C~200°C NBR: -40°C~90°C Fluororubber: -20°C~200°C		
适用介质 Appropriate medium	水、空气、天然气、油品及耐腐蚀性流体 Water, air, gas, oil and weak corrosive fluid		
泄漏率 Leakage Rate	符合GB/T4213-92标准 GB/T4213-92 meet standards		
驱动方式 Drive method	蜗轮传动、气动、电动、液动 Worm transmission, pneumatic, electrical, hydraulic		

## 软密封蝶阀概述

Soft Seal Butterfly Valve Overview

**Utmost®**  
品质与艺术完美结合

### ◆ 主要零部件材料 Materials of main parts

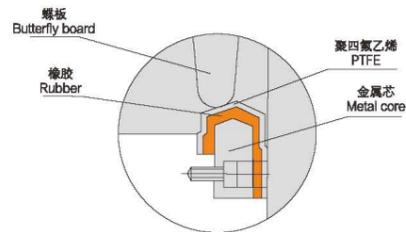
零件名称 Parts name	材料 Material
阀体 Body	WCB、QT450-10、HT200、HT250
蝶板 Disc	WCB、QT450-10、HT200、HT250
阀轴 Shaft	2Cr13
密封圈 Ring	丁腈耐油橡胶 NBR
填料 Packing	柔性石墨 Flexible Graphite

### ◆ 采用标准 Adoption Standard

制造标准 Design standard	GB/T 12238-89
法兰标准 Flange standards	GB9113-2000、GB17241.6-1998
结构长度标准 Structure standards	GB12221-89
检验标准 Test standards	GB/T 13927-92

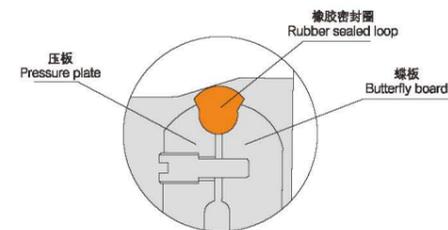
蝶阀 Butterfly Valve

蝶阀 Butterfly Valve



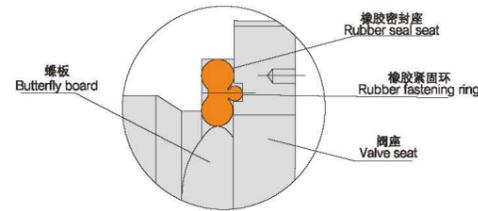
J形橡胶密封圈是将密封圈做在阀座上的一种密封形式。密封圈由金属材料外包覆四氟乙烯及特种硫化橡胶层组成。金属芯使蝶板有足够的刚性，聚四氟乙烯的软硬过渡，以及橡胶层的弹性补偿确保阀门的可靠密封。

J-ring rubber seal will be done on the valve seat in a sealed form. Ring from the base metal, coated metal from ethylene and tetrafluoroethylene special vulcanized rubber layer. Tip of metal-core board so that there is sufficient rigidity, the soft and hard transition PTFE, rubber suction to the flexibility of compensation to ensure that a reliable valve seal.



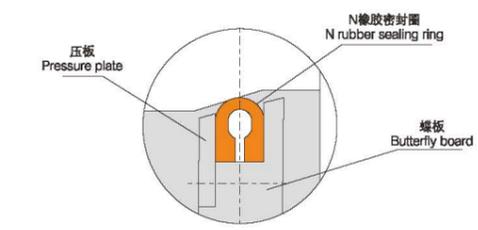
扇形弹性橡胶密封圈是将密封圈做在蝶板上的一种密封形式。密封面的配合可用螺栓调节，当阀座经过一段时间的使用后，密封面有一定量的磨损，此时拧紧螺栓挤压扇形弹性橡胶密封圈，补偿磨损余量，延长阀门寿命。

Fan-shaped flexible rubber ring is to do in the ring butterfly board form a seal. Seal can be used with bolts of the regulation, when the valve seat after a period of use, the sealing surface is a certain amount of wear and tear, then tighten bolts squeeze fan flexible rubber ring, compensation wear cushion to extend valve life.



哑铃形橡胶密封圈是将密封圈做在阀座上的一种密封形式。哑铃形密封圈用O形橡胶固环限制，阻止密封圈滑出沟槽。该结构密封性能特别好，使用寿命长，但只限于用于低压，常温的管路系统。密封圈更换容易，方便维修。

Dumbbell-shaped rubber ring is to do in the ring on the valve seat form a seal. Dumbbell-shaped seal with O-ring rubber restricted, to prevent ring slid off the trench. The structure of sealing performance particularly good, long life, but only for low-voltage, the normal temperature of the pipeline system. Seal replacement easy, easy maintenance.



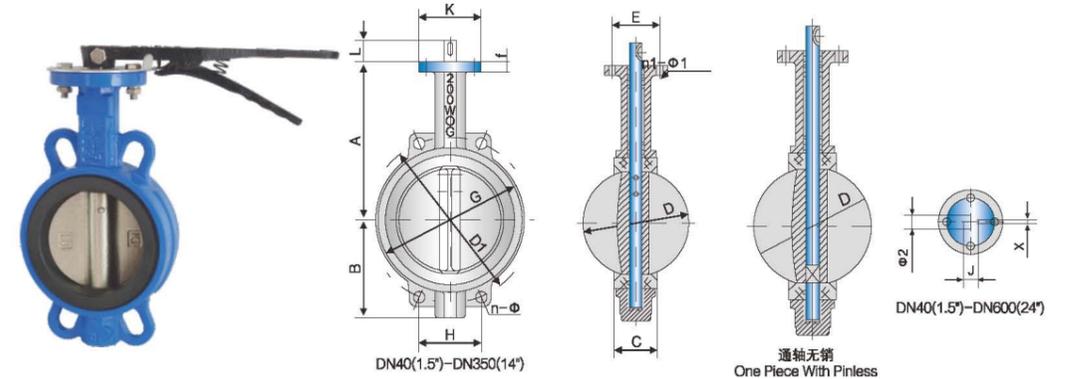
N形高弹性密封圈是将密封圈做在蝶板上的一种形式。n形高弹性密封用压板压住，并用螺栓固定，内部镶嵌金属钢丝索加强环，既有柔性又能防止密封圈径向胀缩。适合于中、高压管路系统。

N-Seal is a flexible ring will be done in the form of a butterfly board. n-shaped seal with a flexible clips and fixed with bolts, steel metal embedded within the Central Sisuo strengthen both flexible ring can prevent the radial expansion and contraction. Suitable for, high-pressure pipeline system.

## 对夹式软密封蝶阀

Wafer Type Soft Sealing Butterfly Valve

**Utmost®**  
品质与艺术完美结合



### ◆ 主要性能规范 Main performance specification

公称通径 DN(mm) Nominal diameter	50 (2")~1000(40")	50(2")~800(32")
公称压力 PN(MPa) Nominal pressure	1.0	1.6
试验能力 (MPa) Test capability	壳体 Housing	1.5
	密封 Seal up	1.1
适用温度 °C Applicable temperature	-15~+150	
适用介质 Applicable medium	淡水、污水、海水、空气、蒸气、食品、药品、各种油类、酸类、碱类、盐类等 Fresh water, sewage, sea water, air, steam, food, drugs, all kinds of oils, acids, bases, salts, etc.	

### ◆ 主要零部件材料 Materials of main parts

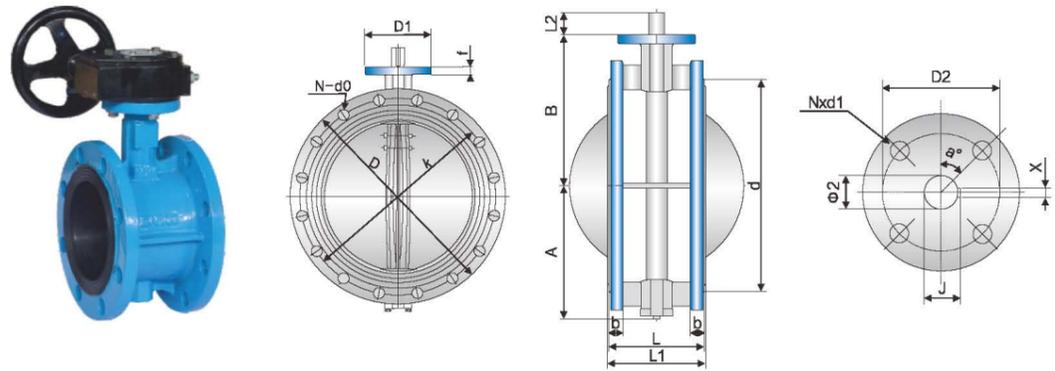
零件名称 Part name	材料名称 Material name
阀体 Valve body	灰铸铁、球墨铸铁、不锈钢 Gray iron, ductile iron, stainless steel
阀板 Valve plate	球墨铸铁、不锈钢、铝合金 Ductile iron, stainless steel and aluminum alloy
阀轴 Valve shaft	碳钢、不锈钢 Carbon steel and stainless steel
阀座 Valve seat	橡胶 Rubber
密封 Seal up	O型圈 O type ring

### ◆ 主要连接尺寸 Main Connection Dimensions

单位 Unit: mm

规格 Size	mm		inch		A	B	C	D	L	H	D1	n-φ	K	E	n1-φ1	φ2	G	n2-M	f	J	X	重量 Weight (kg)
	mm	inch	mm	inch																		
40	1.5	136	69	33	42.6	30	77.77	110	4-18	77	50	4-6.7	12.6	100	-	13	13.8	3	2.3			
50	2	161	80	43	52.9	32	84.84	125	4-23	77	57.15	4-6.7	12.6	100	-	13	13.8	3	2.5			
65	2.5	175	89	46	64.5	32	96.2	145	4-26.5	77	57.15	4-6.7	12.6	120	-	13	13.8	3	3.2			
80	3	181	95	46	78.8	32	61.23	160	8-18	77	57.15	4-6.7	12.6	127	-	13	13.8	3	3.6			
100	4	200	114	52	104	32	70.8	180	4-24.5	92	69.85	4-10.3	15.77	156	-	13	17.77	5	4.9			
125	5	213	127	56	123.3	32	82.28	210	4-23	92	69.85	4-10.3	18.92	190	-	13	20.92	5	7			
150	6	226	139	56	155.6	32	91.08	240	4-25	92	69.85	4-10.3	18.92	212	-	13	20.92	5	7.8			
200	8	260	175	60	202.5	45	112.89	295	4-25	115	88.9	4-14.3	22.1	268	-	13	24.1	5	13.2			
250	10	292	203	68	250.5	45	92.4	350	4-29	115	88.9	4-14.3	28.45	325	-	13	31.45	8	19.2			
300	12	337	242	78	301.6	45	105.34	400	4-29	140	107.95	4-14.3	31.6	403	-	20	34.6	8	32.5			
350	14	368	267	78	333.3	45	91.11	460	4-30	140	107.95	4-14.3	31.6	436	-	20	34.6	8	41.3			
400	16	400	309	86	389.6	51.2	100.47	515	4-26	197	158.75	4-20.6	33.15	488	-	20	36.15	10	61			
450	18	422	328	105	440.51	51.2	88.39	565	4-26	197	158.75	4-20.6	37.95	536	-	20	41	10	79			
500	20	480	361	127	491.6	64.2	86.99	620	4-26	197	158.75	4-20.6	41.15	590	-	22	44.15	10	128			
600	24	562	459	154	592.5	70.2	113.42	725	20-30	276	215.9	4-22.2	50.65	816	-	22	54.65	16	188			
700	28	624	520	165	695	66	109.65	840	24-30	300	254	8-18	63.35	895	-	30	71.4	18	284			
800	32	672	591	190	794.7	66	124	950	24-33	300	254	8-18	63.35	1015	-	30	71.4	18	368			
900	36	720	656	203	864.7	118	117.57	1050	24-33	300	254	8-18	75	1115	4-M30	34	84	20	713			
1000	40	800	721	216	965	142	129.89	1160/1170	24-36	300	254	8-18	85	1230	4-M33	35	95	22	864			
1200	48	940.7	864	254	1160	150	101.5	1380/1390	32-39	350	298	8-22	105	1455	4-M36	35	117	28	1130			

## 法兰式软密封蝶阀 Flange Type Soft Sealing Butterfly Valve



### 标准与规范 Standards and specifications

1. 该产品符合GB12238-89《通用阀门法兰和对夹连接蝶阀》标准。
  2. 试验符合GB/T13927-92。
  3. 测法兰连接符合GB4216.4-4216.5-84《灰铸铁法兰及垫片》标准。
- 1, The product conforms to the standard of GB12238-89 general valve flange and clip coupling butterfly valve.  
2, Test in accordance with GB/T13927-92.  
3, Flange connection is in line with GB4216.4-4216.5-84 standard for grey cast iron flange and gasket.

### 主要零部件材料 Materials of main parts

零件名称 Part name	材料名称 Material name
阀体 valve body	灰铸铁、球墨铸铁、不锈钢 Gray iron, ductile iron, stainless steel
阀板 Valve plate	球墨铸铁、不锈钢、铝合金 Ductile iron, stainless steel and aluminum alloy
阀轴 Valve shaft	碳钢、不锈钢 Carbon steel and stainless steel
阀座 Valve seat	橡胶 Rubber
密封 Seal up	O型圈 O type ring

### 主要性能规范 Main performance specification

公称通径DN(mm) Nominal path	DN50-800
公称压力PN(MPa) Nominal pressure	1.0-1.6
适用温度℃ Applicable temperature	-23~+121
适用介质 Applicable medium	淡水、污水、海水、气体等 Fresh water, sewage, sea water, gas, etc.

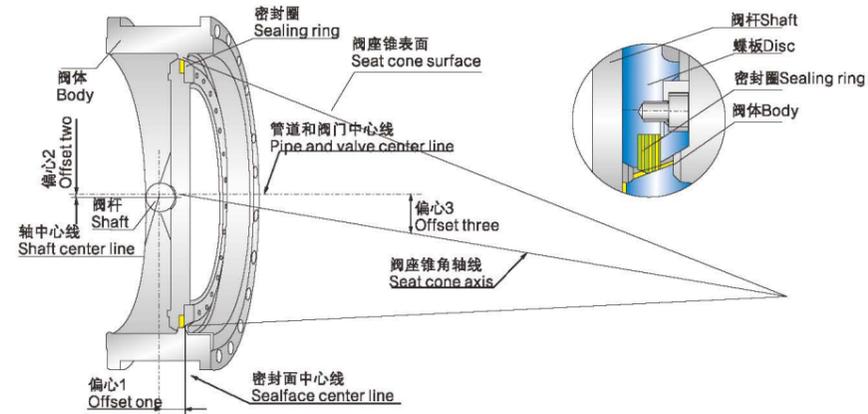
### 主要连接尺寸 Main Connection Dimensions

单位Unit: mm

DN	A	B	b	f	D	PN1.0 K	PN1.6 K	d	F	PN1.0 Nx phi d0	PN1.6 Nx phi d0	L	L1	D1	D2	Nx phi d1	a°	J	X	L2	phi 2
50	83	120	19	3	165	125	125	99	13	4x19	4x19	108	111	65	50	4-7	45	13.8	3	32	12.6
65	93	130	19	3	185	145	145	118	13	4x19	4x19	112	115	65	50	4-7	45	13.8	3	32	12.6
80	100	145	19	3	200	160	160	132	13	8x19	8x19	114	117	65	50	4-7	45	13.8	3	32	12.6
100	114	155	19	3	220	180	180	156	13	8x19	8x19	127	130	90	70	4-10	45	17.77	5	32	15.77
125	125	170	19	3	250	210	210	184	13	8x19	8x19	140	143	90	70	4-10	45	20.92	5	32	18.92
150	143	190	19	3	285	240	240	211	13	8x23	8x23	140	143	90	70	4-10	45	20.92	5	32	18.92
200	170	205	20	3	340	295	295	266	13	8x23	12x23	152	155	125	102	4-12	45	24.1	5	45	22.1
250	198	235	22	3	395	350	355	319	13	12x23	12x28	165	168	125	102	4-12	45	31.5	8	45	28.45
300	223	280	24.5	4	445	400	410	370	20	12x23	12x28	178	182	125	102	4-12	45	34.6	8	45	31.6
350	270	310	24.5	4	505	460	470	429	20	16x28	16x28	190	194	150	125	4-14	45	34.6	8	45	31.6
400	300	340	24.5	4	565	515	525	480	20	16x28	16x31	216	221	175	140	4-18	45	36.15	10	51	33.15
450	340	375	25.5	4	615	565	585	530	20	20x28	20x31	222	227	175	140	4-18	45	40.95	10	51	38
500	355	430	26.5	4	670	620	650	582	22	20x28	20x34	229	234	175	140	4-18	45	44.12	10	57	41.15
600	410	500	30	5	780	725	770	682	22	20x31	20x37	267	272	210	165	4-22	45	51.62	16	70	50.65
700	478	560	32.5	5	895	840	840	794	30	24x31	24x37	292	299	300	254	8-18	22.5	71.35	18	66	63.36
800	529	620	35	5	1015	950	950	901	30	24x34	24x41	318	325	300	254	8-18	22.5	71.35	18	66	63.36
900	584	665	37.5	5	1115	1050	1050	1001	34	28x34	28x41	330	337	300	254	8-18	22.5	84	20	118	75
1000	657	735	40	5	1235	1160	1170	1112	34	28x37	28x44	410	417	300	254	8-18	22.5	95	22	142	85
1200	799	917	45	5	1455	1380	1380	1328	34	32x40	32x50	470	478	350	298	8-22	22.5	117	28	150	105
1400	919	1040	46	5	1675	1590	1590	1530	40	36x44	36x50	530	538	415	356	8-33	22.5	134	32	200	120
1500	965	1050	47.5	5	1785	1700	1710	1630	40	36x44	36x57	570	580	415	356	8-32	22.5	156	36	200	140
1600	1045	1150	49	5	1915	1820	1820	1700	50	40x50	40x57	600	610	415	356	8-32	22.5	156	36	200	140
1800	1280	1290	52	5	2115	2020	2020	1914	55	44x50	44x57	670	682	475	406	8-40	22.5	178	40	280	160
2000	1350	1323	55	5	2325	2230	2230	2130	55	48x50	48x62	760	772	475	406	8-40	22.5	178	40	280	160
2200	1430	1500	60	5	2555	2440	-	2320	55	52x56	-	636	648	560	483	12-40	15	200	45	300	180
2400	1523	1560	68	5	2760	2650	-	2530	55	56x56	-	750	762	686	603	20-40	9	242	50	400	220

## 三偏心蝶阀概述 Triple Offset Butterfly Valve Overview

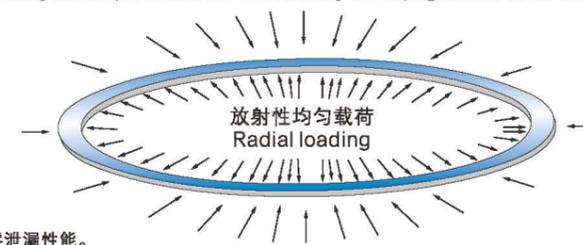
### 三偏心几何图 The Triple Offset Geometry



第一个偏心轴偏离密封面中心线  
第二个偏心轴偏离管径及阀门中心线  
第三个独特的偏心阀座斜角与管径中心的夹角，这样，使得阀座与密封圈在整个开关过程中完全脱离。这种结构既利用了凸轮效应，又完全消除了摩擦，去除了磨损和泄漏的可能。  
The first eccentric, shaft deviated from the centerline of sealing face.  
The second eccentric, shaft deviated from the centerline of pipe and valve.  
The third eccentric, the distinctive included angle between oblique taper angle of eccentric seat and centerline of pipe, thus making the seat completely disengaged from the sealing ring during the whole process of open and close.  
This structure not only uses cam effect, but also eliminates the possibility of abrasion and leakage.

零泄漏我们公司生产的三偏心蝶阀，依靠安装在蝶板上的复合不锈钢密封圈来实现真正的零泄漏。  
The zero leakage of our triple eccentric butterfly valve is implemented by the composite stainless steel sealing ring mounted on the disc.  
零泄漏是通过蝶板上密封圈的弹性来实现的，该密封圈的弹性（如右图）是通过其径向的压缩和柔动产生的。密封圈与阀座接触面为斜锥面。密封圈与阀座之间的接触角产生轻微的“楔式效应”，使密封圈发生柔动和径向压缩。正由于阀座与密封圈之间均匀接触以及密封圈的柔性，使得加载在阀座上的载荷均匀，从而用最小的扭矩实现最严密的切断。扭矩产生的弹性使得阀门严密判断，而与介质流向或介质力无关。

Zero leakage is implemented by the elastic sealing ring mounted on the disc. The elasticity of sealing ring (see fig.Right) is produced by its radial compression and flexibility. The contact surface between the wealing ring and seat is an oblique cone. The contact angle between them gives slight 'wedge effect', making the sealing ring producing flexibility and radial compression. The even contact between the seat and sealing ring, and the closest cutoff by the lowest torque. The elasticity produced by the torque makes the valve vlosely cut off, regardless of the flow direction or pressure of medium.



### 产品特点 Feature

1. 复合金属密封圈的弹性特性使得阀门具有零泄漏性能。
  2. 扭矩密封确保阀门持续的双向零泄漏性能。
  3. 直角旋转无摩擦设计是通过一个独特的三偏心原理来实现，它消除90°开关旋转中阀座与密封圈之间的摩擦。
  4. STL一体式硬面阀座可满足许多工况要求，使用寿命，维修方便。
  5. 一体式铸造(板焊)阀体，结构长度符合ISO5752、ASMEB16.10和API609。可替换高性能蝶阀以及其他种类的阀门，安装简单，灵活全金属结构加上零泄漏性能，使阀门具有‘本质防火安全’特性。
  6. 阀杆防吹出设计安全可靠，完全符合API609的要求。
  7. 阀杆杆上的阀位指示器以及顶部安装法兰有利于蝶板位置指示。
  8. 三偏心蝶阀的阀杆采用一根通轴式结构，阀杆与蝶板连接采用键或销键组合。
1. The elasticity of the composite metal sealing ring makes the valve have zero leakage performance.
  2. Torque sealing ensures the continuous two-way zero leakage of the valve.
  3. The frictionless design of right-angle rotation is realized through a unique three-eccentric principle, which eliminates the friction between the valve seat and the sealing ring in 90° switch rotation.
  4. STL one-piece hard-faced valve seat can meet the requirements of many working conditions, has a service life and is convenient for maintenance.
  5. One-piece cast (plate-welded) valve body with structural length conforming to ISO5752, ASMEB16.10 and API609. It can replace high-performance butterfly valves and other types of valves, simple installation, flexible all-metal structure and zero leakage performance, so that the valve has the characteristics of 'intrinsic fire safety'.
  6. The blow-out prevention design of the valve stem is safe and reliable, and fully meets the requirements of API609.
  7. The valve position indicator on the valve stem and the top mounting flange are conducive to the position of the butterfly plate.
  8. The valve stem of the triple eccentric butterfly valve adopts a through-shaft structure, and the connection between the valve stem and the butterfly plate adopts a key or pin key combination.

## 三偏心蝶阀概述

Triple Offset Butterfly Valve Overview

**Utmost®**  
品质与艺术完美结合

### ◆ 技术性能规范 Technical Specification

设计标准 Design Standard	API609			
压力温度等级 Pressure-Temperature Rating	API609, ASME B16.34			
结构长度 Face-Face	API609, ISO5752, ASME B16.10			
法兰型式尺寸 Flange Ends	ASME/B16.5/B16.47			
检验与试验 Inspection & Test	API598			
公称压力 Nominal Pressure	CLASS150	CLASS300	CLASS600	
试验压力(MPa) Test Pressure	壳体试验 Shell Test	2.93	7.58	15.0
	高压密封 High Pressure Seal Test	2.07	5.52	11.03
	低压密封 Low Pressure Seal Test	0.6	0.6	0.6
适用温度 Applicable Temperature	-46°C~550°C(不同的工况温度选用不同的材质) Different raw material for different work temperature			
适用介质 Applicable Medium	水、油、气及各类腐蚀性介质(不同的介质选用不同的材质) Water, oil, gas and other causticity medium(Different raw material for different medium)			

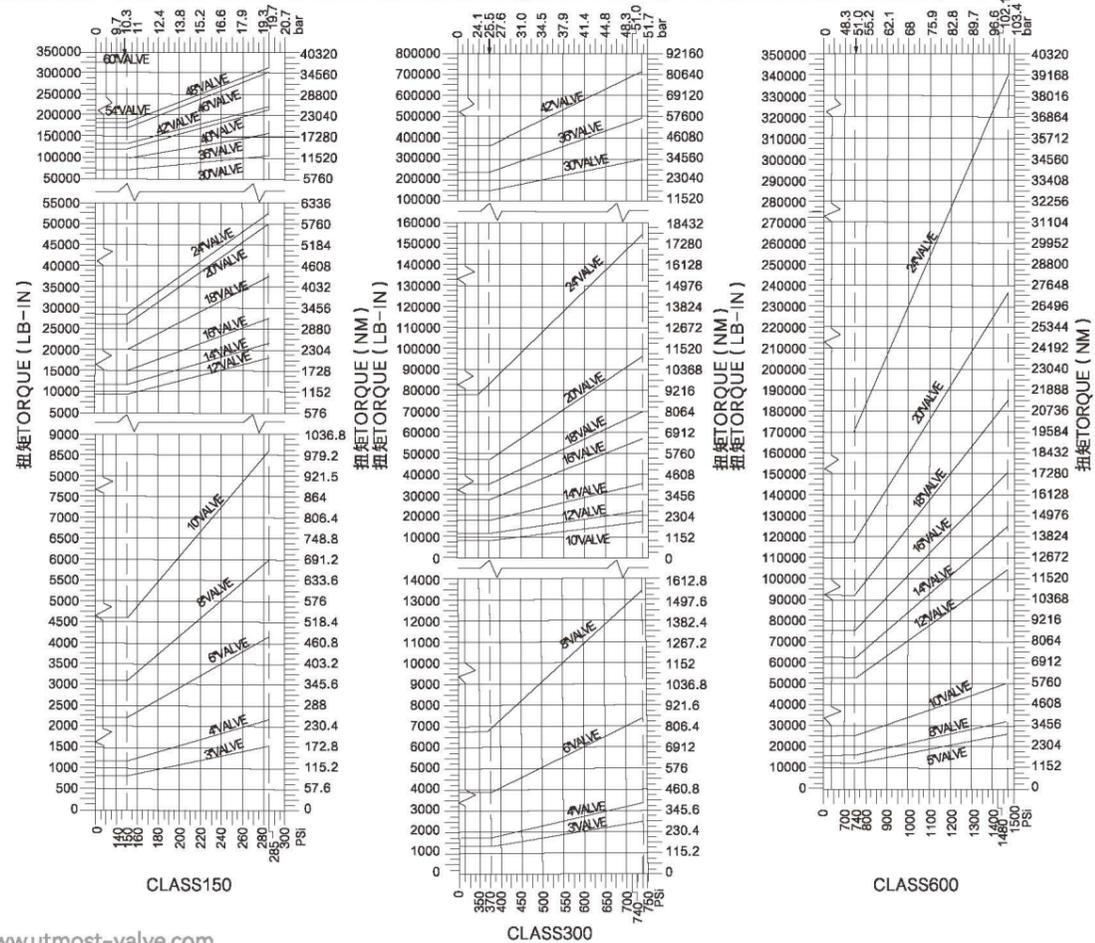
注：表中压力试验值根据WCB的压力温度等级而定。

Note: the experimental valve of pressure in the table is subject to the pressure and temperature rating of WCB.

下图扭矩供选择（美标阀门）驱动装置时参考。根据介质的特性。内件及阀门的开启频率尚需作额外因素考虑。

The following graphic torque is used for reference to choose the actuators of ANSI valves. According to the property of medium. Trims and open-close frequency of valve shall be considered as extra factors.

### ◆ 三偏心蝶阀参考力矩图 Reference Moment Diagram Of Triple Eccentric Butterfly Valve



## 国标对夹式多层次硬密封蝶阀

GB Wafer Type Multi-layer Hard-seal Butterfly Valve

**Utmost®**  
品质与艺术完美结合

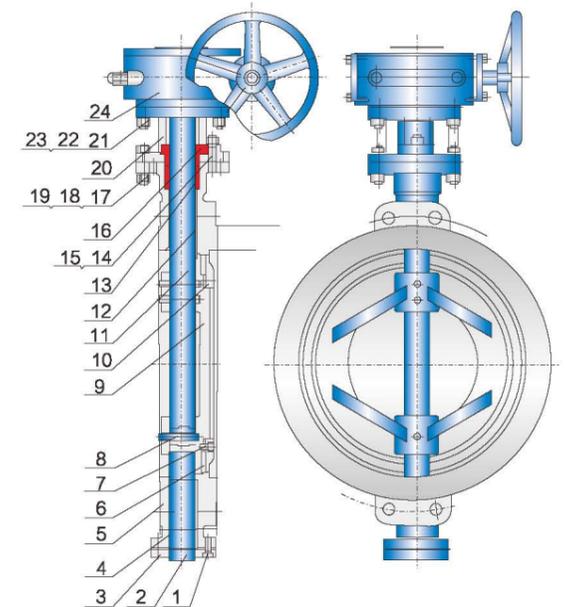
### ◆ 应用规范 Application Of Norms

1. 阀门各部分在装配前, 应清除毛刺、尖棱和污秽等
  2. 装配完毕后, 阀门转动灵活平稳, 不应有卡阻现象
  3. 试验后应关闭, 以确保密封面在贮存和运输中不受损坏
  4. 阀门的设计与制造按 JB/T 8527 的规定
  5. 阀门的检查和试验按 JB/T 9092 的规定
  6. 连接法兰按 GB/T 9113.1 的规定
  7. 阀门的结构长度按 GB/T 12221 的规定
  8. 阀门的压力-温度使用应符合 GB/T 9124 的额定值
1. Valve parts in the assembly, should remove burrs, sharp edges and dirty, etc
  2. After assembly, flexible and smooth valve rotation, should not be jamming phenomenon
  3. Rubber lined butterfly valve should be closed after the test to ensure that bees face in the storage and transportation are not damaged
  4. Valve design and manufacture according to JB/T 8527
  5. Valve inspection and testing by JB/T 9092
  6. The connection flange according to GB/T 9113.1
  7. The length of the valve structure according to GB/T 12221
  8. Valve pressure - temperature used should conform to GB/T 9124's ratings



### ◆ 主要零部件材料 Materials of main parts

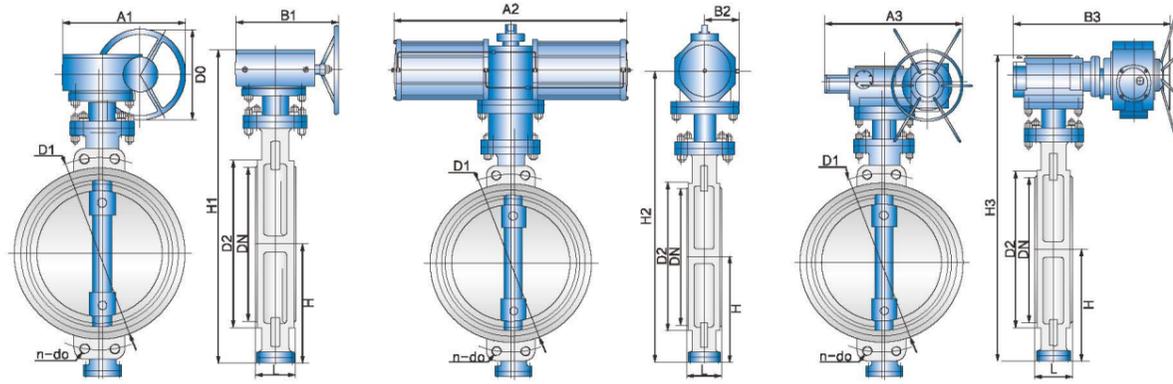
序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	ZG0Cr18Ni9	WCB
2	销 Pin	0Cr18Ni9	45
3	蝶板 Disc	ZG0Cr18Ni9	WCB
4	阀杆 Stem	0Cr18Ni9	2Cr13
5	六角螺栓 Hexagon bolt	0Cr18Ni9	45
6	螺栓 Bolt	0Cr18Ni9	35CrMoA
7	填料 Fiiller	PTFE	石墨
8	填料压盖 Gland	ZG0Cr18Ni9	WCB
9	六角螺栓 Hexagon bolt	0Cr18Ni9	45
10	螺柱 Stud	0Cr18Ni9	35CrMoA
11	支架 Support	WCB	WCB
12	螺栓 Bolt	0Cr18Ni9	35CrMoA
13	蜗轮 Worm	组合件 Assembly	组合件 Assembly



## 国标对夹式多层次硬密封蝶阀

GB Wafer Type Multi-layer Hard-seal Butterfly Valve

**Utmost®**  
品质与艺术完美结合



D373H

D673H

D973H

### 主要连接尺寸 Main Connection Dimensions

单位Unit: mm

公称通径DN Nominal diameter		结构长度(标准值) Structure length (standard) L	H	外形尺寸(参考值) External dimension(Reference Valve)									连接尺寸(标准值) Connection dimension (Reference Valve)			
mm	inch			H1	A1	B1	H2	A2	B2	H3	A3	B3	D1	n-d0	D1	Z-d
50	2	43	112	350	180	200	625	245	72	530	250	255	110	4-14	125	4-18
65	2 1/2	46	115	370	180	200	625	245	72	530	250	255	130	4-14	145	4-18
80	3	49	120	380	180	200	645	245	72	565	250	255	150	4-18	160	8-18
100	4	56	138	420	180	200	675	355	92	600	250	255	170	4-18	180	8-18
125	5	64	164	460	180	200	715	355	92	640	250	255	200	8-18	210	8-18
150	6	70	175	555	270	280	800	355	92	705	300	315	225	8-18	240	8-22
200	8	71	215	780	400	425	850	250	170	775	300	315	280	8-18	295	8-22
250	10	76	243	840	400	425	825	250	170	945	300	315	335	12-18	350	12-22
300	12	83	285	995	450	560	1035	450	220	1070	300	315	395	12-22	400	12-22
350	14	92	320	1050	450	560	1070	450	220	1140	300	315	445	12-22	460	16-22
400	16	102	350	1120	535	580	1190	450	220	1210	300	315	495	16-22	515	16-26
450	18	114	350	1280	535	580	1250	650	280	1335	575	714	550	16-22	565	20-26
500	20	127	380	1365	535	580	1290	650	280	1415	575	714	600	20-22	620	20-26
600	24	154	435	1460	570	660	1455	850	380	1605	656	810	705	20-26	725	20-30
700	28	165	480	1520	750	550	1585	850	380	1844	656	810	810	24-26	840	24-30
800	32	190	530	1710	750	550	1700	1250	380	2040	656	810	920	24-30	950	24-33
900	36	203	595	1810	750	550	1965	1250	380	2255	785	863	1020	24-30	1050	28-33
1000	40	216	650	1900	900	750	2015	1250	380	2380	785	863	1120	28-30	1160	28-36
1200	48	254	775	2280	1000	925	2250	1250	380	2640	785	863	1340	32-33	1380	32-39
1400	56	279	870	2450	1000	925	-	-	-	2886	-	-	1560	36-36	1590	36-42
1600	64	318	1000	2730	1000	925	-	-	-	3156	-	-	1760	40-36	1820	40-48
1800	72	356	1110	3020	1100	980	-	-	-	3421	-	-	1970	44-39	2020	44-48
2000	80	406	1250	3270	1100	980	-	-	-	3685	-	-	2180	48-42	2230	48-48

## 国标三偏心法兰连接蝶阀

GB Triple Offset Fflanged Butterfly Valve

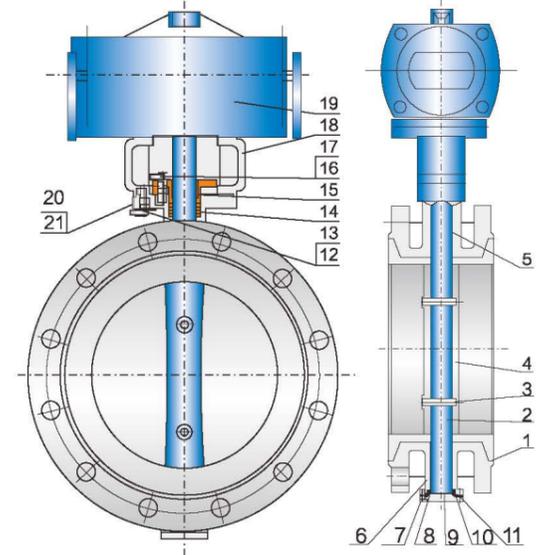
**Utmost®**  
品质与艺术完美结合

### 应用规范 Application Of Norms

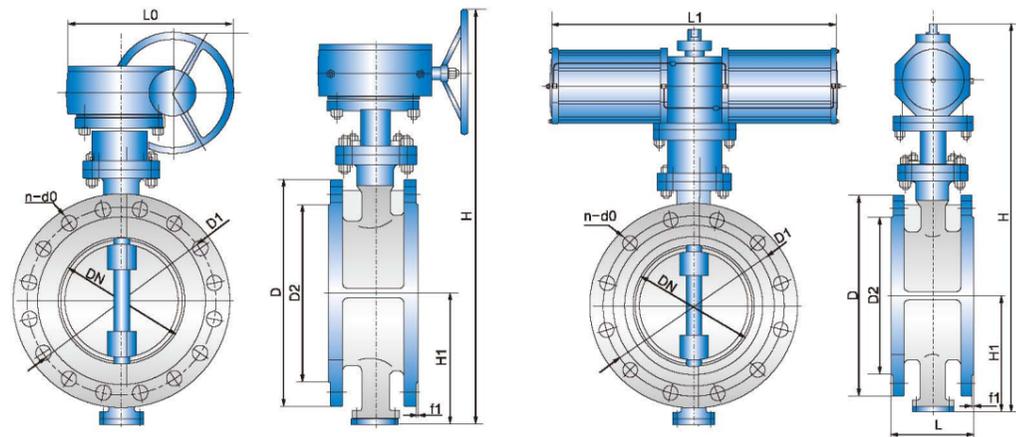
1. 设计符合 GB/T 12238-1989
  2. 检验与试验按 GB/T 13927
  3. 法兰连接尺寸符合 GB/T 12221-1989
1. Design accord with GB/T 12238-1989
  2. Test and inspection conform to GB/T 13927
  3. The flanged connection dimensions accord with GB/T 12221-1989

### 主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	ZG0Cr18Ni9	WCB+NBR
2	阀杆 Stem	304	2Cr13
3	销 Pin	304	2Cr13
4	蝶板 Disc	ZG0Cr18Ni9	304
5	轴套 Bushing	H62	H62
6	下轴套 Lower Bushing	H62	H62
7	压盖螺栓 Gland Bolt	0Cr18Ni9	35CrMoA
8	密封圈 Sealing Ring	A3	A3
9	间隔 Space	0Cr18Ni9	Q235A
10	垫片 Gasket	PTFE	304+graphite
11	下盖 Lower Cover	0Cr18Ni9	WCB
12	螺母 Nut	0Cr18Ni9	45
13	螺栓 Cove Bolt	0Cr18Ni9	35CrMoA
14	填料 Packing	PTFE	Flexible Graphite
15	压盖 Gland Flange	ZG0Cr18Ni9	WCB
16	垫片 Gasket	0Cr18Ni9	65Mu
17	螺栓 Cove Bolt	0Cr18Ni9	35CrMoA
18	支架 Bracket	WCB	WCB
19	气动执行器 Pneumatic Actuator	不锈钢Stainless steel	不锈钢Stainless steel
20	铭牌 Name Plate	AL	AL
21	铆钉 Rivet	ML2	ML2



国标三偏心法兰连接蝶阀  
GB Triple Offset Fflanged Butterfly Valve



D343W/H

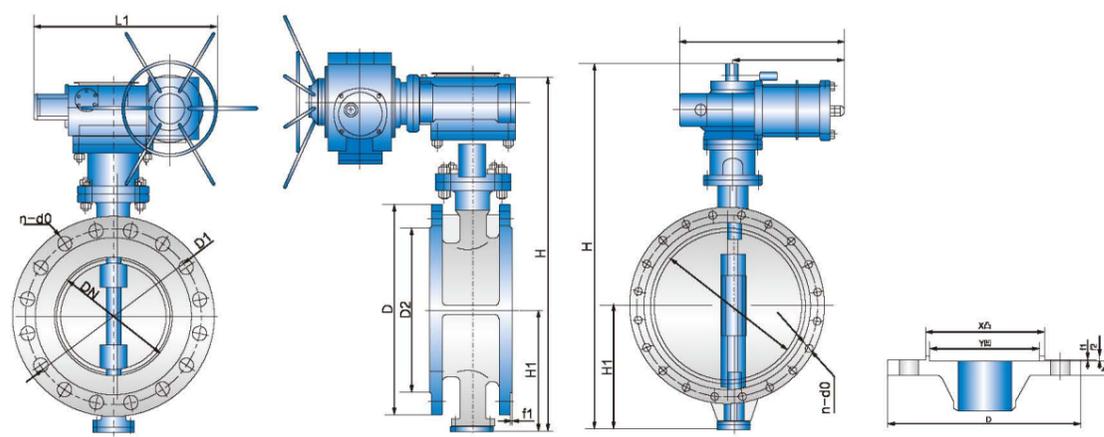
D643W/H

◆主要连接尺寸 Main Connection Dimensions

PN1.0MPa

DN	D	D1	突面 D2 Tunisia face	凸合 f1 Boss	b	n-d0	L	H	H1	手动装置 Manual device		电动装置 Electrical device		气动装置 Pneumatic device		液动装置 Hydraulic devices				
										L0	型号 Mode	L1	型号 Mode	L1	型号 Mode	L1	L2	型号 Mode		
80	200	160	135	3	20	8-18	114	390	118	150	SQ2	190	QB30-1	280	AG13					
100	220	180	155	3	22	8-18	127	405	125	150	SQ3	240	QB60-1	560	AG13					
125	250	210	185	3	22	8-18	140	450	140							190	480	YGA 2000		
150	285	240	210	3	24	8-22	140	500	145	195	SQ4	350	QB 120-1	750	AW17					
200	340	295	265	3	24	8-22	152	580	175			310	SQ5	390	QB 250-1					
250	395	350	320	3	26	12-22	165	630	205				SQ6		DZW10					
300	445	400	368	4	26	12-22	178	680	230					540	DZW15	1180	AW20	220	520	YGA 4000
350	505	460	428	4	26	16-22	190	750	255			440			DZW20					
400	565	515	482	4	26	16-26	216	815	280				SQ7		DZW30					
450	615	565	532	4	28	20-26	222	875	308						DZW45					
500	670	620	585	4	28	20-26	229	930	330						DZW60					
600	780	725	685	5	30	20-30	267	1025	380	510	SQ8	720	DZW90	1350		360	915	YGA 8000		
700	895	840	800	5	30	24-30	292	1160	340						DZW120					
800	1015	950	905	5	32	24-33	318	1320	495						DZW180					
900	1115	1050	1005	5	34	28-33	330	1450	550	630	SQ9	790	DZW250	1580	AW350	400	1063	YGA 16000		
1000	1230	1160	1110	5	34	28-36	410	1592	625											
1200	1455	1380	1330	5	38	32-39	470	1895	730											
1300	1575	1490	1430	5	46	32-41	475	1980	790	680	SQ10	890								
1400	1675	1590	1530	5	48	36-48	530	2060	850											
1500	1785	1700	1640	5	50	36-48	530	2150	910											
1600	1915	1820	1750	5	52	40-48	600	2510	1020											
1800	2115	2020	1950	5	56	44-48	670	2640	1114											
2000	2325	2230	2150	5	60	48-48	760	2870	1240											
2200	2550	2440	2370	6	80	52-56	760	3010	1355											
2400	2760	2650	2570	6	90	56-56	760	3220	1460	1150	SQ13	1670								

国标三偏心法兰连接蝶阀  
GB Triple Offset Fflanged Butterfly Valve



D943W/H

D943W/H

B型  
凹面(FM)

◆主要连接尺寸 Main Connection Dimensions

PN1.6MPa

DN	D	D1	突面 D2 Tunisia face	凸合 f1 Boss	b	n-d0	L	H	H1	手动装置 Manual device		电动装置 Electrical device		气动装置 Pneumatic device		液动装置 Hydraulic devices				
										L0	型号 Mode	L1	型号 Mode	L1	型号 Mode	L1	L2	型号 Mode		
80	200	160	135	3	20	8-18	114	390	118	150	SQ2	190	QB30-1	-	-	-	-	-	-	-
100	220	180	155	3	22	8-18	127	475	148			195	SQ3	240	QB60-1		AW13			
125	250	210	185	3	22	8-18	140	520	155											
150	285	240	210	3	24	8-22	140	570	170				SQ4	350	QB 120-1	750		190	480	YGA 2000
200	340	295	265	3	24	12-22	152	650	175	340			SQ5	390	QB 250-1		AW17			
250	405	355	320	3	26	12-26	165	700	235											
300	460	410	375	4	28	12-26	178	750	260											
350	520	470	436	4	10	16-26	190	820	285											
400	580	525	485	4	32	16-30	216	875	310											
450	640	585	545	4	34	20-30	222	945	338	415			SQ7			1180	AW20	210	520	YGA 4000
500	715	650	608	4	16	20-33	229	1030	360											
600	840	770	718	5	38	20-36	267	1135	430											
700	910	840	788	5	38	24-36	292	1300	495	510			SQ8	720	DZW60	1350		360	915	YGA 8000
800	1025	950	898	5	38	24-39	318	1420	545											
900	1125	1050	998	5	40	28-39	330	1610	610	600			SQ9	790	DZW90	1800		400	1063	YGA 16000
1000	1255	1170	1110	5	42	28-42	410	1700	675	680			SQ10							
1200	1485	1390	1325	5	48	32-45	470	1850	792											
1300	1585	1490	1425	5	48	32-45	475	1970	850	750			SQ11	890	DZW 180					
1400	1685	1590	1525	5	48	36-48	530	2070	901											
1500	1820	1710	1640	5	48	36-52	530	2230	970											
1600	1930	1820	1750	5	55	40-52	600	2340	1030											
1800	2130	2020	1950	5	55	44-52	670	2560	1130											
2000	2345	2230	2150	5	60	48-56	760	2790	1240	1080			SQ13		DZW 800					

蝶阀 Butterfly Valve

蝶阀 Butterfly Valve

国标三偏心法兰连接蝶阀  
GB Triple Offset Fflanged Butterfly Valve



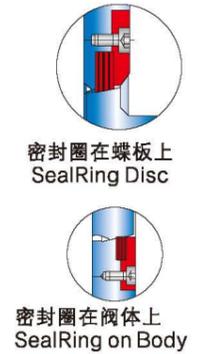
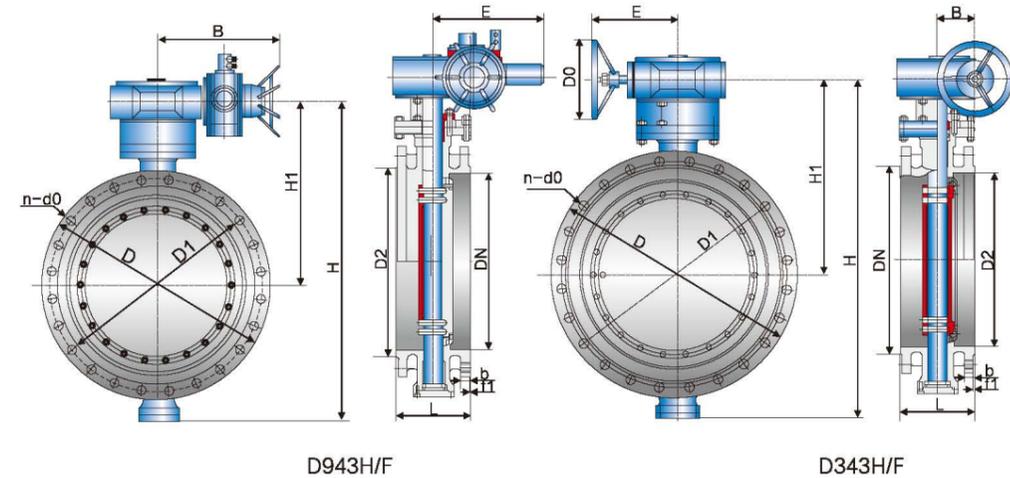
◆主要连接尺寸 Main Connection Dimensions

DN	D	D1	突面 D2 Tunisia face	凸台 f1 Raised Face	b	n-d0	L	H	H1	PN2.5MPa									
										手动装置 Manual device LO 型号 Mode	电动装置 Electrical device L1 型号 Mode	气动装置 Pneumatic device L1 型号 Mode	液动装置 Hydraulic devices L1 L2 型号 Mode						
80	200	160	135	3	20	8-18	114	370	123	192	SQ2	190	QB30-1						
100	235	190	160	3	24	8-22	127	495	158			240	QB60-1						
125	270	220	188	3	26	8-26	140	540	165	195	SQ3		750 1180 1350	TAW17	190	480	YGA 2000		
150	300	250	218	3	28	8-26	140	590	180				DZW10						
200	360	310	278	3	30	12-26	152	670	185	240	SQ4								
250	425	370	332	3	32	12-30	165	720	245										
300	485	430	390	4	34	16-30	178	770	270										
350	555	490	448	4	38	16-33	192	840	295	320	SQ5	540	DZW15		AW20	220	520	YGA 4000	
400	620	550	505	4	40	16-36	216	895	320										
450	670	600	555	4	42	20-36	222	965	348										
500	730	660	610	4	44	20-36	229	1050	370										
600	845	770	718	5	46	20-39	267	1155	440										
700	960	875	815	5	46	24-42	272	1320	500										
800	1085	990	930	5	50	24-48	318	1440	555	600	SQ9		DZW120	1800	QQA 16000	400	1063	YGA 16000	
900	1185	1090	1025	5	58	28-48	330	1550	650										
1000	1320	1210	1140	5	62	28-55	410	1700	720	640	SQ10	790	DZW180						
1200	1530	1420	1350	5	70	32-55	470	1930	830										
1300	1645	1530	1450	5	74	32-62	475	2035	885										
1400	1755	1640	1560	5	76	36-60	530	2180	950										
1500	1865	1750	1670	5	80	36-62	530	2303	1002										
1600	1975	1860	1780	5	84	40-60	660	2420	1060	890	SQ12	1090	DZW500						
														DZW800					

PN4.0MPa

DN	尺寸/mm(4.0MPa)											
	L	D	D1	f1	f2	x(凸)	Y(凹)	b	D0	H	H1	n-d0
50	150	160	125	3	4	100	88	20	157	405	80	4-18
65	170	180	145	3	4	120	110	22	157	420	90	8-18
80	180	195	160	3	4	135	121	22	157	445	97	8-18
100	190	230	190	3	4.5	160	150	24	157	485	115	8-23
125	200	270	220	3	4.5	188	176	28	205	560	135	8-25
150	210	300	250	3	4.5	218	204	30	205	632	198	8-25
200	230	375	320	3	4.5	282	260	38	235	774	246	12-30
250	250	445	385	3	4.5	345	313	42	235	812	290	12-34
300	270	510	450	4	4.5	408	364	46	296	954	312	16-34
350	290	570	510	4	5	465	422	52	296	1014	352	16-34
400	310	655	585	4	5	535	474	58	400	1098	392	16-41
450	330	680	610	4	5	560	524	60	400	1236	412	20-41
500	350	755	670	4	5	612	576	62	440	1322	461	20-48
600	390	890	795	5	6	730	678	62	440	1519	516	20-54
700	430	995	900	5	6	835	768	68	440	1607	562	24-54
800	470	1135	1030	5	6	960	876	72	500	1757	642	24-58
900	510	1250	1140	5	6	1070	988	76	500	1803	710	28-56
1000	550	1380	1250	5	6	1180	1094	80	500	1930	770	28-56
1200	630	1575	1460	6	8	1350	1315	96	620	2100	841	32-60
1400	710	1795	1680	6	8	1560	1523	115	620	2270	1000	36-68

美标三偏心法兰连接蝶阀  
API Triple offset flanged butterfly Valve



◆主要连接尺寸 Main Connection Dimensions

NPS	DN	D	D1	突面 D2 Raised Face	凸台 f1 Boss	b	n-d0	短结构 Short pattern	H	H1	B	E	D0	CLASS150Lb
3"	80	190	152.5	127	1.6	24	4×18	114	472	350	50	130	203	
4"	100	230	190.5	175.5	1.6	24	8×18	127	520	375	60	188	203	
6"	150	280	241.5	216	1.6	25.5	8×22	140	580	410	67	220	305	
8"	200	345	298.5	270	1.6	29	8×22	152	650	440	90	260	460	
10"	250	405	362	324	1.6	30.5	12×26	165	700	460	90	260	460	
12"	300	485	432	381	1.6	32	12×26	178	800	530	100	295	610	
14"	350	535	476	413	1.6	35	12×29.5	190	980	675	100	320	356	
16"	400	600	540	470	1.6	37	16×29.5	216	1042	710	120	320	457	
18"	450	635	578	533.5	1.6	40	16×32.5	222	1110	750	120	340	610	
20"	500	700	635	584	1.6	43	20×32.5	229	1170	760	140	340	762	
24"	600	815	749.5	692	1.6	48	20×35	267	1225	777	140	360	762	
26"	650	786	744.5	711	1.6	41.5	36×22.5	267	1100	670	155	360	300	
28"	700	837	795.5	762	1.6	44.5	40×22.5	292	1157	703	155	360	300	
30"	750	888	846	813	1.6	44.5	44×22.5	308	1210	730	155	360	300	
32"	800	942	900	863.5	1.6	46	48×22.5	318	1275	756	190	435	300	
34"	850	1005	957.5	921	1.6	49.5	40×25.5	318	1330	783	190	435	300	
36"	900	1057	1009.5	971.5	1.6	52.5	44×25.5	330	1390	833	210	580	350	
38"	950	1124	1070	1022.5	1.6	54	40×28.5	330	1415	865	230	580	350	
40"	1000	1175	1120.5	1079.5	1.6	56	44×28.5	410	1510	891	230	580	350	
42"	1050	1226	1171.5	1130.5	1.6	59	48×28.5	410	1560	920	230	580	350	
44"	1100	1277	1222	1181	1.6	60.5	52×28.5	410	1610	943	263	620	350	
46"	1150	1342	1284	1235	1.6	62	40×32	470	1677	975	263	620	400	
48"	1200	1392	1335	1289	1.6	65	44×32	470	1747	1050	263	620	400	
50"	1250	1443	1386	1340	1.6	68.5	48×32	470	1795	1075	263	620	400	
52"	1300	1494	1436.5	1390.5	1.6	70	52×32	470	1850	1100	263	620	400	
54"	1350	1550	1492.5	1441.5	1.6	71.5	56×32	470	1910	1125	310	690	400	
56"	1400	1600	1543	1492.5	1.6	73.5	60×32	530	1960	1150	310	690	400	
58"	1450	1675	1611.5	1543	1.6	75	48×35	530	2035	1187	310	690	450	
60"	1500	1762	1662	1600	1.6	76.5	52×35	530	2087	1213	310	690	450	

## 美标三偏心法兰连接蝶阀 API Triple Offset Flanged Butterfly Valve

**Utmost®**  
品质与艺术完美结合

### ◆主要连接尺寸 Main Connection Dimensions

CLASS300Lb

NPS	DN	D	D1	突面 D2 Raised Face	凸台 f1 Raised Face	b	n-d0	短结构 Short pattern	H	H1	B	E	D0
3"	80	210	168.5	127	1.6	29	8×22	180	378	253	73	229	152
4"	100	255	200	157.5	1.6	32	8×22	190	421	274	73	229	305
6"	150	320	270	216	1.6	34	12×22	210	543	351	108	254	305
8"	200	380	330	270	1.6	41.5	12×26	230	628	392	108	254	305
10"	250	445	387.5	324	1.6	48	16×29.5	250	855	480	133	305	610
12"	300	520	451	381	1.6	51	16×32.5	270	812	515	133	305	610
14"	350	585	514.5	413	1.6	54	20×32.5	290	885	555	175	256	610
16"	400	650	571.5	470	1.6	57.5	20×35.5	310	951	590	175	356	356
18"	450	710	628.5	533.5	1.6	60.5	24×35.5	330	1020	615	175	356	356
20"	500	775	686	584	1.6	63.5	24×35.5	350	1080	653	175	356	356
24"	600	915	813	692	1.6	70	24×42	390	1200	759	210	435	400
26"	650	867	803	736.5	1.6	89	32×35	390	1197	734	210	435	400
28"	700	921	857	787.5	1.6	89	36×35	430	1251	761	210	435	400
30"	750	991	920.5	844.5	1.6	94	36×38	430	1321	796	210	435	400
32"	800	1054	978	901.5	1.6	103.5	32×41	470	1395	840	250	580	425
34"	850	1108	1031.5	952.5	1.6	103.5	36×41	470	1450	865	250	580	425
36"	900	1172	1089	1009.5	1.6	103.5	32×44.5	510	1525	916	250	580	425
38"	950	1222	1140	1060.5	1.6	111.5	36×44.5	510	1580	951	300	620	450
40"	1000	1273	1191	1114.5	1.6	116	40×44.5	550	1633	977	300	620	450
42"	1050	1334	1244.5	1168.5	1.6	119.5	36×48	550	1694	1010	300	620	450
44"	1100	1385	1295.5	1219	1.6	127	40×48	550	1750	1033	350	620	450
46"	1150	1461	1365.5	1270	1.6	128.5	36×51	630	1825	1071	350	690	500
48"	1200	1511	1416	1327	1.6	128.5	40×51	630	1893	1106	350	690	500
50"	1250	1562	1467	1378	1.6	138.5	44×51	630	1942	1131	350	690	500
52"	1300	1615	1517.5	1429	1.6	143	48×51	630	1995	1157	420	820	520
54"	1350	1674	1578	1479.5	1.6	137	48×51	710	2055	1187	420	820	520
56"	1400	1766	1651	1536.5	1.6	154	36×60.5	710	2166	1253	420	820	520
58"	1450	1828	1713	1594	1.6	154	40×60.5	710	2228	1284	455	1020	600
60"	1500	1878	1764	1651	1.6	151	40×60.5	710	2278	1310	455	1020	600

CLASS600Lb

NPS	DN	D	D1	突面 D2 Raised Face	凸台 f1 Raised Face	b	n-d0	短结构 Short pattern	H	H1	B	E	D0
6"	150	355	292	216	6.4	48	12×29.5	210	680	480	130	320	300
8"	200	420	349	270	6.4	55.5	12×32.5	230	750	515	130	320	300
10"	250	510	432	324	6.4	63.5	16×35.5	250	840	560	130	320	300
12"	300	560	489	381	6.4	67	20×35.5	270	890	580	155	340	350
14"	350	605	527	413	6.4	70	20×39	290	955	625	175	360	350
16"	400	685	603	470	6.4	76.5	20×42	310	1035	665	175	360	350
18"	450	745	654	533.5	6.4	83	20×45	330	1095	693	175	360	350
20"	500	815	724	584	6.4	89	24×45	350	1165	730	210	435	400
24"	600	940	838	692	6.4	102	24×51	390	1290	805	250	580	425
26"	650	1016	914.5	749.5	6.4	108	28×51	390	1386	860	250	580	425
28"	700	1073	965	800	6.4	111.5	28×54	430	1443	893	300	620	450
30"	750	1130	1022.5	857	6.4	114.5	28×54	430	1500	920	300	620	450
32"	800	1194	1079.5	914.5	6.4	117.5	28×60.5	470	1565	950	350	690	500
36"	900	1315	1194	1022.5	6.4	124	28×66.5	510	1685	1010	350	690	500

## 过滤器 Strainer

**Utmost®**  
品质与艺术完美结合

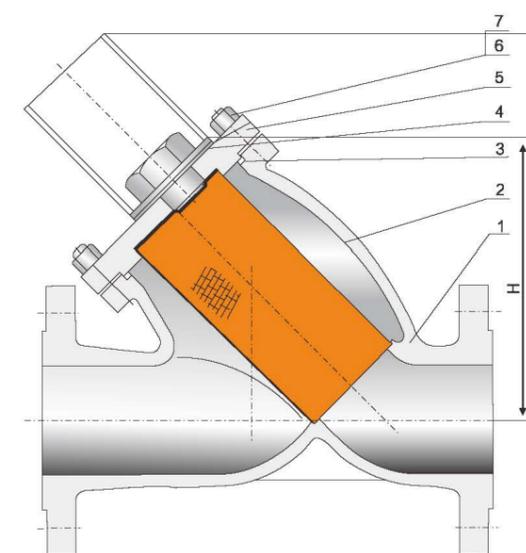
### ◆应用规范 Application Of Norms

1. 连接法兰标准按 JB/T 79-94
  2. 试验与检验标准按 GB13927-89
  3. 结构长度标准按厂标
1. Connecting flange standard by JB/T 79-94
  2. Test and test according to GB 13927-89
  3. The structure according to factory standard length standard



### ◆主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	ZG0Cr18Ni9	WCB
2	过滤网 Filter	304	304
3	垫片 Gasket	PTFE	304+石墨
4	排泄螺栓 Excretion bolt	0Cr18Ni9	35CrMoA
5	阀盖 Valve cover	ZG0Cr18Ni9	WCB
6	螺栓 Bolt	0Cr18Ni9	35CrMoA
7	螺母 Nut	0Cr18Ni9	45



### ◆主要连接尺寸 Main Connection Dimensions

PN1.6-2.5MPa

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	150	150	160	180	200	230	290	290	350	340	375	500	540	660
H	100	110	120	140	155	175	198	210	250	305	358	450	503	578
H1	130	180	200	220	240	255	270	295	344	422	485	602	710	815

法兰尺寸PN1.0MPa按GB4216.4-84标准, PN1.6MPa按GB/T4216.5-84标准, PN2.5MPa按GB9113.4-88标准  
Flange size PN1.0MPa refers to Standard GB4216.4-84 while PN1.6MPa according to GB/T4216.5-84 standard, PN2.5MPa according to GB9113.4-88 standard

# 篮式过滤器

Basket Type



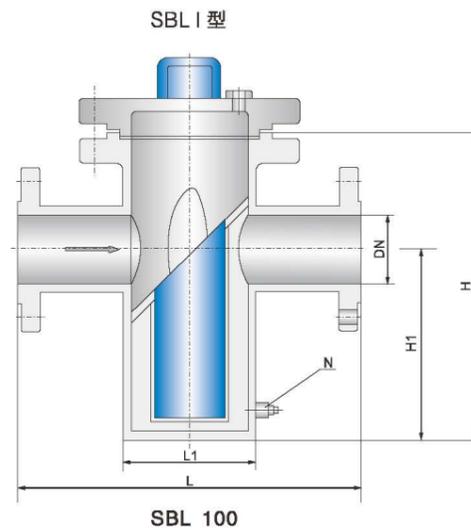
### 应用规范 Application Of Norms

1. 设计与制造标准按 HGJ532-91标准
  2. 结构长度标准按企业标准
  3. 连接法兰标准按 JB/T 79标准
  4. 试验与检验标准按 GB/T 13927标准
- 1.The design and manufacture of standard criteria according to HGJ532-91  
2.The structure according to enterprise standard  
3.The connection flange standard criteria by JB/T 79  
4.Test and test according to GB/T 13927 standard



### 主要零部件材料 Materials of main parts

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	CF8	WCB
2	上盖 Cover	CF8	WCB
3	过滤网 Filter	304SS	304
4	密封垫 Gasket	PTFE	304+石墨
5	排泄螺栓 Excretion bolt	304SS	35CrMoA



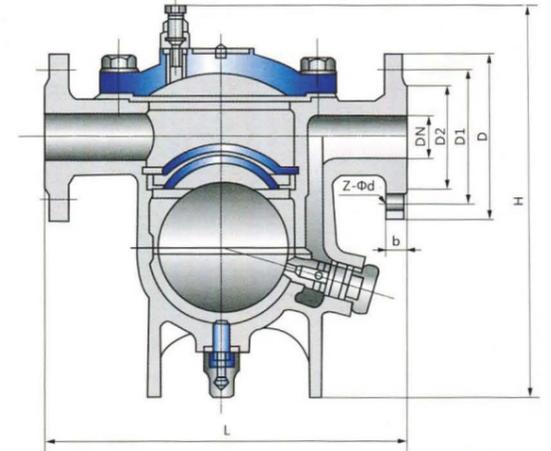
### 主要连接尺寸 Main Connection Dimensions

DN	25	32	40	50	65	80	100	125	150	200	250	300
L	180	200	260	260	330	340	400	480	500	560	660	750
L1	76	76	108	108	133	159	219	273	273	325	426	478
H	260	260	300	300	360	400	470	550	630	780	930	1200
H1	160	160	170	170	210	250	300	360	420	530	640	840
N	ZG3/4"						M20x1.5					

PN≤5.0MPa

# 自由浮球式蒸汽疏水阀

Free-ball Float Steam Trap Valve



### 主要连接尺寸 Main Connection Dimensions

公称通径 DN Nominal diameter	主要外形尺寸和连接尺寸(mm) Main external and connecting dimensions						重量WT(Kg)
	L	G	H	H1			
	CS11H-16C-C CS11H-25-C CS11H-40-C CS11H-16C-D CS11H-25-D CS11H-40-D						
15	170	1/2"	176	120			2.6
20	170	3/4"	176	120			2.8
25	170	1"	176	120			3.0
25	230	1"	215	158			5.2
32	230	1 1/4"	217	162			5.4
40	230	1 1/2"	221	166			5.6

公称通径 DN Nominal diameter	主要外形尺寸和连接尺寸(mm) Main external and connecting dimensions							重量WT(Kg)
	L	D	D1	D2	b	z-φd	H	
	CS41H-16C-C CS41H-25-C CS41H-40-C CS41H-16C-D CS41H-25-D CS41H-40-D CS41H-16C-E CS41H-25-E CS41H-40-E CS41H-16C-F CS41H-25-F CS41H-40-F							
15	195	95	65	45	14	4-φ14	195	10.5
20	195	105	75	55	14	4-φ14	200	11.2
25	215	115	85	65	14	4-φ14	225	11.5
25	270	115	85	65	14	4-φ14	245	10.5
32	270	135	100	78	16	4-φ18	250	11.2
40	280	145	110	85	16	4-φ18	290	11.5
40	280	145	110	85	16	4-φ18	290	10.5
50	410	160	125	100	16	4-φ18	380	11.2
65	410	180	145	120	18	4-φ18	380	11.5
50	430	165	125	102	20	4-φ18	467	72
65	430	185	145	122	20	4-φ18	475	74
80	460	200	160	132	22	8-φ18	492	77

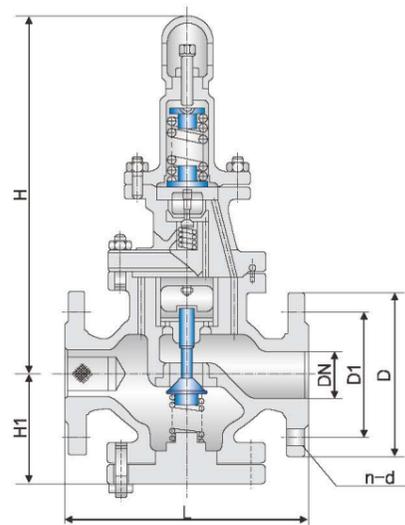
其他阀门 Other valves

其他阀门 Other valves

蒸汽减压阀  
Steam Pressure Reducing Valve



SALES NETWORK  
销售网络



◆ 主要性能规范 Main performance specification

公称压力 Nominal pressure (Mpa)		1.6	2.5	4.0	6.4
试验压力 Test pressure (Mpa)	壳体 shell	2.4	3.75	6.0	9.6
	密封 seal	1.76	2.75	4.4	7.04
进口压力 Inlet pressure		≤1.6	≤2.5	≤4.0	≤6.4
出口压力 Outlet pressure		0.05~1.1	≤0.1~1.6	0.4~2.5	0.5~3.5
适用温度(°C) Suitable temperature		≤300	≤350	≤400	≤425
适用介质 Applicable medium		蒸汽 Steam steam			

◆ 主要零部件材料 Materials of main parts

零件名称 Parts Name	材质 Material
阀体、上盖、下盖、帽盖 body, cover, under cover and cap	球墨铸铁、铸钢 Nodular cast iron, cast steel
主导盘、主阀座、导阀盘、导阀座 Lead plate, the main seat, Pilot valve plate, guide the seats	不锈钢 Stainless steel
弹簧 spring	铬钒钢、硅锰钢 Chrome vanadium steel, silicon manganese steel
活塞 piston	铜合金、不锈钢 Copper alloy, stainless steel

◆ 主要连接尺寸 Main External Dimensions

DN	L	H	H1	1.6MPa			2.5MPa			4.0MPa			6.4MPa		
				D	D1	n-d									
15	160/160	280	85	95	65	4-14	95	65	4-14	95	65	4-14	105	75	4-14
20	160/180	295	85	105	75	4-14	105	75	4-14	105	75	4-14	125	90	4-18
25	180/200	295	100	115	85	4-14	115	85	4-14	115	85	4-14	135	100	4-18
32	200/220	295	100	135	100	4-18	135	100	4-18	135	100	4-18	150	110	4-23
40	220/240	310	105	145	110	4-18	145	110	4-18	145	110	4-18	165	125	4-23
50	250/270	310	105	160	125	4-18	160	125	4-18	160	125	4-18	175	135	4-23
65	280/300	310	105	180	145	8-18	180	145	8-18	180	145	8-18	200	160	8-23
80	310/330	355	160	195	160	8-18	195	160	8-18	195	160	8-18	210	170	8-23
100	350/380	355	160	215	180	8-18	320	190	8-23	230	190	8-23	250	200	8-25
125	400/450	390	200	245	210	8-18	270	220	8-25	270	220	8-25	295	24	8-30
150	450/500	390	200	280	240	8-23	300	250	8-25	300	250	8-25	340	280	8-34
200	500/550	440	260	335	295	12-23	360	310	12-25	360	320	12-30	405	345	12-34
250	650	490	280	405	355	12-25	425	370	12-30	425	285	12-34	470	400	12-41
300	800	545	320	480	410	12-25	485	430	16-30	485	450	16-34	530	460	16-41
350	900	590	355	520	470	16-25	550	490	16-34	550	510	16-34	585	525	16-41
400	1000	635	390	580	525	16-30	610	550	16-34	610	585	16-41	670	585	16-48



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