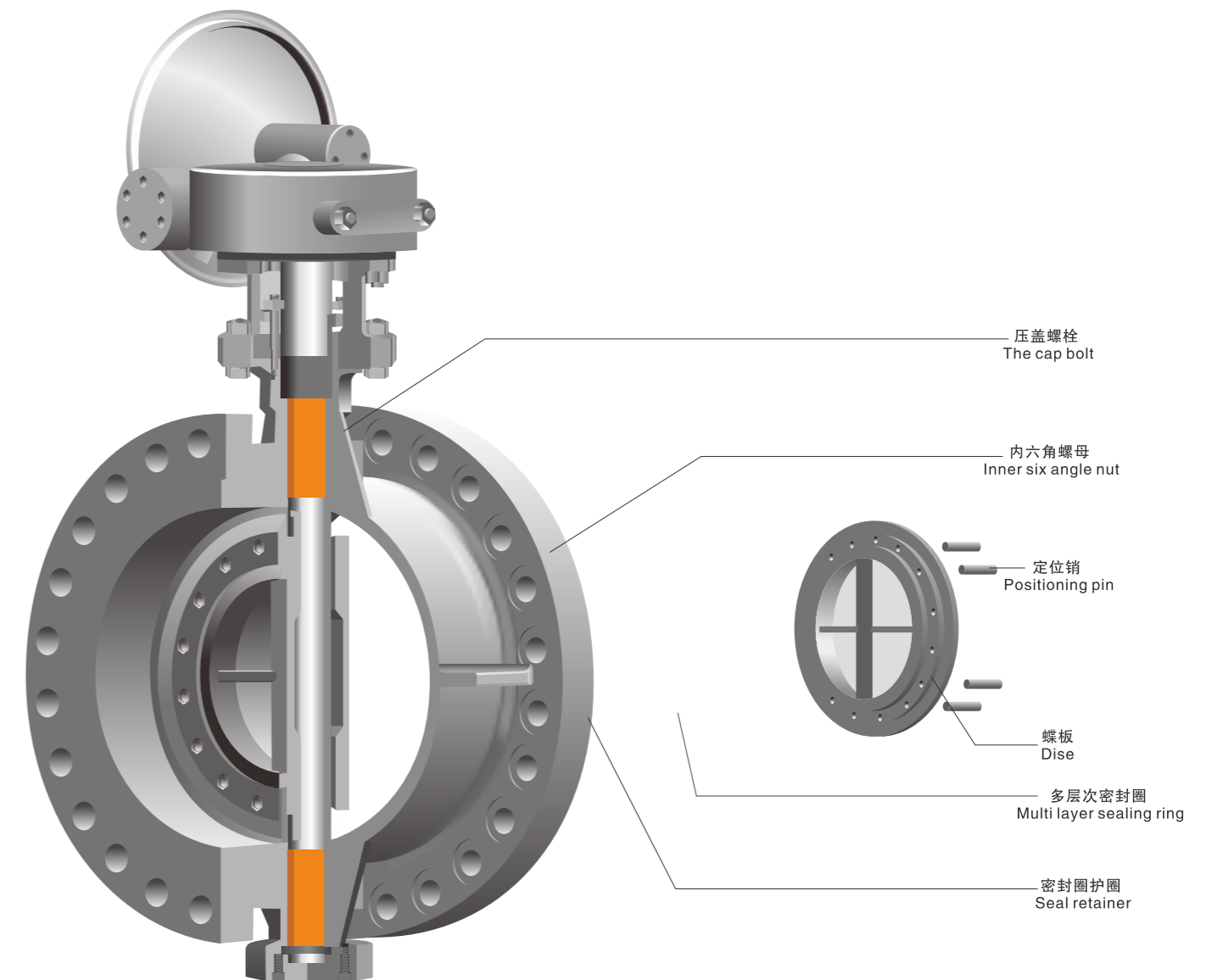
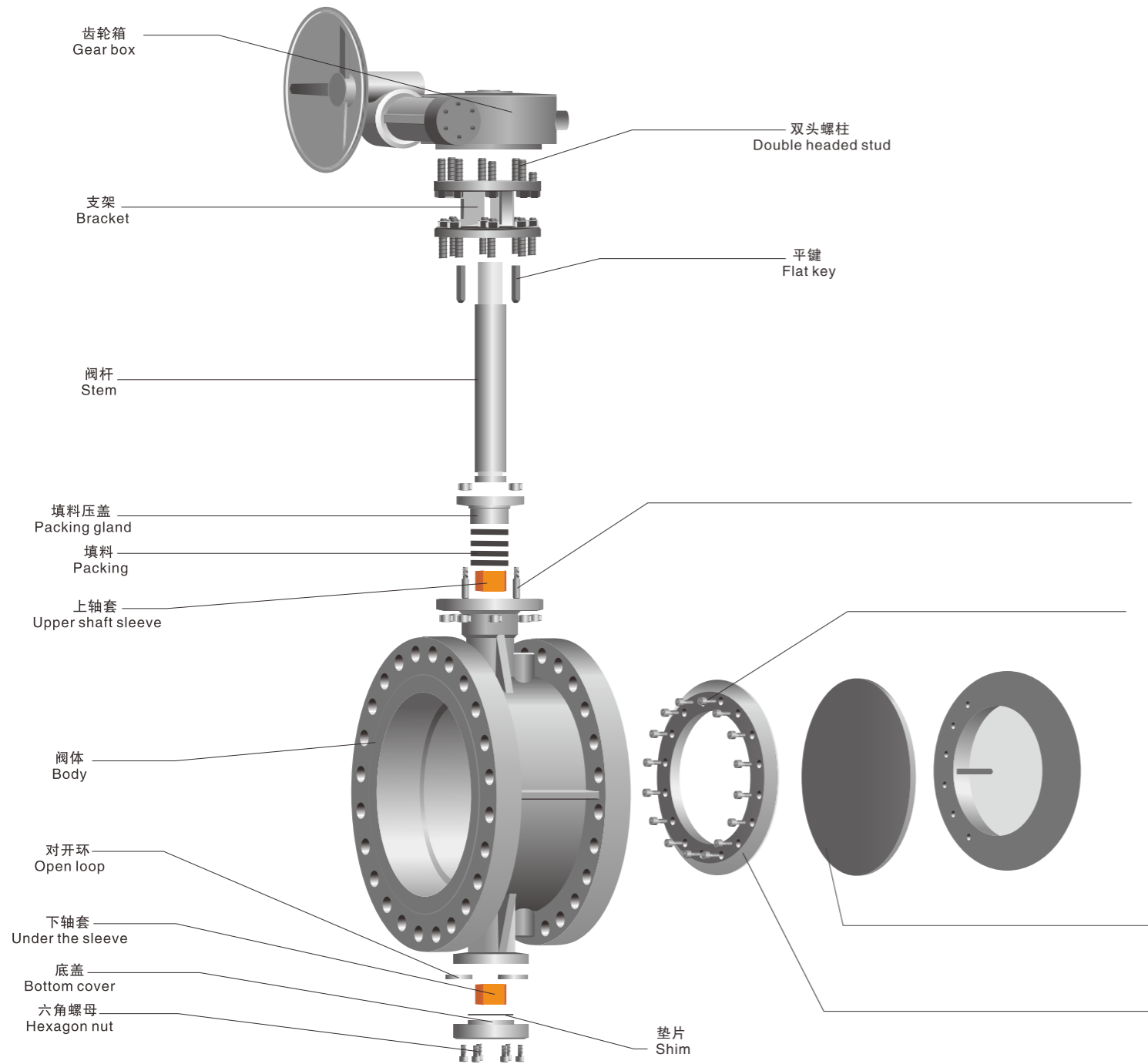


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蝶阀三维立体图与零件材料  
Butterfly valve 3D drawing and parts material



型号编制说明  
Model Order Instruction

蝶阀型号编制说明 Model Order Instruction



蝶阀流向截断方式 Butterfly Valve Flow Truncation Method

Ds	D
可任意流向截断介质的蝶阀(双向压) Butterfly valve with any flow direction to cut off the medium(Bi-directional pressure)	只能单一流向截断介质的蝶阀(单向压) Butterfly valve with one way flow direction to cut off the medium(One way pressure)

蝶阀驱动方式 Butterfly Valve Operator Type

3	6	7	9
手动减速机驱动 Manual Operator	气动装置驱动 Pneumatic Operator	液动装置驱动 Hydraulic Operator	电动装置驱动 Electrical Operator

蝶阀连接方式 Butterfly Valve Connection Type

4	6	7
法兰式 Flange Type	对焊式 Butt welding Type	对夹式 Wafer Type

蝶阀结构型式 Butterfly Valve Structure Type

1	2	3
中线结构 Midline structure	双偏心结构 Double eccentric structure	三偏心结构 Three eccentric structure

密封面材料代号 Sealing Surface Material Code

H	Y	YY	X	F	W
合金钢 HRC30-45度 Alloy steel HRC30-45 Degree	司太立合金 HRC40-60度 Stellite Alloy HRC40-60 Degree	硬碰硬 Metal to metal	橡胶 Rubber	氟塑料 Fluorine Plastics	本体材料 Body Material

蝶阀公称压力 Nominal Pressure of Butterfly Valve

1、用MPa的10倍值表示 10 times of MPa Marks
2、用磅级表示 Pound Level Marks

阀体材料代号 Body Material Code

阀体材料 Body material	碳钢 Carbon steel	铬镍合金钢 Chromium nickel alloy steel	铬镍钛钢 Chromium nickel steel	铬镍钼钛钢 Cr.ni.mo.ti steel
代号 Code	C	I	P	R

蝶阀公称通径 Nominal Diameter of Butterfly Valve

DN(mm)	inch	DN(mm)	inch	DN(mm)	inch
50	2	450	18	1600	64
65	2.5	500	20	1800	72
80	3	600	24	2000	80
100	4	700	28	2200	88
125	5	800	32	2400	96
150	6	900	36	2600	104
200	8	1000	40	2800	112
250	10	1200	48	3000	120
300	12	1400	56		
350	14				
400	16				

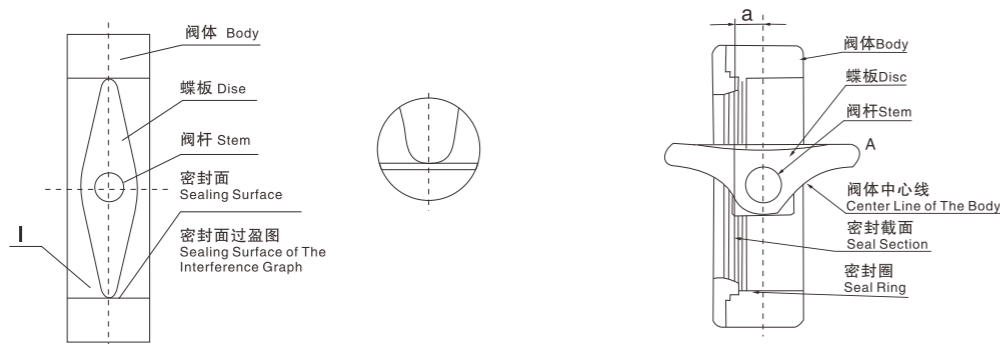
我公司生产的系列底阀的密封结构形式有以下几种：双偏心、三偏心、五偏心等各种结构类型蝶阀的密封原理简述如下：

The sealing structure of the series of bottom valves produced by our company has the following forms: double eccentric, three eccentric, five eccentric and other types of butterfly valve bee principle is briefly described as follows:

### 高性能对夹蝶阀 High performance wafer butterfly valve

高性能蝶阀系列是为了解决通用阀门难以适应的高低温、高压、真空等工况而开发的高性能蝶阀。具有独特的自密封和双偏心结构,另外通过对三种密封材料的选择,在广泛的使用条件下保证高性能。可以适用于球阀或闸阀无法封闭的腐蚀性泥浆乃至高温蒸气等广泛的流体。

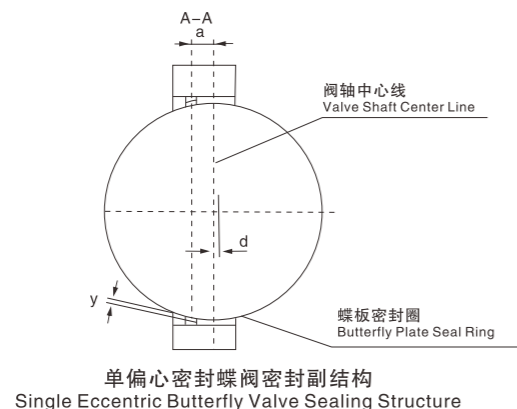
series high performance butterfly valve are designed to solve common valve is difficult to adapt to the high and low temperature, high pressure, vacuum condition and the development of high performance butterfly valve, etc. Has a unique self sealing and double eccentric structure, and through to the three kinds of sealing material choice, under the condition of the widely used to ensure high performance. Can be applied to mud ball valve and gate valve cannot be closed for corrosion and high temperature steam, etc. A wide range of fluid.



### 单偏心密封蝶阀的密封原理 Sealing Principle Of Single Eccentric Seal Butterfly Valve

由于蝶板的回转中心(即阀轴中心)与蝶板密封截面按a偏心设计,使得蝶阀在开启过程中,蝶板密封面逐渐脱离阀座密封面,蝶板转动至15°-25°时,蝶板密封面完全脱离阀座密封,完全开启时,两密封面之间形成间隙,从而使得蝶阀在启闭过程中,两密封面之间相对机械磨损及挤压大为降低,从而保证了蝶阀的密封原理。但由于整个开关过程中蝶板与阀座的刮擦现象并未消失、在应用范围上和同心蝶阀大同小异、故采用不多。

Because of the rotation center of the disc (i.e. valve shaft center) and the butterfly plate sealing section is designed according to a eccentric, making the valve in the opening process, the disc sealing surface gradually separates from the valve seat sealing surface, once the butterfly plate rotates to 15° - 25° degrees, the disc sealing surface separates completely from the valve seat seal once fully open, it forms a gap between the two sealing surface, so that the valve in the opening and closing process, the relative mechanical wear and extrusion between the sealing surface is greatly reduced, so as to ensure the sealing of butterfly valve. However as the scratch between the disc and seat doesn't disappear during the whole process of open and close, they are almost similar to concentric butterfly valves in the area of application, this is why they have not been popularly used.

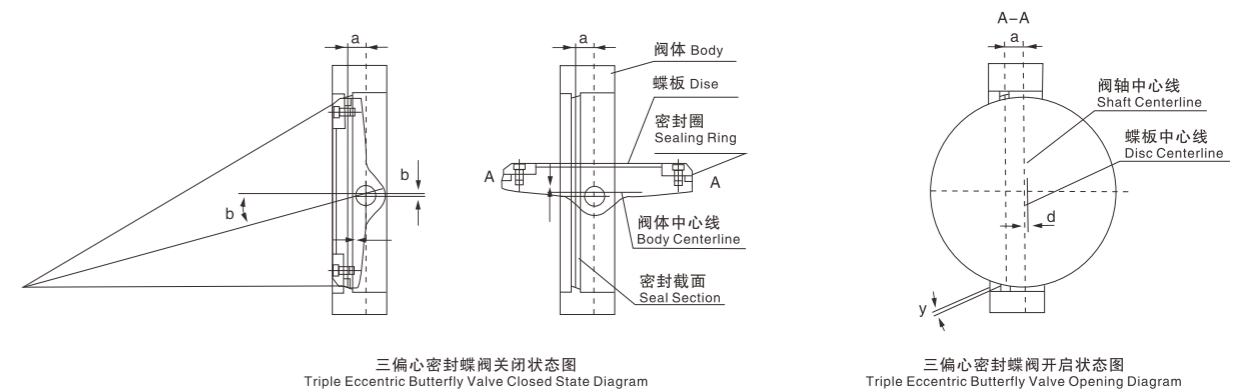


三偏心由于在双偏心蝶阀的基础上将阀座中心线再与阀体中心线形成一个β角偏置,使得蝶阀在启闭过程中,蝶板的密封面在开启瞬间立即脱离阀座密封面,而在关闭瞬间才会接触并压紧阀座密封面。当完全开启时,两密封面之间形成一个与双偏心密封蝶阀相同间隙Y,该类蝶阀的设计,彻底消除了两密封面之间的机械磨损和擦伤,使蝶阀的密封性能和使用寿命得到大大提高。阀门关闭时,密封圈受阀体密封面跟蝶板的挤压,产生了两个方向的弹性变形。密封面在长轴方向上受到了向外的张力,在短轴方向上受到向内的压应力,长短轴产生不同方向的弹性形变。从而使阀门密封面间的密封力逐渐达到最大值。

这一独特的偏心组合,即利用凸轮效应,又完全消除了摩擦,从而实现阀门90°行程中,阀座与蝶板上的密封圈之间无摩擦,去除了磨损和泄漏的可能。

A "β" eccentric is formed up between the centerline of seat and the centerline of body on the basis of double eccentric butterfly valve, making disc sealing face immediately disengaged from seat sealing face upon the opening or closing of butterfly valve, and in close contact with the seat sealing face upon closing. When fully opened, a gap "Y", which is same as that in double eccentric sealing butterfly valve, is formed upon the two sealing faces. This type design of butterfly valves has thoroughly eliminated the mechanical wear and scratch between the two sealing faces, making the sealing performance and service life of butterfly valves greatly improved. When the valve is closed, with sealing ring under the extrusion of body sealing face and disc, two upwards elastic deformations are produced. The sealing face is fallen under outward tension at long shaft and inward compressive stress at short shaft. The long and short shafts produce elastic deformation of different directions, thus to maximize the sealing force between the sealing faces of valves.

This distinctive eccentric combination not only uses cam effect, but also eliminates friction completely, thus to ensure no friction between seat and sealing ring on disc during 90° stroke.

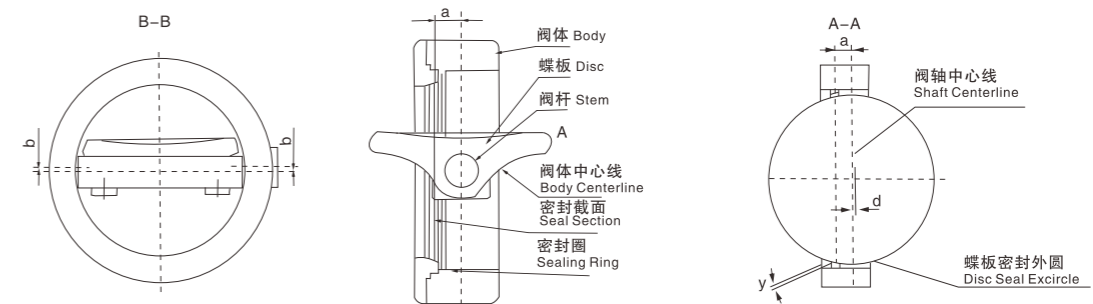


三偏心密封蝶阀密封副结构  
Triple Eccentric Butterfly Valve Sealing Pair Structure

### 变偏心密封的密封原理 The Sealing Principle of Variable Eccentric Sealing

变偏心蝶阀的独特之处在于安装蝶板的阀杆轴是一个三段轴式结构,此三段轴式阀杆两段轴段同心,而中间段轴中心线与两端轴线偏离一个中心距,蝶板就安装在中间轴段上。这样的偏心结构使得蝶板在全开位置时成为双偏心态,而在蝶板转动到关闭位置时则成为单偏心态。由于偏心轴的作用,在接近关闭时,蝶板向阀座的密封锥面内移进一个距离,蝶板与阀座的密封面相吻合达到可靠的密封性能,当使用一定周期时阀座密封面磨损后,可以调整驱动机构,使蝶板的关闭位置,驱前若干角度,这样可以恢复到新的密封状态。

The distinctive feature of variable eccentric butterfly valve is that the shaft where disc is mounted with is a three-segment eccentric shaft. The two ends of the three-segment shaft are concentric, while the centerline of the middle segment is deviated from the axial lines of the two ends by a center-to-center distance. Disc is just mounted on the middle segment. This eccentric structure forms up a double eccentric shape when disc is completely opened, and a single eccentric shape when disc is turned to be closed. Under the force of eccentric shaft, when tending to be closed, disc will move somewhat toward the conical sealing surface of the seat, and then engaged to perform dependable sealing. When seat sealing face is abraded after a period of service, adjust the driving mechanism to make the close position of disc forward for some degrees, in this way to set up a new sealing state.



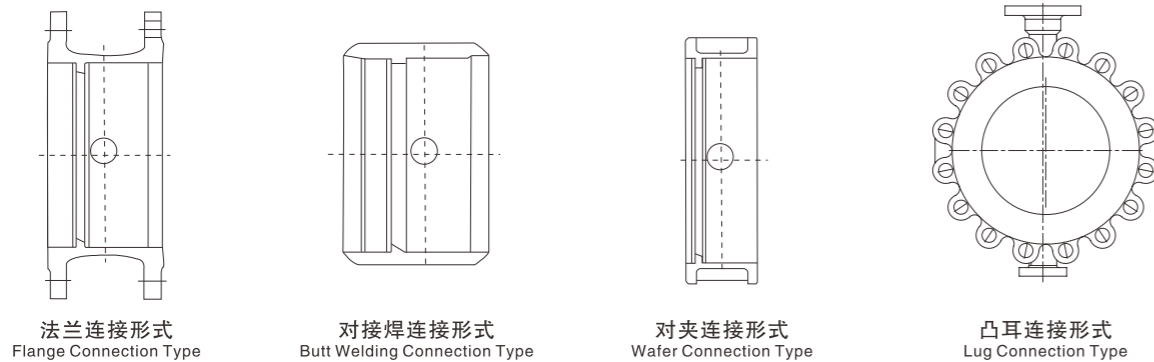
双偏心密封蝶阀密封副结构  
Double Eccentric Butterfly Valve Seal Pair Structure

蝶阀是用来打开和关闭管道内介质流通或调节管道内介质流量。它们主要结构及特点如下：  
The butterfly valve is used to open and close the medium circulation or regulate the medium flow in the pipeline.

○ 主要结构特点 The Main Structure Features

- 1、结构简单、体积小、重量轻、安装尺寸小。根据阀体连接形式可分对夹式(包括凸耳对夹式)、法兰连接和对焊连接三种基本连接形式。
- 2、密封结构形式有多层次硬密封、整板式硬密封和弹性硬密封三种，可用于各种不同工况，且密封性能好，使用寿命长。
  - 1)多层次硬密封和整板式硬密封蝶阀(分别见下图和左图)，全部采用了三偏心、锥面密封结构形式，密封副具有越关越紧的功能，并能有效清除阀座上的结垢，大锥角设计能承受600℃的高温。本系列蝶阀压力等级达到Class600。
  - 2)弹性硬密封结构(见上图)采用J型金属密封圈结构，适用于双偏心结构的蝶阀，压力等级<Class300，具有优良的密封性，寿命长、易加工制造。
- 3)、本系列蝶阀所有的密封部件均采用了防火设计，即使着火后还能保证各个位置的密封性能。
- 4)、蝶阀在完全开启的情况下流阻较小，部分开启的情况下能进行灵敏的流量控制。
- 5)、驱动力矩小，操作简便、迅速。

- 1.Simple structure, small volume, light weight and small size for installation. According to the connection type, there are three kinds of basic connection: wafer type (including lug wafer type), flange type and butt welding type.
2. The sealing structure has three kinds including multi-layer metal sealed, wholly metal Metal Sealed and the elastic Metal Sealed, used for a variety of different conditions, with good sealing performance and long service life.
  - 1) multi-layer hard seal and the whole board (see below are hard sealing butterfly valve, and left) all the three eccentric, cone sealing structure, sealing with more tightening function, and can effectively remove fouling on the seat, the design of high temperature can withstand 600 degrees wide angle. The pressure level of this series of butterfly valves reaches Class600.
  - 2) Flexible metal seal structure (see above picture) adopts J type metal seal structure, which is suitable for double eccentric butterfly valve, pressure rating <Class 300 and characterized by excellent sealing, long service life, easy processing and manufacturing.
- 3)All the sealing parts of this series butterfly valve are used with fire protection design, ensuring the sealing performance of each position even after the fire.
- 4) Small flow resistance as the butterfly valve in the fully open condition, sensitive control of the flow as valve in partially open condition .
- 5) The torque force is small, operating easily and fast.



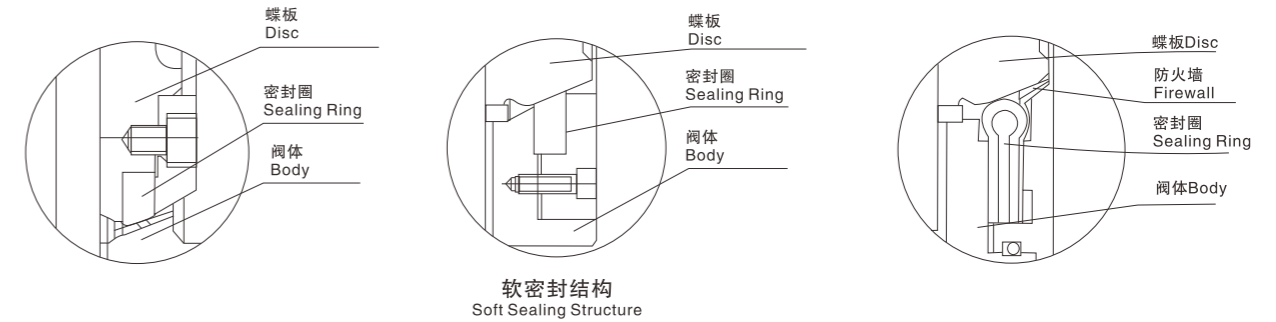
○ 1)软密封结构(见下图)Soft Sealing Structure (See Bellow Picture)

适用单偏心和双偏心结构的蝶阀，压力等级≤Class 600。(中线密封结构适用压力等级≤Class 150)密封圈(材料为PTFE)放置在阀体上具有以下特点：

- A)不需要使用附加的密封圈或金属支撑圈即可可靠密封。
- B)可保持双向的无泄漏的密封。
- C)维修量少，寿命长。

It is applicable for single and double eccentric butterfly valve, the pressure rating≤Class 600. (Centerline sealing structure applied to pressure ≤ Class 150), seal material (PTFE) placed on the body has the following characteristics:

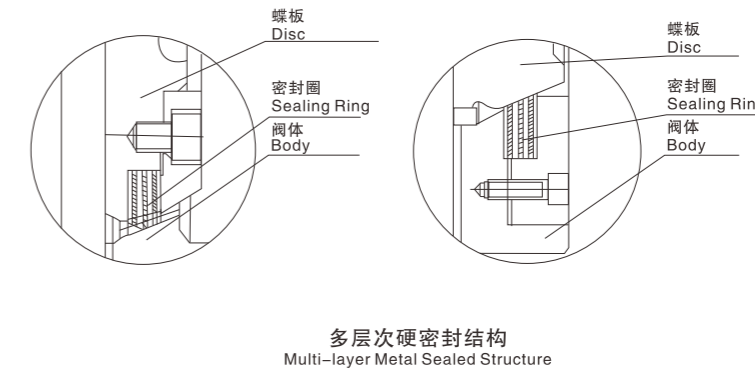
- A) Don't require additional sealing ring or metal support ring, with reliably sealed.
- B) Maintaining bi-directional sealing with zero leakage.
- C) Less repair, long service life.



○ 2)多层次硬密封结构(见下图) The Multi-Layer Metal Sealed Structure (See Bellow Picture)

多层次硬密封结构，适用于单偏心、双偏心和三偏心结构的蝶阀，压力等级≤Class 600，其中三偏心蝶阀可保持双向无泄漏。多层次密封圈可采用不锈钢和非金属材料复合而成，其中非金属材料根据使用工矿选用柔性石墨、PTFE或非石棉材料等。

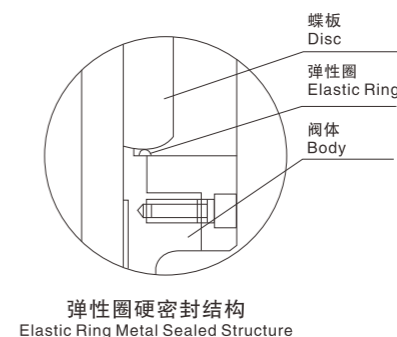
Multi-layer metal sealed structure, is suitable for single eccentric butterfly valves, double eccentric butterfly valves and triple eccentric butterfly valves, with pressure rating≤Class 600. Besides, triple eccentric butterfly valves can be bi-directional zero leakage. The multilayer sealing ring can be made of stainless steel and non-metal material, which non-metal material can be flexible graphite, PTFE or non asbestos materials etc.



○ 3)弹性圈硬密封结构(见下图) Elastic Ring Metal Sealed Structure

采用J型金属密封圈结构，适用于单偏心双偏心结构的蝶阀，压力等级<Class300。此结构本身具有防火结构，可适用温度变化较大的场合，具有优良的密封性，寿命长、易加工制造。

Using J type metal sealed structure, is suitable for single eccentric butterfly valve and double eccentric butterfly valve, the pressure class rating <Class300. This structure has fireproof structure, can be suitable for large temperature changes, with excellent sealing performance, long service life, easy for processing and manufacturing.



○用途及特点 Purpose and Characteristic

硬密封蝶阀系列产品，是我公司新开发的长寿命、节能型蝶阀。产品符合国家标准JB/T8527-2015(金属密封蝶阀)和GB/T13927-2008(通用阀门压力试验)标准及阀门其它相关标准的规定。

本产品由阀体、蝶板、密封圈、传动机构等主要部件组成。其结构采用二维或三维偏心原理设计，硬软多层次密封兼容的加工新工艺，使蝶阀在运行工作时，减少其扭矩力，达到省力、节能之功能。从而确保蝶阀整体的抗腐蚀、耐高温、抗磨损的可能性。其主要性能特点是：

- 1、结构独特、型小轻便、操作灵活、省力、方便；
- 2、密封可靠，可满足各级标准；
- 3、流量特性好，且具有调节功能；
- 4、采用偏心原理，使密封面近似零磨损，延长了阀门使用寿命；
- 5、应用范围广，可用于水、蒸气、油品、空气、煤气等介质；
- 6、适用不同温度及15.0MPa以下的压力等级、耐腐蚀等各种工况之管线。

Hard seal butterfly valve series products, is my company's new development of long-life, energy-saving butterfly valve. Products comply with national standards JB/T8527-2015 (metal sealed butterfly valve) and GB/T13927-2008 (general valve pressure test) standards and other relevant standards of the valve.

This product is composed of main parts, such as valve body, butterfly plate, sealing ring, transmission mechanism and so on. The structure of the two-dimensional or three-dimensional eccentric principle design, a new machining process of hard and soft sealing multi-level compatible, butterfly valve in the operation, reduce the torque, achieving the function of saving, energy saving. So as to ensure the overall corrosion resistance, high temperature and wear resistance of the butterfly valve. Its main performance characteristics are:

- 1, Unique structure, small size, light, flexible operation, labor-saving and convenient;
- 2, Sealed reliable, can meet all levels of standards;
- 3, The flow characteristic is good, and has the adjustment function;
- 4, The use of eccentric principle, so that the close cover of zero wear and tear, to extend the service life of the valve;
- 5, Wide range of applications, can be used in water, steam, oil, air, gas and other media;
- 6, Applicable to different temperature and 15.0MPa below the pressure level, corrosion resistance and other conditions of the pipeline.

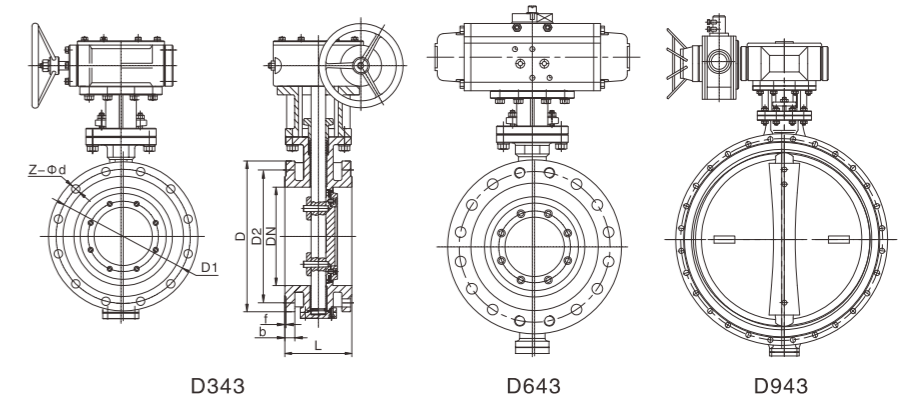
○用途 Purpose

本蝶阀适用于食品、医药、石油化工、电厂、钢厂、工业环保水处理及高层建筑、给排水管道上作调节流量和截断流体最佳装置。

Our butterfly valve can be applied to food, medicine, petroleum and chemical industry, electric plant, steel plant, industrial environmental protection water treatment and high building water supply and drainage etc, being the best device for isolating or regulating flow in pipeline.

○主要性能参数及采用标准 Main Performance Parameters and Standard

设计标准 Design Standard	JB/T8527-2015							
法兰连接尺寸 Flange Connection Dimension	GB/T9113-2010							
结构长度 Face to Face Length	GB/T12221-2005							
压力试验 Pressure Test	GB/T13927-2008 JB/T9092-99							
公称通径 Nominal Diameter	50~2000							
公称压力 Nominal Pressure	1.0	1.6	2.5	4.0	6.3	10.0	15.0	
试验压力 Test Pressure	强度试验 Shell Test	1.5	2.4	3.75	6.0	9.5	14.4	20.9
	密封试验 Sealing Test	1.1	1.76	2.75	4.4	7.0	10.6	15.3
	气密封试验 Air Sealing Test	0.5~0.7MPa						
适用介质 Applicable Media	水、油品、蒸汽、煤气、酸、碱等 Water, Oil, Steam, Gas, Acid, Alkali, Etc.							
适用温度 Applicable Temperature	-100℃~800℃							



○主要技术参数 Main Technology Parameter

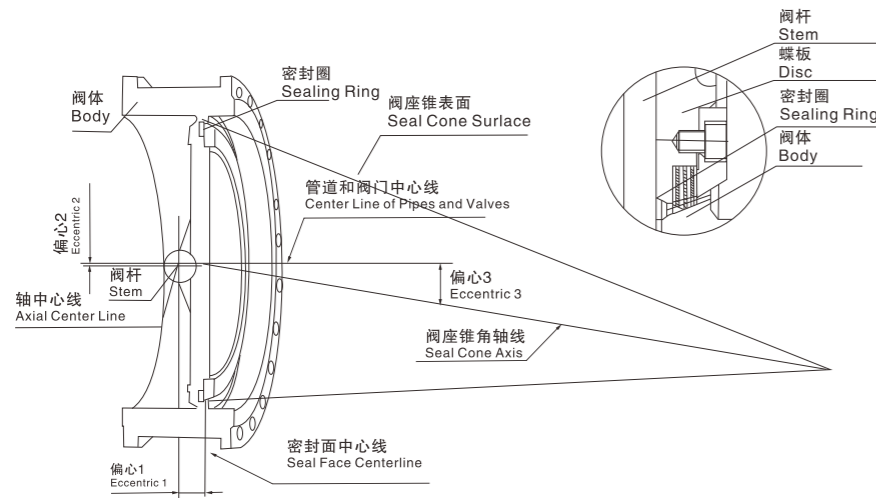
公称通径 Nominal Diameter	公称压力 Nominal Pressure	试验压力(MPa) Test Pressure			泄漏率 Leakage	适用温度 Applicable Temperature	适用介质 Applicable Media	驱动形式 Operation
		强度试验 Shell Test	密封试验 Seal Test	气密封试验 Air Sealing Test				
50 ~ 2000	0.6	0.9	0.66	0.6	<math>0.1 \times DN \text{mm}^3/\text{s}</math> (符合GB/T13927-2008标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

○主要零件材质 Material for Main Parts

零件名称 Parts Name	材料 Material
阀体 Body	WCB, CF8, CF3, CF3M, CF8M, 2205, 2507, WC6, LCB, C95800等
蝶板 Disc	WCB, CF8, CF3, CF3M, CF8M, 2205, 2507, WC6, LCB, C95800等
密封圈 Sealing Ring	SS304+Graphite, SS304+STL, SS316+Graphite, SS316L+Graphite, SS316L+STL, S31803+Graphite, S31803+STL PTFE, RPTFE, PPL, EPDM, NBR等
阀杆 Stem	F6a, F304, F304L, F316, F316L, F51, F53, Monel K400/500, 17-4PH等
轴套 Bushing	SF-1, SF-1B, SS304, SS316, SS304+PTFE, SS316+PTFE等
填料 Packing	Graphite, PTFE, PPL等



美标三偏心蝶阀几何图 American Standard Butterfly Valve Geometric Graph



第一个偏心轴偏离密封面中心线  
第二个偏心轴偏离管路及阀门中心线  
第三个其独特的偏心阀座斜锥角与管路中心的夹角，这样，使得阀座与密封圈在门整个开关过程中完全脱离。这种结构即利用了凸轮效应。又完全消除了摩擦，去除了磨损和泄露的可能。

Firstly: The eccentric shaft deflected from the center line of sealing surface.  
Secondly: The eccentric shaft deflected from pipe and center line of valve.  
Thirdly: The unique design of eccentric seat oblique cone and the angle of centerline, makes the seat and sealing ring completely out from the door during the open and close. This structure adopted the cam effect, completely eliminating the friction, avoiding the possibility of wear and leakage.

我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。  
Our triple eccentric butterfly valve realizes zero leakage relying on the composite stainless steel sealing ring installed in the disc.

零泄漏是通过蝶板上密封圈的弹性来实现的，该密封圈的弹性是通过其径向的压缩和柔动生产的。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关断，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 is produced by its radial compression and flexibility. The contact surface between the sealing 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 elasticity of sealing makes the load on the seat even, thus to perform closest cut off by the lowest torque. The elasticity produced by the torque makes the valve closely cut off, regardless of the flow direction or pressure of medium.



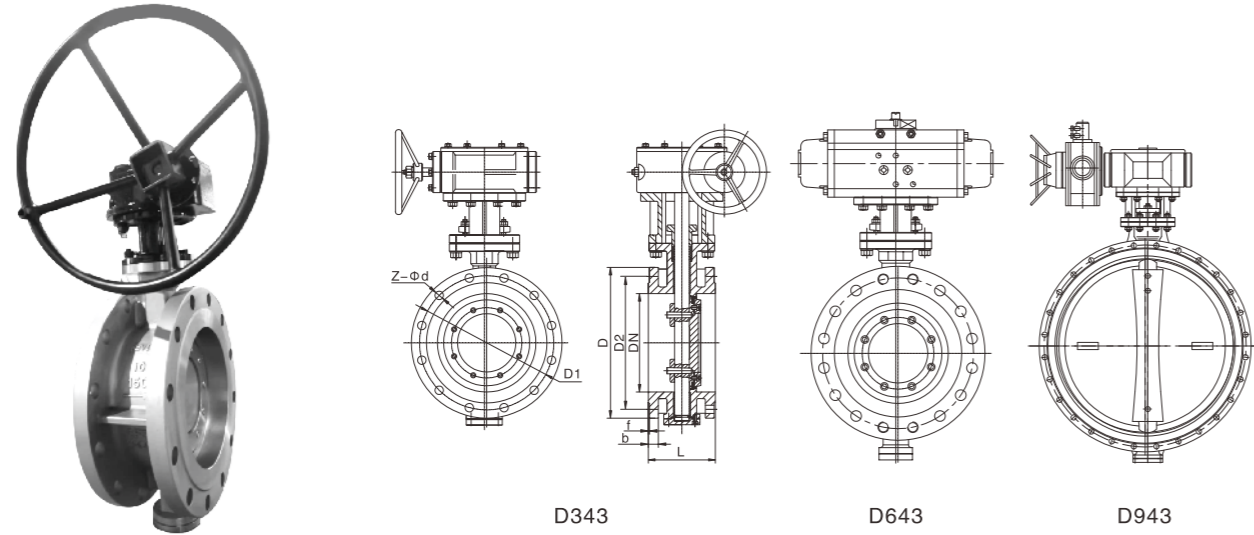
用途及特点 Purpose and Characteristic

复合金属密封圈的弹性特性使得阀门具有零泄漏性能。  
扭矩密封确保阀门持续的零泄漏特性。  
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的，它消除了90°开关旋转中阀座与密封圈之间的摩擦。  
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。  
一体式铸造(板焊)阀体，结构长度符合ISO5752、ASME16.10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。  
阀杆防吹出设计安全可靠，完全符合API609的要求。  
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。  
美标三偏心蝶阀的阀杆采用一根通轴式结构，阀杆与蝶阀连接采用键或销键组合。

Elastic property of composite metal sealing ring performs zero leakage.  
The torque seal ensures constant zero leakage characteristics of the valve.  
The design of right-angled rotation with zero friction is implemented by the distinctive triple eccentric principle; it eliminates the friction between the seat and sealing ring in 90° rotation.  
STL one-piece hard-surface seat may adapt to many working conditions, which is featured with long service life and easy maintenance.  
One-piece cast (sheet welded) body, face to face dimensions conforming to ISO5752, ASME16.10 and API609, replacement of high performance butterfly valves and other types of valves, easy and flexible installation, intrinsic fireproof property thanks to all metal structure and leak tight performance.  
Anti-blowout stem designs for high dependability, completely conforming to API6109.  
The valve position indicator on the stem and the flange mounted at the top of are in the favor of the indication of disc position.  
The stem of American standard triple eccentric butterfly valve, is a shaft structure, stem and disc are connected by key or pin-key combination.

采用标准 Adoption Standard

设计标准 Design Standard	API 609-2016				
法兰连接尺寸 Flange Connection Dimension	ASME B 16.5-2013 ASME B 16.47-2011				
试验和检验 Test and Inspection	API 598-2016				
温压等级 Pressure-Temperature Rate	ASME B 16.34-2013				
结构长度 Face to Face Dimension	API609-2016.ISO5752-1982				
防火制造 Fire Safe	API 607-2010				
压力等级 Pressure Rating	150LB	300LB	600LB	900LB	
常温试验压力(Mpa) Test Pressure at Room Temperature	壳体试验 Shell Test	2.93	7.58	15.0	20.9
	高压密封 High Pressure Seal Test	2.07	5.52	11.03	15.3
	低压密封 Low Pressure Seal Test	0.6	0.6	0.6	0.6
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 Media (Different Media Use Different Materials)				
适用温度 Applicable Temperature	-100℃~800℃(不同的工况温度选用不同的材质) (Different Raw Material for Different Work Temperature)				



主要技术参数 Main Technology Parameter

公称压力 Nominal Pressure (MPa)	试验压力(MPa) Test Pressure (MPa)			适用温度 Applicable Temperature	适用介质 Applicable Media	驱动形式 Operation
	壳体试验 Shell Test	高压密封 High Pressure Seal	低压密封 Low Pressure Seal			
Class150	2.93	2.07	0.6	碳钢 Carbon steel: -29°C ~ 425°C 不锈钢 Stainless Steel: -100°C ~ 800°C	空气、水、蒸气、 煤气、油品以及酸、 碱、盐带有弱腐蚀性 介质等 Air, Water, Steam Coal Gas, Oil and Acid, Alkali, Salt Corrosive Medium and so on.	蜗杆蜗轮传动、 气传动、 电传动、液动传动 Lever Operator, Worm Gear Operator, Pneumatic Operator, Electric Operator, Hydraulic transmission
Class300	7.58	5.52	0.6			
Class600	15.0	11.03	0.6			
Class900	20.9	15.3	0.6			

主要零件材质 Material for Main Parts

零件名称 Parts Name	材料 Material
阀体 Body	WCB, CF8, CF3, CF3M, CF8M, 2205, 2507, WC6, LCB, C95800等
蝶板 Disc	WCB, CF8, CF3, CF3M, CF8M, 2205, 2507, WC6, LCB, C95800等
密封圈 Sealing Ring	SS304+Graphite, SS304+STL, SS316+Graphite, SS316L+Graphite, SS316L+STL, S31803+Graphite, S31803+STL PTFE, RPTFE, PPL, EPDM, NBR等
阀杆 Stem	F6a, F304, F304L, F316, F316L, F51, F53, Monel K400/500, 17-4PH等
轴套 Bushing	SF-1, SF-1B, SS304, SS316, SS304+PTFE, SS316+PTFE等
填料 Packing	Graphite, PTFE, PPL等

主要连接尺寸 Main Connection Dimensions

ASME 16.5-2013 单位: Unit: mm

通径 Diameter	结构长度 Structural length	150Lb						300Lb						600Lb							
		Inch	mm	L1	L2	D	D1	D2	b	f	Z-Φd	D	D1	D2	b	f	Z-Φd	D	D1	D2	b
2	50	108	150	150	120.7	93.7	14.3	2	4-Φ19	165	127	93.7	20.7	2	8-Φ19	165	127	92.1	32.4	7	8-Φ19
2.5	65	112	170	180	139.7	106.4	15.9	2	4-Φ19	190	149.2	106.4	23.9	2	8-Φ22	190	149.2	104.8	35.6	7	8-Φ22
3	80	114	180	190	152.4	128.6	17.5	2	4-Φ19	210	168.3	128.6	27	2	8-Φ22	210	168.3	127	38.8	7	8-Φ22
4	100	127	190	230	190.5	158.8	22.3	2	8-Φ19	255	200	158.8	30.2	2	8-Φ22	275	215.9	157.2	45.1	7	8-Φ25
5	125	140	200	255	215.9	187.3	22.3	2	8-Φ22	280	235	187.3	33.4	2	8-Φ22	330	266.7	185.7	51.5	7	8-Φ29
6	150	140	210	280	241.3	217.5	23.9	2	8-Φ22	320	269.9	217.5	35	2	12-Φ22	355	292.1	215.9	54.7	7	12-Φ29
8	200	152	230	345	298.5	271.5	27	2	8-Φ22	380	330.2	271.5	39.7	2	12-Φ26	420	349.2	269.9	62.6	7	12-Φ32
10	250	165	250	405	362	325.4	28.6	2	12-Φ26	445	387.4	325.4	46.1	2	16-Φ29	510	431.8	323.8	70.5	7	16-Φ35
12	300	178	270	485	431.8	381	30.2	2	12-Φ26	520	450.8	382.6	49.3	2	16-Φ32	560	489	381	73.7	7	20-Φ35
14	350	190	290	535	476.3	414.3	33.4	2	12-Φ29	585	514.4	414.3	52.4	2	20-Φ32	605	527	421.8	76.9	7	20-Φ38
16	400	216	310	595	539.8	471.5	35	2	16-Φ29	650	571.5	471.5	55.6	2	20-Φ35	685	603.2	469.9	83.2	7	20-Φ41
18	450	222	330	635	577.9	535	38.1	2	16-Φ32	710	628.6	535	58.8	2	24-Φ35	745	654	533.4	89.6	7	20-Φ44
20	500	229	350	700	635	585.8	41.3	2	20-Φ32	775	685.8	585.8	62	2	24-Φ35	815	723.9	584.2	95.9	7	24-Φ44
24	600	267	390	815	749.3	693.7	46.1	2	20-Φ35	915	812.8	693.7	68.3	2	24-Φ42	940	838.2	692.2	108.6	7	24-Φ51

主要连接尺寸 Main Connection Dimensions

A系列 ASME B 16.47-2011 单位: Unit: mm

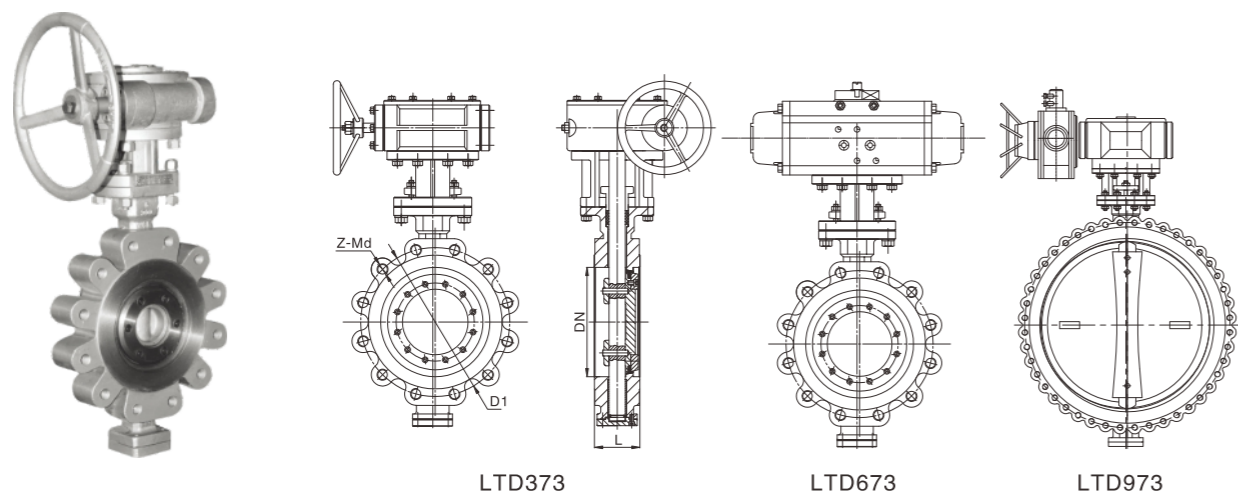
通径 Diameter	结构长度 Structural length	150Lb						300Lb						600Lb							
		Inch	mm	L1	L2	D	D1	D2	b	f	Z-Φd	D	D1	D2	b	f	Z-Φd	D	D1	D2	b
26	650	292	410	870	806.4	749	66.7	2	24-Φ35	970	876.3	749	79.8	2	28-Φ45	1015	914.4	749	115	7	28-Φ51
28	700	292	430	925	863.6	800	69.9	2	28-Φ35	1035	939.8	800	86.2	2	28-Φ45	1075	965.2	800	118.2	7	28-Φ54
30	750	318	450	985	914.4	857	73.1	2	28-Φ35	1090	997	857	92.5	2	28-Φ48	1130	1022.4	857	121.3	7	28-Φ54
32	800	318	470	1060	977.9	914	79.4	2	28-Φ41	1150	1054.1	914	98.9	2	28-Φ51	1195	1079.5	914	124.5	7	28-Φ61
36	900	330	510	1170	1085.8	1022	88.9	2	32-Φ41	1270	1168.4	1022	105.2	2	32-Φ54	1315	1193.8	1022	130.9	7	28-Φ67
40	1000	410	550	1290	1200.2	1124	88.9	2	36-Φ41	1240	1155.7	1086	114.8	2	32-Φ45	1320	1212.8	1111	165.8	7	32-Φ61
44	1100	410	550	1405	1314.4	1245	100.1	2	40-Φ41	1355	1263.6	1194	124.3	2	32-Φ48	1455	1333.5	1226	180.1	7	32-Φ67
48	1200	470	630	1510	1422.4	1359	106.4	2	44-Φ41	1465	1371.6	1302	133.8	2	32-Φ51	1595	1460.5	1334	196	7	32-Φ73
52	1300	470	630	1625	1536.7	1461	114.3	2	44-Φ48	1580	1479.6	1410	144.9	2	32-Φ54	1720	1574.8	1435	210.2	7	32-Φ80
56	1400	530	710	1745	1651	1575	122.3	2	48-Φ48	1710	1600.2	1518	154.4	2	28-Φ61	1855	1695.4	1543	224.5	7	32-Φ86
60	1500	530	710	1855	1759	1676	130.2	2	52-Φ48	1810	1701.8	1626	164	2	32-Φ61	1995	1822.4	1657	240.4	7	28-Φ92

主要连接尺寸 Main Connection Dimensions

B系列 ASME B 16.47-2011 单位: Unit: mm

通径 Diameter	结构长度 Structural length	150Lb						300Lb						600Lb								
		Inch	mm	L1	L2	D	D1	D2	b	f	Z-Φd	D	D1	D2	b	f	Z-Φd	D	D1	D2	b	f
26	650	292	410	785	744.5	711	39.8	2	36-Φ22	865	803.3	737	87.4	2	32-Φ35	890	806.4	727	111.2	7	28-Φ45	
28	700	292	430	835	795.3	762	43	2	40-Φ22	920	857.2	787	87.4	2	36-Φ35	950	863.6	784	115.9	7	28-Φ48	
30	750	318	450	885	846.1	813	43	2	44-Φ22	990	920.8	845	92.1	2	36-Φ39	1020	927.1	841	125.5	7	28-Φ51	
32	800	318	470	940	900.1	864	44.6	2	48-Φ22	1055	977.9	902	101.6	2	32-Φ42	1085	984.2	895	130.2	7	28-Φ54	
36	900	330	510	1055	1009.6	972	50.9	2	44-Φ26	1170	1089	1010	101.6	2	32-Φ45	1215	1104.9	1010	146.1	7	28-Φ60	
40	1000	410	550	1175	1120.8	1080	54.1	2	44-Φ29	1275	1190.6	1114	114.3	2	40-Φ45							
44	1100	410	550	1275	1222.4	1181	58.9	2	52-Φ29	1385	1295.4	1219	125.5	2	40-Φ48							
48	1200	470	630	1390	1335.1	1289	63.6	2	44-Φ32	1510	1416	1327	127	2	40-Φ51							
52	1300	470	630	1495	1436.7	1391	68.4	2	52-Φ32	1615	1517.6	1429	141.3	2	48-Φ51							
56	1400	530	710	1600	1543	1492	71.6	2	60-Φ32	1765	1651	1537	152.4	2	36-Φ60							
60	1500	530	710	1725	1662.1	1600	74.7	2	52-Φ35	1880	1763.7	1651	149.3	2	40-Φ60							





LTD373

LTD673

LTD973

主要技术参数 Main Technology Parameter

公称压力 Nominal Pressure (MPa)	试验压力(MPa) Test Pressure (MPa)			适用温度 Applicable Temperature	适用介质 Applicable Media	驱动形式 Operation
	壳体试验 Shell Test	高压密封 High Pressure Seal	低压密封 Low Pressure Seal			
Class150	2.93	2.07	0.6	碳钢 Carbon steel: -29℃ ~ 425℃ 不锈钢 Stainless Steel: -100℃ ~ 800℃	空气、水、蒸气、 煤气、油品以及酸、 碱、盐带有弱腐蚀性 介质等 Air, Water, Steam Coal Gas, Oil and Acid, Alkali, Salt Corrosive Medium and so on.	蜗杆蜗轮传动、 气传动、 电传动、液动传动 Lever Operator, Worm Gear Operator, Pneumatic Operator, Electric Operator, Hydraulic transmission
Class300	7.58	5.52	0.6			
Class600	15.0	11.03	0.6			
Class900	20.9	15.3	0.6			

主要零件材质 Material for Main Parts

零件名称 Parts Name	材料 Material
阀体 Body	WCB, CF8, CF3, CF3M, CF8M, 2205, 2507, WC6, LCB, C95800等
蝶板 Disc	WCB, CF8, CF3, CF3M, CF8M, 2205, 2507, WC6, LCB, C95800等
密封圈 Sealing Ring	SS304+Graphite, SS304+STL, SS316+Graphite, SS316L+Graphite, SS316L+STL, S31803+Graphite, S31803+STL PTFE, RPTFE, PPL, EPDM, NBR等
阀杆 Stem	F6a, F304, F304L, F316, F316L, F51, F53, Monel K400/500, 17-4PH等
轴套 Bushing	SF-1, SF-1B, SS304, SS316, SS304+PTFE, SS316+PTFE等
填料 Packing	Graphite, PTFE, PPL等

主要连接尺寸 Main Connection Dimensions

ASME 16.5-2013 单位: Unit: mm

通径 Diameter		150Lb			300Lb			600Lb		
Inch	mm	L1	D1	Z-Md	L1	D1	Z-Md	L1	D1	Z-Md
2	50	43	120.7	4-(M5/8"-UNC11)	43	127	8-(M5/8"-UNC11)	43	127	8-(M5/8"-UNC11)
2.5	65	46	139.7	4-(M5/8"-UNC11)	46	149.2	8-(M3/4"-UNC10)	46	149.2	8-(M3/4"-UNC10)
3	80	48	152.4	4-(M5/8"-UNC11)	48	168.3	8-(M3/4"-UNC10)	54	168.3	8-(M3/4"-UNC10)
4	100	54	190.5	8-(M5/8"-UNC11)	54	200	8-(M3/4"-UNC10)	64	215.9	8-(M7/8"-UNC9)
5	125	57	215.9	8-(M3/4"-UNC10)	59	235	8-(M3/4"-UNC10)	78	266.7	8-(M1"-UN8)
6	150	57	241.3	8-(M3/4"-UNC10)	59	269.9	12-(M3/4"-UNC10)	78	292.1	12-(M1"-UN8)
8	200	64	298.5	8-(M3/4"-UNC10)	73	330.2	12-(M7/8"-UNC9)	102	349.2	12-(M1 1/8"-UN8)
10	250	71	362	12-(M7/8"-UNC9)	83	387.4	16-(M1"-UN8)	117	431.8	16-(M1 1/4"-UN8)
12	300	81	431.8	12-(M7/8"-UNC9)	92	450.8	16-(M1 1/8"-UN8)	140	489	20-(M1 1/4"-UN8)
14	350	92	476.3	12-(M1"-UN8)	117	514.4	20-(M1 1/8"-UN8)	155	527	20-(M1 3/8"-UN8)
16	400	102	539.8	16-(M1"-UN8)	133	571.5	20-(M1 1/4"-UN8)	178	603.2	20-(M1 1/2"-UN8)
18	450	114	577.9	16-(M1 1/8"-UN8)	149	628.6	24-(M1 1/4"-UN8)	200	654	20-(M1 5/8"-UN8)
20	500	127	635	20-(M1 1/8"-UN8)	159	685.8	24-(M1 1/4"-UN8)	216	723.9	24-(M1 5/8"-UN8)
24	600	154	749.3	20-(M1 1/4"-UN8)	181	812.8	24-(M1 1/2"-UN8)	232	838.2	24-(M1 7/8"-UN8)

主要连接尺寸 Main Connection Dimensions

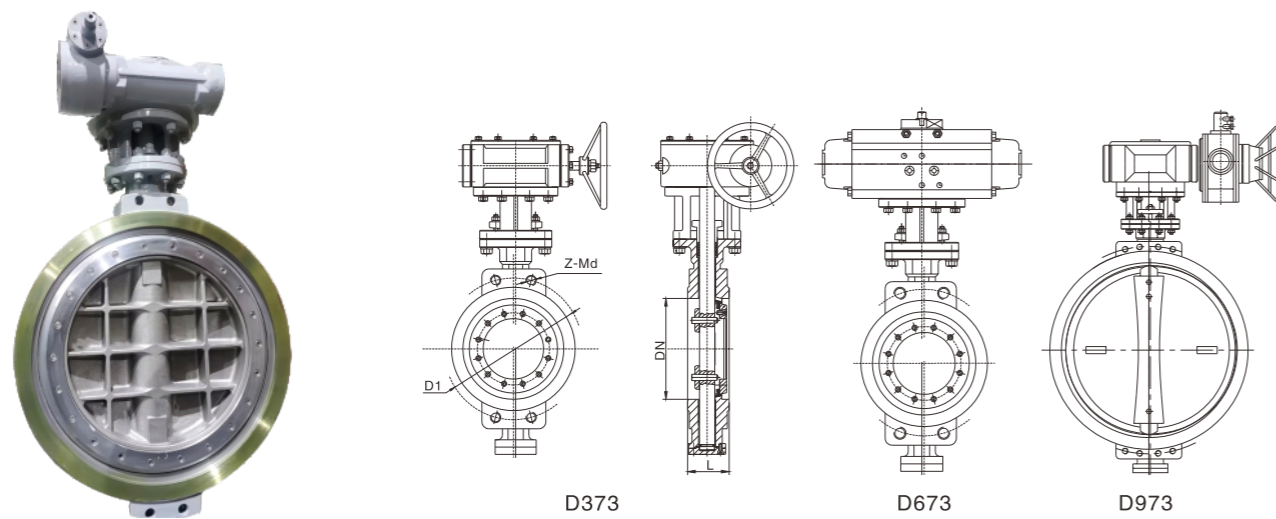
A系列 ASME B 16.47-2011 单位: Unit: mm

通径 Diameter		150Lb			300Lb			600Lb		
Inch	mm	L1	D1	Z-Md	L1	D1	Z-Md	L1	D1	Z-Md
26	650	165	806.4	24-(M1 1/4"-UN8)	229	876.3	28-(M1 5/8"-UN8)	229	914.4	28-(M1 7/8"-UN8)
28	700	165	863.6	28-(M1 1/4"-UN8)	229	939.8	28-(M1 5/8"-UN8)	229	965.2	28-(M2"-UN8)
30	750	190	914.4	28-(M1 1/4"-UN8)	241	997	28-(M1 3/4"-UN8)	241	1022.4	28-(M2"-UN8)
32	800	190	977.9	28-(M1 1/2"-UN8)	241	1054.1	28-(M1 7/8"-UN8)	241	1079.5	28-(M2 1/4"-UN8)
36	900	203	1085.8	32-(M1 1/2"-UN8)	241	1168.4	32-(M2"-UN8)	241	1193.8	28-(M2 1/2"-UN8)
40	1000	216	1200.2	36-(M1 1/2"-UN8)	330	1155.7	32-(M1 5/8"-UN8)	330	1212.8	32-(M2 1/4"-UN8)
44	1100	254	1314.4	40-(M1 1/2"-UN8)	360	1263.6	32-(M1 3/4"-UN8)	360	1333.5	32-(M2 1/2"-UN8)
48	1200	254	1422.4	44-(M1 1/2"-UN8)	360	1371.6	32-(M1 7/8"-UN8)	360	1460.5	32-(M2 3/4"-UN8)
52	1300	279	1536.7	44-(M1 3/4"-UN8)	390	1479.6	32-(M2"-UN8)	390	1574.8	32-(M3"-UN8)
56	1400	279	1651	48-(M1 3/4"-UN8)	390	1600.2	28-(M2 1/4"-UN8)	390	1695.4	32-(M3 1/4"-UN8)
60	1500	318	1759	52-(M1 3/4"-UN8)	440	1701.8	32-(M2 1/4"-UN8)	440	1822.4	28-(M3 1/2"-UN8)

主要连接尺寸 Main Connection Dimensions

B系列 ASME B 16.47-2011 单位: Unit: mm

通径 Diameter		150Lb			300Lb			600Lb		
Inch	mm	L1	D1	Z-Md	L1	D1	Z-Md	L1	D1	Z-Md
26	650	165	744.5	36-(M3/4"-UNC10)	229	803.3	32-(M1 1/4"-UN8)	229	806.4	28-(M1 5/8"-UN8)
28	700	165	795.3	40-(M3/4"-UNC10)	229	857.2	36-(M1 1/4"-UN8)	229	863.6	28-(M1 3/4"-UN8)
30	750	190	846.1	44-(M3/4"-UNC10)	241	920.8	36-(M1 3/8"-UN8)	241	927.1	28-(M1 7/8"-UN8)
32	800	190	900.1	48-(M3/4"-UNC10)	241	977.9	32-(M1 1/2"-UN8)	241	984.2	28-(M2"-UN8)
36	900	203	1009.6	44-(M7/8"-UNC9)	241	1089	32-(M1 5/8"-UN8)	241	1104.9	28-(M2 1/4"-UN8)
40	1000	216	1120.8	44-(M1"-UN8)	330	1190.6	40-(M1 5/8"-UN8)			
44	1100	254	1222.4	52-(M1"-UN8)	360	1295.4	40-(M1 3/4"-UN8)			
48	1200	254	1335.1	44-(M1 1/8"-UN8)	360	1416	40-(M1 7/8"-UN8)			
52	1300	279	1436.7	52-(M1 1/8"-UN8)	390	1517.6	48-(M1 7/8"-UN8)			
56	1400	279	1543	60-(M1 1/8"-UN8)	390	1651	36-(M2 1/4"-UN8)			
60	1500	318	1662.1	52-(M1 1/4"-UN8)	440	1763.7	40-(M2 1/4"-UN8)			



主要技术参数 Main Technology Parameter

公称压力 Nominal Pressure (MPa)	试验压力(MPa) Test Pressure (MPa)			适用温度 Applicable Temperature	适用介质 Applicable Media	驱动形式 Operation
	壳体试验 Shell Test	高压密封 High Pressure Seal	低压密封 Low Pressure Seal			
Class150	2.93	2.07	0.6	碳钢 Carbon steel: -29℃~425℃ 不锈钢 Stainless Steel: -100℃~800℃	空气、水、蒸气、 煤气、油品以及酸、 碱、盐带有弱腐蚀性 介质等 Air, Water, Steam Coal Gas, Oil and Acid, Alkali, Salt Corrosive Medium and so on.	蜗杆蜗轮传动、 气传动、 电传动、液动传动 Lever Operator, Worm Gear Operator, Pneumatic Operator, Electric Operator, Hydraulic transmission
Class300	7.58	5.52	0.6			
Class600	15.0	11.03	0.6			
Class900	20.9	15.3	0.6			

主要零件材质 Material for Main Parts

零件名称 Parts Name	材料 Material
阀体 Body	WCB, CF8, CF3, CF3M, CF8M, 2205, 2507, WC6, LCB, C95800等
蝶板 Disc	WCB, CF8, CF3, CF3M, CF8M, 2205, 2507, WC6, LCB, C95800等
密封圈 Sealing Ring	SS304+Graphite, SS304+STL, SS316+Graphite, SS316L+Graphite, SS316L+STL, S31803+Graphite, S31803+STL PTFE, RPTFE, PPL, EPDM, NBR等
阀杆 Stem	F6a, F304, F304L, F316, F316L, F51, F53, Monel K400/500, 17-4PH等
轴套 Bushing	SF-1, SF-1B, SS304, SS316, SS304+PTFE, SS316+PTFE等
填料 Packing	Graphite, PTFE, PPL等

主要连接尺寸 Main Connection Dimensions

ASME 16.5-2013 单位: Unit: mm

通径 Diameter		150Lb				300Lb				600Lb			
Inch	mm	L1	D1	Z-Md	法兰 端孔数 Flange hole no.	L1	D1	Z-Md	法兰 端孔数 Flange hole no.	L1	D1	Z-Md	法兰 端孔数 Flange hole no.
2	50	43	120.7	4-Ø19	4	43	127	4-(M5/8"-UNC11)	8	43	127	4-(M5/8"-UNC11)	8
2.5	65	46	139.7	4-Ø19	4	46	149.2	4-(M3/4"-UNC10)	8	46	149.2	4-(M3/4"-UNC10)	8
3	80	48	152.4	4-Ø19	4	48	168.3	4-(M3/4"-UNC10)	8	54	168.3	4-(M3/4"-UNC10)	8
4	100	54	190.5	4-Ø19	8	54	200	4-(M3/4"-UNC10)	8	64	215.9	4-(M7/8"-UNC9)	8
5	125	57	215.9	4-Ø22	8	59	235	4-(M3/4"-UNC10)	8	78	266.7	4-(M1"-UN8)	8
6	150	57	241.3	4-Ø22	8	59	269.9	4-(M3/4"-UNC10)	12	78	292.1	4-(M1"-UN8)	12
8	200	64	298.5	4-Ø22	8	73	330.2	4-(M7/8"-UNC9)	12	102	349.2	4-(M1 1/8"-UN8)	12
10	250	71	362	4-Ø25	12	83	387.4	4-(M1"-UN8)	16	117	431.8	4-(M1 1/4"-UN8)	16
12	300	81	431.8	4-Ø25	12	92	450.8	4-(M1 1/8"-UN8)	16	140	489	4-(M1 1/4"-UN8)	20
14	350	92	476.3	4-Ø29	12	117	514.4	4-(M1 1/8"-UN8)	20	155	527	4-(M1 3/8"-UN8)	20
16	400	102	539.8	4-(M1"-UN8)	16	133	571.5	4-(M1 1/4"-UN8)	20	178	603.2	4-(M1 1/2"-UN8)	20
18	450	114	577.9	4-(M1 1/8"-UN8)	16	149	628.6	4-(M1 1/4"-UN8)	24	200	654	4-(M1 5/8"-UN8)	20
20	500	127	635	4-(M1 1/8"-UN8)	20	159	685.8	4-(M1 1/4"-UN8)	24	216	723.9	4-(M1 5/8"-UN8)	24
24	600	154	749.3	4-(M1 1/4"-UN8)	20	181	812.8	4-(M1 1/2"-UN8)	24	232	838.2	4-(M1 7/8"-UN8)	24

主要连接尺寸 Main Connection Dimensions

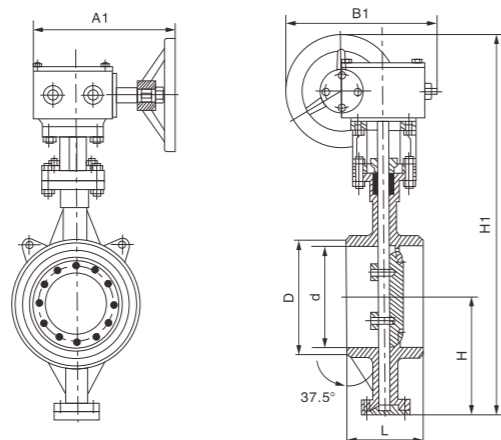
A系列 ASME B 16.47-2011 单位: Unit: mm

通径 Diameter		150Lb				300Lb				600Lb			
Inch	mm	L1	D1	Z-Md	法兰 端孔数 Flange hole no.	L1	D1	Z-Md	法兰 端孔数 Flange hole no.	L1	D1	Z-Md	法兰 端孔数 Flange hole no.
26	650	165	806.4	4-(M1 1/4"-UN8)	24	229	876.3	4-(M1 5/8"-UN8)	28	229	914.4	8-(M1 7/8"-UN8)	28
28	700	165	863.6	4-(M1 1/4"-UN8)	28	229	939.8	4-(M1 5/8"-UN8)	28	229	965.2	8-(M2"-UN8)	28
30	750	190	914.4	4-(M1 1/4"-UN8)	28	241	997	4-(M1 5/8"-UN8)	28	241	1022.4	8-(M2"-UN8)	28
32	800	190	977.9	4-(M1 1/2"-UN8)	28	241	1054.1	4-(M1 7/8"-UN8)	28	241	1079.5	8-(M2 1/4"-UN8)	28
36	900	203	1085.8	4-(M1 1/2"-UN8)	32	241	1168.4	8-(M2"-UN8)	32	241	1193.8	8-(M2 1/2"-UN8)	28
40	1000	216	1200.2	4-(M1 1/2"-UN8)	36	330	1155.7	8-(M1 5/8"-UN8)	32	330	1212.8	8-(M2 1/4"-UN8)	32
44	1100	254	1314.4	4-(M1 1/2"-UN8)	40	360	1263.6	8-(M1 3/4"-UN8)	32	360	1333.5	8-(M2 1/2"-UN8)	32
48	1200	254	1422.4	4-(M1 1/2"-UN8)	44	360	1371.6	8-(M1 7/8"-UN8)	32	360	1460.5	8-(M2 3/4"-UN8)	32
52	1300	279	1536.7	4-(M1 3/4"-UN8)	44	390	1479.6	8-(M2"-UN8)	32	390	1574.8	8-(M3"-UN8)	32
56	1400	279	1651	4-(M1 3/4"-UN8)	48	390	1600.2	8-(M2 1/4"-UN8)	28	390	1695.4	8-(M3 1/4"-UN8)	32
60	1500	318	1759	4-(M1 3/4"-UN8)	52	440	1701.8	8-(M2 1/4"-UN8)	32	440	1822.4	8-(M3 1/2"-UN8)	28

主要连接尺寸 Main Connection Dimensions

B系列 ASME B 16.47-2011 单位: Unit: mm

通径 Diameter		150Lb				300Lb				600Lb			
Inch	mm	L1	D1	Z-Md	法兰 端孔数 Flange hole no.	L1	D1	Z-Md	法兰 端孔数 Flange hole no.	L1	D1	Z-Md	法兰 端孔数 Flange hole no.
26	650	165	744.5	4-(M3/4"-UNC10)	36	229	803.3	8-(M1 1/4"-UN8)	32	229	806.4	8-(M1 5/8"-UN8)	28
28	700	165	795.3	4-(M3/4"-UNC10)	40	229	857.2	8-(M1 1/4"-UN8)	36	229	863.6	8-(M1 3/4"-UN8)	28
30	750	190	846.1	4-(M3/4"-UNC10)	44	241	920.8	8-(M1 3/8"-UN8)	36	241	927.1	8-(M1 7/8"-UN8)	28
32	800	190	900.1	8-(M3/4"-UNC10)	48	241	977.9	8-(M1 1/2"-UN8)	32	241	984.2	8-(M2"-UN8)	28
36	900	203	1009.6	8-(M7/8"-UNC9)	44	241	1089	8-(M1 5/8"-UN8)	32	241	1104.9	8-(M2 1/4"-UN8)	28
40	1000	216	1120.8	8-(M1"-UN8)	44	330	1190.6	8-(M1 5/8"-UN8)	40				
44	1100	254	1222.4	8-(M1"-UN8)	52	360	1295.4	8-(M1 3/4"-UN8)	40				
48	1200	254	1335.1	8-(M1 1/8"-UN8)	44	360	1416	8-(M1 7/8"-UN8)	40				
52	1300	279	1436.7	8-(M1 1/8"-UN8)	52	390	1517.6	8-(M1 7/8"-UN8)	48				
56	1400	279	1543	8-(M1 1/8"-UN8)	60	390	1651	8-(M2 1/4"-UN8)	36				
60	1500	318	1662.1	8-(M1 1/4"-UN8)	52	440	1763.7	8-(M2 1/4"-UN8)	40				



用途及特点 Uses and Characteristics

本蝶阀适用于高温、高压、防火、保温等管道上作启闭或调节介质之用。其主要特点如下：

- 1、结构紧凑、体积小、重量轻、操作灵活、使用方便；
- 2、采用三维偏心弹性或多层次硬密封结构，其密封性能可靠达到零泄漏；
- 3、此阀无法兰，对管道的保温包扎带来很大方便和美观；
- 4、具有耐高温、高压、耐腐蚀、耐磨损等特点。

The butterfly valve is used as opening and closing, or adjusting medium on the pipe of high temperature, high pressure and fireproof. Its main characteristics as below:

1. Tight structure, small volume, light weight, smart operation and convenient using.
2. The valve adopts triple eccentric resilience or multilayer metal seated structure to achieve zero leakage of sealing.
3. This valve doesn't have flange, so it is convenient for thermal insulation of the pipeline.
4. The valve is characterised by high temperature resistance, high pressure resistance, corrosion resistance and wear resistance, etc.

传动型式 Drive Type

蜗轮传动、气传动、电传动、液传动。

Worm and worm gear drive, pneumatic transmission, electric drive, hydraulic transmission

采用标准 Adoption Standard

焊接尺寸 Welding dimension: GB12224-2015; ASME B16.25-2012

结构长度 Face to face length: GB/T12221-2005; API609-2016

压力试验 Pressure test: GB/T13927-2008; API598-2016

主要技术参数 Main Technology Parameter

公称通径 Nominal Diameter	DN(mm)	50 ~ 2000				
公称压力 Nominal Pressure	PN(MPa)	0.6	1.0	1.6	2.5	4.0
试验压力 Ps(MPa) Test Pressure	强度试验 Shell test	0.9	1.5	2.4	3.75	6.0
	密封试验 Seal test	0.66	1.1	1.76	2.75	4.4
	气密封试验 Air Sealing Test	0.6	0.6	0.6	0.6	0.6
适用介质 Appropriate Medium	水、蒸气、油品、酸类腐蚀性等。Water, Steam, Oil, Acid corrosive and so on.					
适用温度 Appropriate Temperature	碳钢 Carbon steel: -29℃ ~ 425℃ 不锈钢 Stainless steel: -40℃ ~ 600℃					

主要零件材质 Material for Main Parts

零件名称 Parts Name	材料 Material
阀体 Body	铸钢、不锈钢、铬钼钢及特殊材料 Cast steel, stainless steel, Cr.Mo.Steel and ad hoc material
蝶板 Disc	铸钢、合金钢（镀硬铬）、不锈钢、铬钼钢及特殊材料 Cast steel, Alloy steel, stainless steel, Cr.Mo.Steel and ad hoc material
密封圈 Sealing Ring	不锈钢、抗磨材料 Stainless steel, resist grind material
阀杆 Stem	2Cr13、1Cr13 不锈钢、铬钼钢 Stainless steel, Cr.Mo.Steel
填料 Packing	柔性石墨 Flexible Graphite

主要连接尺寸 Main Connection Dimensions

单位: Unit: mm

公称压力 PN(MPa)	公称通径 Diameter DN	L	D	H0	D363H				D963H			
					H	A	B	W(kg)	H	A	B	W(kg)
0.6	100	190	117	115	295	170	50	20	360	66	150	35
	125	200	138	130	321	260	67	29	400	66	150	44
	150	210	161	230	385	66	150	40	385	66	150	98
	200	230	222	297	471	85	170	78	471	85	170	102
	250	250	278	327	533	85	170	98	533	85	170	126
	300	270	330	364	606	106	205	130	606	106	205	172
	350	290	382	404	695	106	205	1621	694	106	205	212
	400	310	432	444	757	130	240	190	757	130	240	251
	450	330	484	472	814	155	240	232	814	155	240	342
	500	350	535	522	902	169	306	326	902	169	306	376
	600	390	636	606	1180	198	324	460	1048	198	324	528
	700	430	726	738	1460	220	335	820	1277	220	335	743
	800	470	826	801	1588	241	356	1090	1385	241	356	919
	900	510	926	989	1856	241	356	1430	1490	241	356	970
	1000	550	1028	950	1990	241	356	1476	1620	241	356	1575
	1200	630	1228	1340	2190	35	785	1605	2191	35	785	1733
	1400	710	1428	1450	2306	35	785	2190	2326	35	785	2330
	1600	790	1628	1590	2680	35	785	32515	2685	35	785	3478
	1800	870	1828	1710	2917	60	865	4100	2924	60	865	4360
	2000	950	2028	1854	2174	60	865	5700	3186	60	865	6058
2200	1000	2260	2004	3256	90	1055	7485	1620	241	356	7970	
2400	1100	2464	2130	3437	90	1055	10540	2191	35	785	11250	
2600	1200	2674	2410	3629	130	1430	10890	2326	35	785	11592	
2800	1300	2872	2590	3850	130	1430	13700	2685	35	785	14629	
3000	1400	3078	2810	4070	180	1700	14850	2924	60	865	15733	
1.0	100	190	117	115	295	170	50	20	360	66	150	35
	125	200	138	130	321	260	67	29	400	66	150	44
	150	210	161	230	385	66	150	40	385	66	150	98
	200	230	222	297	471	85	170	78	471	85	170	102
	250	250	278	327	533	85	170	98	533	85	170	126
	300	270	330	364	606	106	205	130	606	106	205	172
	350	290	382	404	694	106	205	161	694	106	205	212
	400	310	432	444	757	130	240	190	757	130	240	251
	450	330	484	472	814	155	240	232	814	155	240	342
	500	350	535	522	902	169	306	326	902	169	306	376
	600	390	636	606	1180	198	324	460	1048	198	324	533
	700	430	726	738	1460	220	335	670	1277	220	335	748
	800	470	826	801	1588	241	356	810	1385	241	356	927
	900	510	926	989	1856	241	356	850	1490	241	356	978
	1000	550	1028	950	1990	241	356	1620	1620	241	356	1770
	1200	630	1228	1340	2190	35	785	1768	2191	35	785	2195
	1400	710	1428	1450	2306	35	785	2420	2326	35	785	2695
	1600	790	1628	1590	2680	35	785	3540	2685	35	785	3830
	1800	870	1828	1710	2917	60	865	4540	2924	60	865	4991
	2000	950	2028	1854	3174	60	865	6220	3186	60	865	7034

### 对焊式金属硬密封蝶阀 Butt Welding Metal Seated Butterfly Valve

### 对焊式金属硬密封蝶阀 Butt Welding Metal Seated Butterfly Valve

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

单位: Unit: mm

公称压力 PN(MPa)	公称通径 Diameter DN	L	D	H0	D363H				D963H			
					H	A	B	W(kg)	H	A	B	W(kg)
1.6	100	190	117	115	295	170	50	20	360	66	150	35
	125	200	138	130	321	260	67	29	400	66	150	44
	150	210	161	230	385	66	150	40	385	66	150	102
	200	230	222	297	471	85	170	78	471	85	170	107
	250	250	278	327	533	85	170	98	533	85	170	132
	300	270	330	364	606	106	205	130	606	106	205	177
	350	290	382	404	694	106	205	161	694	106	205	218
	400	310	432	444	757	130	240	190	757	130	240	257
	450	330	484	4723	814	155	240	232	814	155	240	348
	500	350	535	522	902	169	306	326	902	169	306	382
	600	390	636	606	1180	198	324	460	1048	198	324	578
	700	430	726	738	1460	220	335	670	1277	220	335	1023
	800	470	826	801	1588	241	356	810	1385	241	356	1410
	900	510	926	989	1856	241	356	850	1490	241	356	1770
	1000	550	1028	950	1990	241	356	1620	1620	241	356	2326
	1200	630	1228	1340	2190	35	785	17689	2191	35	785	3166
1400	710	1428	1450	2306	35	785	2420	2326	35	785	3792	
1600	790	1628	1590	2680	35	785	3540	2685	35	785	5353	
1800	870	1828	1710	2917	60	865	4540	2924	60	865	6203	
2000	950	2028	1854	2174	60	865	6220	3186	60	865	8490	
2.5	100	190	117	115	295	170	50	20	360	66	150	35
	125	200	138	130	321	260	67	29	400	66	150	44
	150	210	161	230	385	66	150	91	470	66	150	102
	200	230	222	297	471	85	170	112	534	85	170	107
	250	250	278	327	533	85	170	137	566	85	170	132
	300	270	330	364	606	106	205	177	606	106	205	177
	350	290	382	404	694	106	205	198	694	106	205	218
	400	310	432	444	757	130	240	298	757	130	240	257
	450	330	484	472	814	155	240	352	814	155	240	348
	500	350	535	522	902	169	306	532	902	169	306	450
	600	390	636	606	1180	198	324	637	1048	198	324	670
	700	430	726	738	1460	220	335	947	1277	220	335	1221
	800	470	826	801	1588	241	356	1295	1385	241	356	1609
	900	510	926	989	1856	241	356	1825	1490	241	356	2140
	1000	550	1028	1053	1990	241	356	1975	1620	241	356	2442
	1200	630	1228	1162	2190	35	785	2861	2191	35	785	3531
1400	710	-	-	-	-	-	-	-	-	-	-	
1600	790	-	-	-	-	-	-	-	-	-	-	
1800	870	-	-	-	-	-	-	-	-	-	-	
2000	950	-	-	-	-	-	-	-	-	-	-	

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

单位: Unit: mm

公称压力 PN(MPa)	公称通径 Diameter DN	L	D	H0	D363H				D963H				
					H	A	B	W(kg)	H	A	B	W(kg)	
4.0	100	190	117	115	295	170	50	20	360	66	150	35	
	125	200	138	130	321	260	67	29	400	66	150	44	
	150	210	161	280	445	66	150	93	472	66	150	108	
	200	230	222	297	510	85	170	119	537	85	170	197	
	250	250	278	339	569	85	170	137	570	85	170	270	
	300	270	330	375	653	106	205	267	653	106	205	371	
	350	290	382	463	730	106	205	294	730	106	205	466	
	400	310	432	495	810	130	240	363	810	130	240	557	
	450	330	484	566	850	155	240	504	850	155	240	707	
	500	350	535	630	940	169	306	556	940	169	306	871	
	600	390	636	727	1150	198	324	908	1150	198	324	1042	
	700	430	726	780	1485	241	356	1362	1370	241	356	1367	
	800	470	826	835	1645	241	356	1618	1590	241	356	1850	
	900	510	926	895	1940	35	785	2098	2140	35	785	2461	
	1000	550	1028	957	2294	35	785	2370	2444	35	785	2808	
	Class 150Lb	6"	150	210	161	230	385	66	150	44	385	66	150
8"		200	230	222	297	471	85	170	82	471	85	170	100
10"		250	250	278	327	533	85	170	103	533	85	170	127
12"		300	270	330	364	606	106	205	132	606	106	205	170
14"		350	290	382	404	694	106	205	164	694	106	205	206
16"		400	310	432	444	757	130	240	193	757	130	240	244
18"		450	330	484	472	814	155	240	240	814	155	240	302
20"		500	350	535	522	902	169	306	309	902	169	306	373
24"		600	390	636	5902	1048	198	324	460	1048	198	324	561
28"		700	430	726	810	1277	220	335	817	1277	220	335	993
32"		800	470	826	844	1385	241	356	1100	1385	241	356	1354
36"		900	510	926	890	1490	241	356	1430	1490	241	356	1725
40"	1000	550	1028	950	1620	241	356	1880	16230	241	356	2260	
48"	1200	630	1228	1340	2191	35	785	2230	2191	35	785	2830	
Class 300Lb	6"	150	210	161	280	445	66	150	56	445	66	150	106
	8"	200	230	222	297	510	85	170	102	510	85	170	192
	10"	250	250	278	339	569	85	170	136	569	85	170	268
	12"	300	270	330	375	653	106	205	261	653	106	205	370
	14"	350	290	382	463	730	106	205	284	730	106	205	463
	16"	400	310	432	495	810	130	240	323	810	130	240	548
	18"	450	330	484	566	850	155	240	503	850	155	240	697
	20"	500	350	535	630	940	169	306	553	940	169	306	868
	24"	600	390	636	727	1150	198	324	904	1150	198	324	1032
	28"	700	430	736	775	-	-	-	-	1228	241	356	1268
	30"	800	470	786	780	-	-	-	-	1480	241	356	1504
	32"	900	470	826	835	-	-	-	-	1590	241	356	2035
36"	1000	510	926	895	-	-	-	-	2140	35	785	2700	
40"	1200	550	1028	957	-	-	-	-	2444	35	785	3085	

○ 高性能密封蝶阀HJ系列/High-performance sealing butterfly valve HJ series

**HJF**  
PN10 16 25 40  
150LB300LB  
(50-600mm)  
**HJM**  
PN10 16 25  
150LB  
(50-600mm)



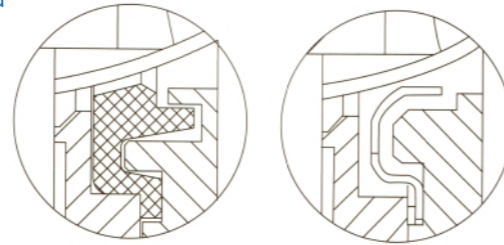
○ 自密封结构紧密闭合/Self-sealing structure tightly closed

采用了利用阀板和阀环上的液体压力,使两者紧密结合的新结构。因为液体压力越高,封闭性能越好,所以,其可靠性极高。

在构造上,两个方向无论哪一方受力,都可利用其液体压力,使阀板和阀环紧密接合。

The use of liquid pressure on the valve plate and valve ring, make new structure in the combination of both. Because the liquid pressure is higher,

The better the performance of closed, so its reliability is extremely high. On the structure, the two direction force, no matter which side is the liquid pressure, can make the valve plate and valve closely joint ring.



○ 两种阀座适用性广泛/Two kinds of seat applicability widely

备有聚四氟乙烯阀座。金属阀座这两种类型的阀座。适用于泥浆沉淀物、化学药品,至高压蒸汽等多种液体和控制条件。

Equipped with PTFE seat. The two types of seat metal seat. Applicable to the mud sediment, chemicals, to high pressure steam and other fluids and control conditions.

**HJF (高性能四氟密封蝶阀)**  
聚四氟乙烯密封圈 (PTFE 50°C~232°C)  
PTFE sealing ring (PTFE 50°C~232°C)

可以适用于具有强腐蚀性的化学药品和高达232°C的高温流体。例:纯水、空调冷水、海水、水。福尔马林溶液。有机溶剂、空气、氧气、废气、城市气体、焦化气。  
Can be applied to has a strong corrosive chemicals and as high as 232°C high temperature fluid. Example: pure water, and air conditioning of different, sea water, and water. Formaldehyde solution. Organic solvent, air, oxygen. exhaust gas, city gas, coking gas.

**HJM (高性能金属密封蝶阀)**  
金属密封圈 (Inconel 450°C)  
The metal sealing ring (Inconel 450 C)

适用于橡胶和聚四氟乙烯所无法控制的高温流体,可以替代闸阀、球阀使用。例:水蒸气、空气、燃气、废气、亚硫酸气体、氮气等。  
Suitable for rubber and polytetrafluoroethylene is unable to control the high temperature of fluid, can be used instead of gate valve, ball valve. Example: steam, air, gas, waste gas and sulfuric acid gas, nitrogen, etc.

高性能蝶阀HJ系列是为了解决通用阀门难以适应的高低温、高压、真空等工况而开发的高性能蝶阀。具有独特的自密封和双偏心结构,另外通过对三种密封材料的选择,在广泛的使用条件下保证高性能。可以适用于球阀或闸阀无法封闭的腐蚀性泥浆乃至高温蒸汽等广泛的流体。

HJ series high performance butterfly valve are designed to solve common valve is difficult to adapt to the high and low temperature, high pressure, vacuum condition and the development of high performance butterfly valve, etc. Has a unique self sealing and double eccentric structure, and through to the three kinds of sealing material choice, under the condition of the widely used to ensure high performance. Can be applied to mud ball valve and gate valve cannot be closed for corrosion and high temperature steam, etc. A wide range of fluid.

○ 自密封结构紧密闭合/Self-sealing structure tightly closed

设计上,阀板相对于阀体和阀座设置了两个偏心,因此在完全关闭前,阀板与阀座将维持在无接触状态。这种双偏心结构,可提供下列好处:

Design, valve plate installed two eccentric relative to the valve body and seat the before fully closed, the valve plate and valve seat will remain in contact condition. This kind of double eccentric structure, can provide the following benefits:

A. 阀体双偏心构造

由于本体一侧的阀座和阀板之间的摩擦极少,因此可延长阀座的使用寿命,而且可用最小扭矩进行轻松的操作。

B. 阀座的更换极为简单

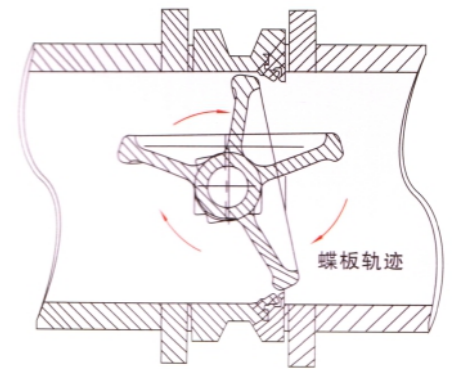
可在现场取下座环,简单地进行阀座更换。

A. The body double eccentric structure

Because the body side of the seat and disc friction between the few, so can prolong the service life of the seat, and available minimum torque for easy operation.

B. The change of seat ring is very easy

You can remove the insert ring at the scene, simply for the seat replacement.



○ HJF、HJM标准材料参数/HJF、HJM Standard material parameters

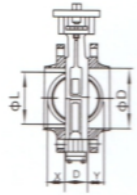
序号 No.	类型/Description	HJF (高性能四氟密封蝶阀) High performance PTFE sealing butterfly valve	HJM (高性能金属密封蝶阀) High-performance metal sealing butterfly valve
1**	阀体/Body	FCD55、WCB、SS304、SS316	WCB、SS304、SS316
2**	阀板/Disc	SS304、SS316	SS304、SS316
3**	阀杆/Stem	17-4PH	17-4PH
4*	阀座/Seat	POM、EPDM、PTFE、RPTFE	SS316、0Cr12Mn5Ni4Mo3Al、Inconel825
5	轴套/Bearing	SS304、PTFE	SS304
6*	填料/Gland packing	PTFE	石墨graphite
7**	压环/Insert ring	Q235、SS304、SS316	Q235、SS304、SS316

\*=易损件/Wearing parts \*\*=可以根据要求更换各种材质/Can according to change of all kinds of material

高性能蝶阀  
High performance butterfly valve

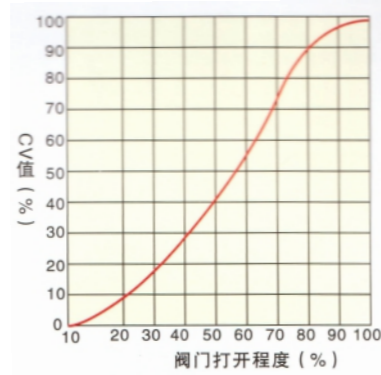
高性能蝶阀  
High performance butterfly valve

Hj的管道内径表  
/HJ Pipe diameter



口径/Size (mm)	最小管道内径 The minimum pipe diameter Φ	口径/Size (mm)	最小管道内径 The minimum pipe diameter Φ
50	Φ46	250	Φ238
65	Φ59	300	Φ281
80	Φ76	350	Φ312
100	Φ93	400	Φ351
125	Φ118	500	Φ409
150	Φ139	600	Φ542
200	Φ190	-	-

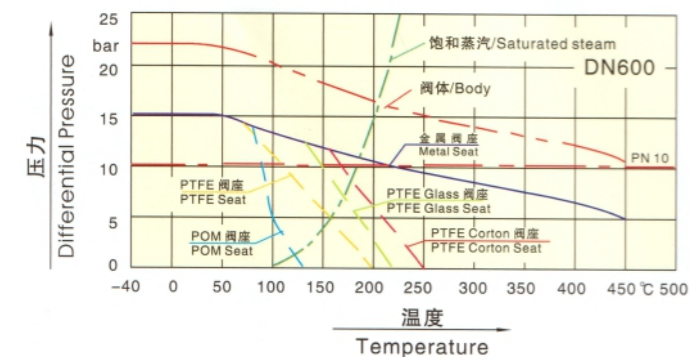
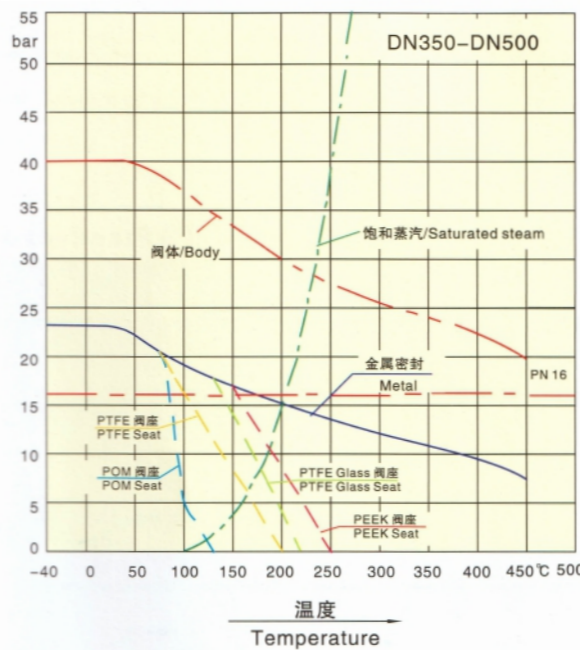
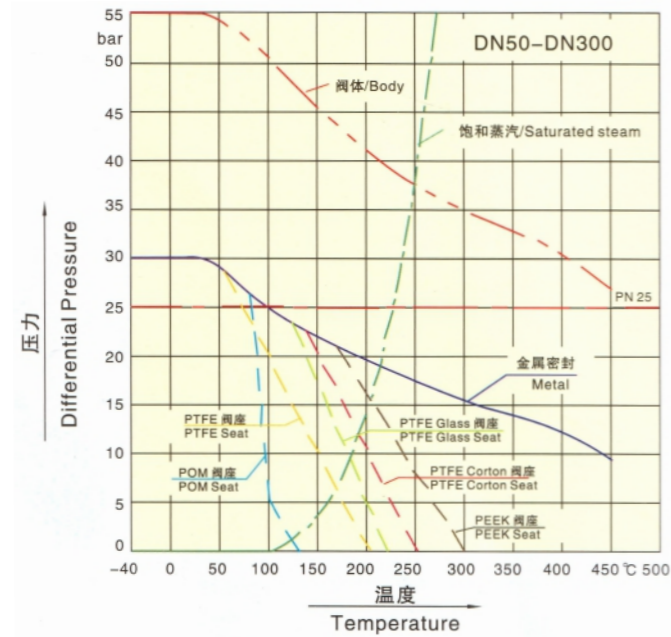
HJ的CV值、流量特性曲线/HJCV value, the flow characteristic curve



HJ的全开CV值表/HJ Full open CV value

口径/Size (mm)	10/20 W.O.G	口径/Size (mm)	10/20 W.O.G
50	79	250	2610
65	130	300	4050
80	166	350	5000
100	395	400	6900
125	655	500	12000
150	858	600	18000
200	1810	-	-

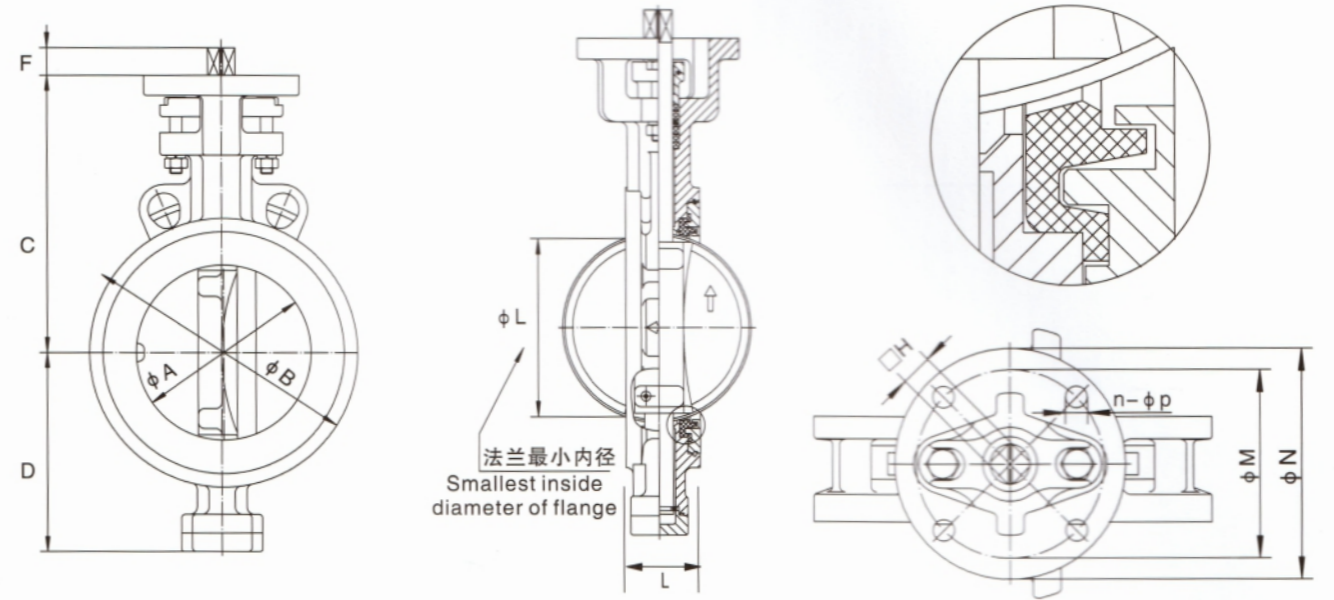
HJ系列温度压力表/Pressure-temp.range diagram of series HJ



金属阀座/Metal seat:  
温度/Temperature: >280°C  
阀座泄漏标准/Seat Leakage: DIN3230-BO>2  
EN12266-P12>B  
如果阀门不按照建议流向安装, POM与PEEK阀座的最大压力为5bar。  
The maximum differential pressure for PEEK or POM seats is 5 bar if the valve is used against the recommended flow direction.

HJ尺寸/HJ Size (A型)

Flange connection: GB9113 PN10-40 ANSI 16.5 150-300LB JIS 10-16K  
Face to face dimension: GB12221, API609

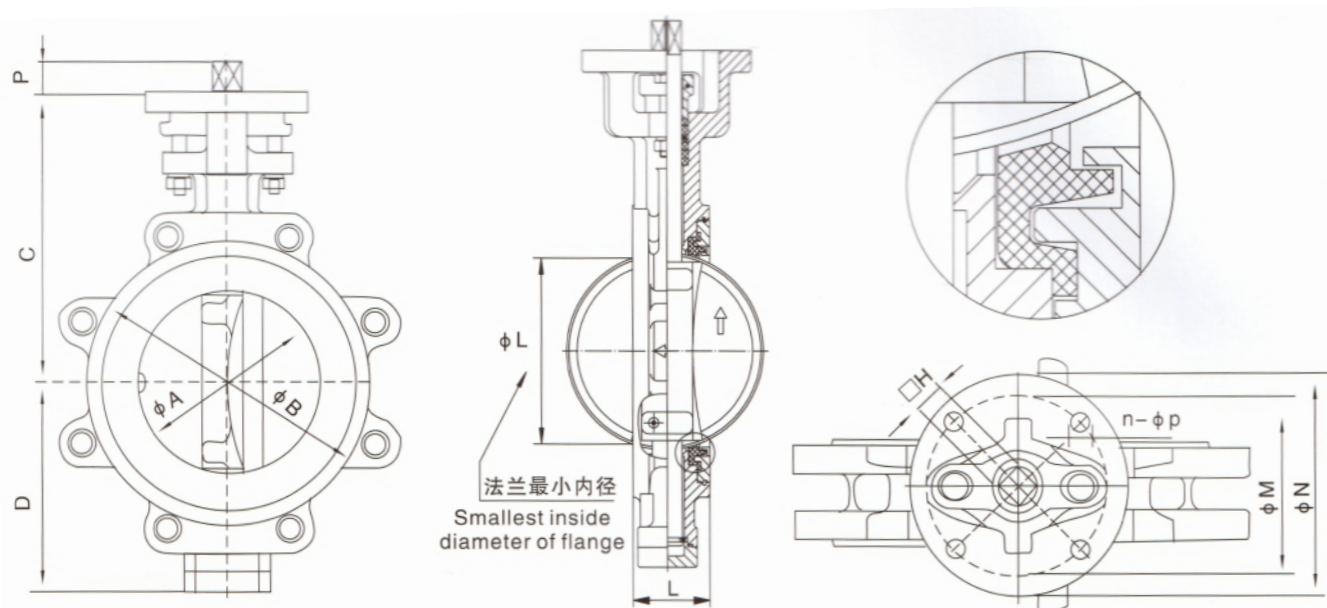


DN	inch	ΦA	ΦB	C	D	L	F	ΦL	ΦH	ΦM	ΦN	n-Φp	安装平台 ISO5211
50	2"	47	102	140	98	43	16	46	11	70	90	4×9	F07
65	2 1/2"	64	122	152	106	46	16	59	11	70	90	4×9	F07
80	3"	76	133	165	113	46	16	76	11	70	90	4×9	F07
100	4"	98	156	185	130	52	20	93	14	70	92	4×9	F07
125	5"	119	188	205	147	56	20	118	14	70	95	4×9	F07
150	6"	140	216	223	161	56	22	139	17	102	125	4×11	F10
200	8"	190	268	268	203	60	25	190	19	102	125	4×11	F10
250	10"	237	323	310	235	68	28	238	22	125	150	4×14	F12
300	12"	280	336	356	268	78	32	281	27	125	150	4×14	F12
350	14"	318	415	365	312	92	38	312	27	140	145	4×18	F14
400	16"	362	470	405	351	102	60	351	-	165	185	4×22	F16
500	20"	467	580	465	409	127	70	409	-	165	185	4×22	F16
600	24"	550	679	520	434	154	80	542	-	165	210	4×22	F16

高性能蝶阀  
High performance butterfly valve

○ HJ尺寸/HJ Size (A型)

Flange connection: GB9113 PN10-40 ANSI 16.5 150-300LB JIS 10-16K  
Face to face dimension: GB12221, API609



DN	inch	ΦA	ΦB	C	D	L	F	ΦL	□H	ΦM	ΦN	n-Φp	安装平台 ISO5211
50	2"	47	102	140	98	43	16	46	11	70	90	4×9	F07
65	2 1/2"	64	122	152	106	46	16	59	11	70	90	4×9	F07
80	3"	76	133	165	113	46	16	76	11	70	90	4×9	F07
100	4"	98	156	185	130	52	20	93	14	70	92	4×9	F07
125	5"	119	188	205	147	56	20	118	14	70	95	4×9	F07
150	6"	140	216	223	161	56	22	139	17	102	125	4×11	F10
200	8"	190	268	268	203	60	25	190	19	102	125	4×11	F10
250	10"	237	323	310	235	68	28	238	22	125	150	4×14	F12
300	12"	280	336	356	268	78	32	281	27	125	150	4×14	F12
350	14"	318	415	365	312	92	38	312	27	140	145	4×18	F14
400	16"	362	470	405	351	102	60	351	-	165	185	4×22	F16
500	20"	467	580	465	409	127	70	409	-	165	185	4×22	F16
600	24"	550	679	520	434	154	80	542	-	165	210	4×22	F16

高性能蝶阀  
High performance butterfly valve

○ 高性能蝶阀系列HJF扭矩表/High performance butterfly valve series HJF Torques

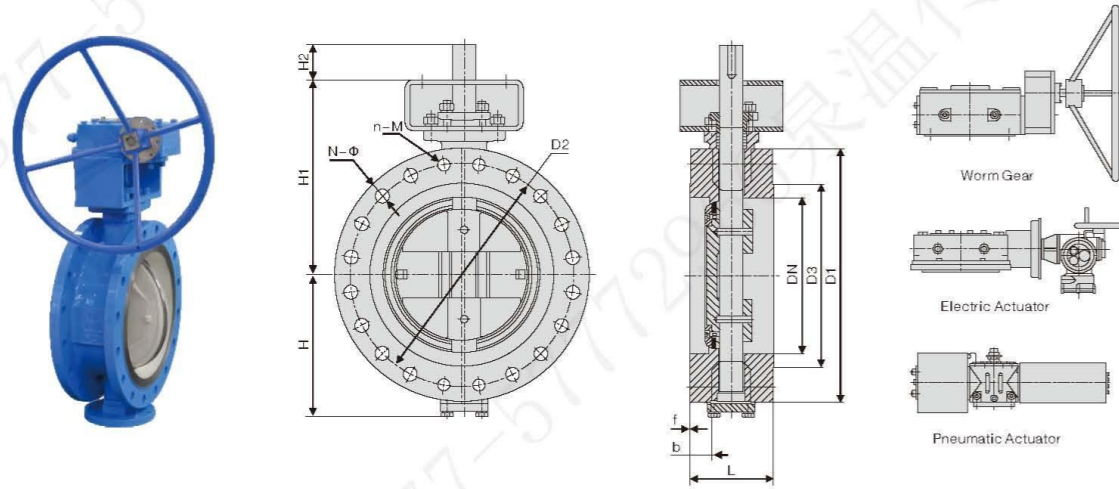
DN	NPS	PTFE阀座/seat PN10 JIS10K (Nm)	PTFE阀座/seat PN16 JIS16K (Nm)	PTFE阀座/seat PN25 (Nm)	PTFE阀座/seat PN40 (Nm)	PTFE阀座/seat PN20 Class150 (Nm)	PTFE阀座/seat PN50 Class300 (Nm)
50	2"	64	68	71	75	69	82
65	2 1/2"	72	78	82	86	80	95
80	3"	78	86	92	98	89	108
100	4"	85	95	105	115	100	128
125	5"	115	125	155	190	140	210
150	6"	160	175	220	270	195	300
200	8"	250	270	340	420	300	470
250	10"	350	385	480	600	430	680
300	12"	500	650	830	950	730	1080
350	14"	750	985	1350	1800	1150	2100
400	16"	1100	1500	2200	3200	1800	3800
450	18"	1700	2200	3600	5500	2900	6500
500	20"	2500	3200	6000	9500	4500	11200
600	24"	3400	4400	9000	16000	6700	19000

○ 高性能蝶阀系列HJF扭矩表/High performance butterfly valve series HJF Torques

DN	NPS	PTFE阀座/seat PN10 JIS10K (Nm)	PTFE阀座/seat PN16 JIS16K (Nm)	PTFE阀座/seat PN25 (Nm)
50	2"	84	86	88
65	2 1/2"	92	98	100
80	3"	100	106	108
100	4"	110	116	128
125	5"	160	175	188
150	6"	220	235	260
200	8"	310	340	385
250	10"	410	460	550
300	12"	650	820	1050
350	14"	1050	1500	2150
400	16"	1600	2250	3000
450	18"	2000	2750	4200
500	20"	2600	3400	7200
600	24"	3900	5100	10000

American standard flange three eccentric butterfly valve

美标法兰式三偏心蝶阀



外形及连接尺寸 Appearance and connect size

CLASS 150 Lb

DN	L	D1	D2	D3	N-Φ	n-M	b	f	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	108	150	120.7	92.1	4-Φ19.1	/	19.5	2	F07	26	10	58	75	160	40
2.5"(DN65)	112	180	139.7	104.8	4-Φ19.1	/	22.7	2	F07	32	14	109	90	172	40
3"(DN80)	114	190	152.4	127	4-Φ19.1	/	24.3	2	F07	80	17	165	95	197	40
4"(DN100)	127	230	190.5	157.2	8-Φ19.1	/	24.3	2	F07	142	23	318	115	204	40
5"(DN125)	140	255	215.9	185.7	8-Φ22.2	/	24.3	2	F10	264	32	648	138	260	50
6"(DN150)	140	280	241.3	215.9	8-Φ22.2	/	25.9	2	F10	362	41	932	147	272	60
8"(DN200)	152	345	298.5	269.9	8-Φ22.2	/	29	2	F12	785	50	1970	185	307	60
10"(DN250)	165	405	362	323.8	8-Φ25.4	4-7/8-9UNC	30.6	2	F14	1080	74	2689	215	355	60
12"(DN300)	178	485	431.8	381	8-Φ25.4	4-7/8-9UNC	32.2	2	F14	1510	120	3930	252	395	60
14"(DN350)	190	535	476.3	412.8	8-Φ28.6	4-1-8UNC	35.4	2	F16	2458	146	5290	287	440	80
16"(DN400)	216	595	539.8	469.9	12-Φ28.6	4-1-8UNC	37	2	F25	2850	200	7726	317	490	90
18"(DN450)	222	635	577.9	533.4	12-Φ31.8	4-1 1/8-8UN	40.1	2	F25	4536	236	9856	342	507	90
20"(DN500)	229	700	635	584.2	16-Φ31.8	4-1 1/8-8UN	43.3	2	F25	6200	300	12180	372	535	90
22"(DN550)	267	750	692.2	641.4	16-Φ34.9	4-1 1/4-8UN	46.5	2	F25	7300	400	15625	409	575	120
24"(DN600)	267	815	749.3	692.2	16-Φ34.9	4-1 1/4-8UN	48.1	2	F25	8240	460	19800	439	605	120
26"(DN650)	292	785	744.5	711	36-Φ22.2	/	41.8	2	F30	10380	460	23850	510	645	120
28"(DN700)	292	835	795.3	762	40-Φ22.2	/	45	2	F30	11682	500	27600	536	680	120
30"(DN750)	318	885	846.1	813	44-Φ22.2	/	45	2	F30	14340	570	33700	580	710	150
32"(DN800)	318	940	900.1	864	48-Φ22.2	/	46.6	2	F30	17856	620	35800	581	705	150
34"(DN850)	330	1005	957.3	921	40-Φ25.4	/	49.7	2	F30	23345	750	40400	636	825	150
36"(DN900)	330	1055	1009.6	972	44-Φ25.4	/	52.9	2	F30	27200	794	45600	675	850	150
38"(DN950)	410	1125	1070	1022	40-Φ28.6	/	54.5	2	F35	31000	1100	50560	675	855	150
40"(DN1000)	410	1175	1120.8	1080	44-Φ28.6	/	56.1	2	F35	32000	1250	56000	725	885	150
42"(DN1050)	410	1225	1171.6	1130	48-Φ28.6	/	59.3	2	F35	34000	1300	61800	777	952	180
44"(DN1100)	470	1275	1222.4	1181	52-Φ28.6	/	60.9	2	F35	36000	1336	67800	786	965	180
48"(DN1200)	470	1390	1335.1	1289	44-Φ31.8	/	65.6	2	F40	45400	1800	82500	847	1020	180
52"(DN1300)	530	1495	1436.7	1391	52-Φ31.8	/	70.4	2	F40	56000	1900	104336	896	1080	180
56"(DN1400)	530	1600	1543	1492	60-Φ31.8	/	73.6	2	F40	70500	2000	121000	941	1175	200
60"(DN1500)	530	1725	1662.1	1600	52-Φ34.9	/	76.7	2	F40	86000	3300	160380	995	1225	200

M/P: 13706698570 13676525161 18296678660

American standard flange three eccentric butterfly valve

美标法兰式三偏心蝶阀

外形及连接尺寸 Appearance and connect size

CLASS 300 Lb

DN	L	D1	D2	D3	N-Φ	n-M	b	f	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	108	165	127	92.1	4-Φ19.1	4-5/8-11UNC	22.7	2	F07	78	13	58	82.5	160	40
2.5"(DN65)	112	190	149.2	104.8	4-Φ22.2	4-3/4-10UNC	25.9	2	F07	88	18	109	95	172	40
3"(DN80)	114	210	168.3	127	4-Φ22.2	4-3/4-10UNC	29	2	F07	144	23.2	165	105	207	40
4"(DN100)	127	255	200	157.2	4-Φ22.2	4-3/4-10UNC	32.2	2	F07	258	32	318	127.5	222	45
5"(DN125)	140	280	235	185.7	4-Φ22.2	4-3/4-10UNC	35.4	2	F10	412	42	648	170	272	60
6"(DN150)	140	320	269.9	215.9	8-Φ22.2	4-3/4-10UNC	37	2	F12	798	58	682	190	292	60
8"(DN200)	152	380	330.2	269.9	8-Φ25.4	4-7/8-9UNC	41.7	2	F14	1960	85	1230	230	345	80
10"(DN250)	165	445	387.4	323.8	12-Φ28.6	4-1-8UNC	48.1	2	F16	2270	121.6	2370	260	400	80
12"(DN300)	178	520	450.8	381	12-Φ31.8	4-1 1/8-8UN	51.3	2	F16	2780	180	3520	300	440	85
14"(DN350)	190	585	514.4	412.8	16-Φ31.8	4-1 1/8-8UN	54.4	2	F25	5680	245	4782	330	485	90
16"(DN400)	216	650	571.5	469.9	16-Φ34.9	4-1 1/4-8UN	57.6	2	F25	7800	334	6280	365	510	90
18"(DN450)	222	710	628.6	533.4	20-Φ34.9	4-1 1/4-8UN	60.8	2	F25	8956	400	7980	405	550	120
20"(DN500)	229	775	685.8	584.2	20-Φ34.9	4-1 1/4-8UN	64	2	F30	11518	594	10800	440	600	120
22"(DN550)	267	840	743	641.4	20-Φ41.3	4-1 1/2-8UN	67.1	2	F30	15800	700	13030	480	610	150
24"(DN600)	267	915	812.8	692.2	20-Φ41.3	4-1 1/2-8UN	70.3	2	F30	18393	800	16180	520	675	150
26"(DN650)	292	865	803.3	737	24-Φ34.9	8-1 1/4-8UN	89.4	2	F35	24000	720	19327	575	745	150
28"(DN700)	292	920	857.2	787	28-Φ34.9	8-1 1/4-8UN	89.4	2	F35	27478	920	22410	600	780	180
30"(DN750)	318	990	920.8	845	28-Φ38.1	8-1 3/8-8UN	94.1	2	F35	38971	1100	27090	635	815	180
32"(DN800)	318	1055	977.9	902	24-Φ41.3	8-1 1/2-8UN	103.6	2	F40	41150	1100	33050	665	895	180
34"(DN850)	330	1110	1031.9	953	28-Φ41.3	8-1 1/2-8UN	103.6	2	F40	48200	1600	37320	686	930	180
36"(DN900)	330	1170	1089	1010	24-Φ44.5	8-1 5/8-8UN	103.6	2	F40	53700	1975	42090	712	950	180
38"(DN950)	410	1220	1139.8	1060	28-Φ44.5	8-1 5/8-8UN	111.6	2	F40	63000	2017.6	47000	764	950	200
40"(DN1000)	410	1275	1190.6	1114	32-Φ44.5	8-1 5/8-8UN	116.3	2	F40	68370	2350	48964	784	960	200
44"(DN1100)	470	1385	1295.4	1219	32-Φ47.6	8-1 3/4-8UN	127.5	2	F40	82650	2600	62500	839	1010	200
48"(DN1200)	470	1510	1416	1327	32-Φ50.8	8-1 7/8-8UN	129	2	F48	108000	3200	69350	916	1090	250
52"(DN1300)	530	1615	1517.6	1429	40-Φ50.8	8-1 7/8-8UN	143.3	2	F48	123000	4288	81847	972	1150	250
56"(DN1400)	530	1765	1651	1537	28-Φ60.3	8-2 1/4-8UN	154.4	2	F48	156000	5440	94390	1087	1270	290
60"(DN1500)	530	1880	1763.7	1651	32-Φ60.3	8-2 1/4-8UN	151.3	2	F60	210000	6160	108400	1145	1370	290

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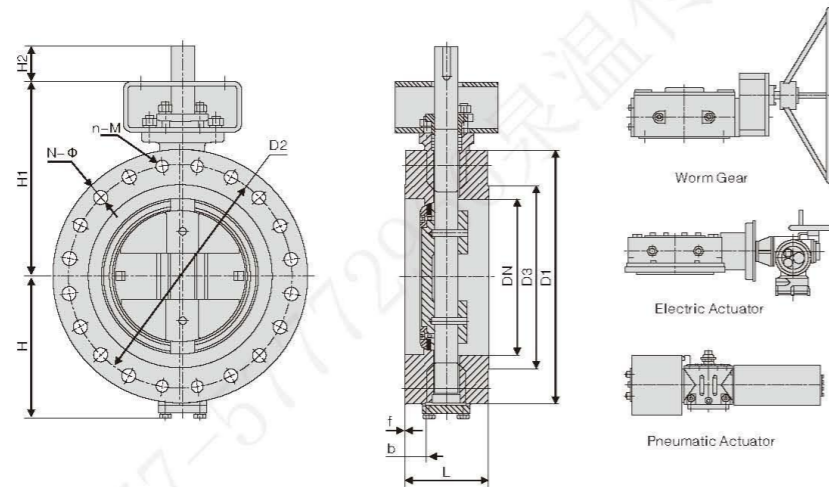
外形及连接尺寸 Appearance and connect size

CLASS 600 Lb

DN	L	D1	D2	D3	N-Φ	n-M	b	f	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	150	165	127	92.1	4-Φ19.1	4-5/8-11UNC	32.4	7	F07	162	15	42	82.5	190	40
2.5"(DN65)	170	190	149.2	104.8	4-Φ22.2	4-3/4-10UNC	35.6	7	F07	208	22	72	95	210	40
3"(DN80)	180	210	168.3	127	4-Φ22.2	4-3/4-10UNC	38.8	7	F10	340	30	107	105	242	40
4"(DN100)	190	275	215.9	157.2	4-Φ25.4	4-7/8-9UNC	45.1	7	F12	633	50	250	137.5	242	60
5"(DN125)	200	330	266.7	185.7	4-Φ28.6	4-1-8UNC	51.5	7	F12	960	88	416	188	282	60
6"(DN150)	210	355	292.1	215.9	8-Φ28.6	4-1-8UNC	54.7	7	F16	1630	118	600	210	345	65
8"(DN200)	230	420	349.2	269.9	8-Φ31.8	4-1 1/8-8UN	62.6	7	F16	3540	166	1079	245	380	80
10"(DN250)	250	510	431.8	323.8	12-Φ34.9	4-1 1/4-8UN	70.5	7	F25	5462	248	1708	292	440	90
12"(DN300)	270	560	489	381	16-Φ34.9	4-1 1/4-8UN	73.7	7	F25	6018	310	2620	320	465	90
14"(DN350)	290	605	527	412.8	16-Φ38.1	4-1 3/8-8UN	76.9	7	F25	10913	394	4062	350	527	120
16"(DN400)	310	685	603.2	469.9	16-Φ41.3	4-1 1/2-8UN	83.2	7	F30	15757	546	5292	405	570	150
18"(DN450)	330	745	654	533.4	16-Φ44.5	4-1 5/8-8UN	89.6	7	F35	19805	728	7395	440	615	150
20"(DN500)	350	815	723.9	584.2	16-Φ44.5	8-1 5/8-8UN	95.9	7	F35	25808	890	9320	543	670	150
22"(DN550)	370	870	777.7	641.4	16-Φ47.6	8-1 3/4-8UN	102.2	7	F40	40258	1100	12260	560	705	180
24"(DN600)	390	940	838.2	692.2	16-Φ50.8	8-1 7/8-8UN	108.6	7	F40	44799	1280	13578	597	735	180
26"(DN650)	410	890	806.4	727	20-Φ44.5	8-1 5/8-8UN	118.2	7	F40	54490	1300	16490	590	730	180
28"(DN700)	430	950	863.6	784	20-Φ47.6	8-1 3/4-8UN	122.9	7	F40	66593	1440	20326	620	780	180
30"(DN750)	450	1020	927.1	841	20-Φ50.8	8-1 7/8-8UN	132.5	7	F48	79506	1680	23400	675		



National standard flange  
three eccentric butterfly valve  
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外形及连接尺寸 Appearance and connect size

PN10

DN	L	D1	D2	D3	N-Φ	n-M	b	f	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	108	165	125	99	4-Φ18	/	20	3	F07	26	14	58	82.5	178	40
2.5"(DN65)	112	185	145	118	4-Φ18	/	20	3	F07	30	17	109	92.5	189	40
3"(DN80)	114	200	160	132	8-Φ18	/	20	3	F07	50	20	165	100	199	40
4"(DN100)	127	220	180	156	8-Φ18	/	22	3	F07	80	24	318	110	209	40
5"(DN125)	140	250	210	184	8-Φ18	/	22	3	F10	120	36	648	165	250	60
6"(DN150)	140	285	240	211	8-Φ22	/	24	3	F10	240	40	932	185	270	60
8"(DN200)	152	340	295	266	8-Φ22	/	24	3	F12	480	62	1970	225	310	60
10"(DN250)	165	395	350	319	12-Φ22	/	26	3	F12	760	80	2689	260	345	60
12"(DN300)	178	445	400	370	12-Φ22	/	26	4	F14	850	100	3930	280	375	80
14"(DN350)	190	505	460	429	16-Φ22	/	26	4	F16	1800	124	5290	315	430	80
16"(DN400)	216	565	515	480	16-Φ26	/	26	4	F16	2000	145	7726	345	465	80
18"(DN450)	222	615	565	530	20-Φ26	/	28	4	F16	2509	195	9856	370	505	90
20"(DN500)	229	670	620	582	20-Φ26	/	28	4	F16	3200	245	12180	410	525	100
24"(DN600)	267	780	725	682	20-Φ30	/	30	5	F25	6350	330	19800	440	605	125
28"(DN700)	292	895	840	794	24-Φ30	/	30	5	F25	6800	470	27600	528.5	670	150
32"(DN800)	318	1015	950	901	24-Φ33	/	32	5	F25	10050	625	35800	580	730	150
36"(DN900)	330	1115	1050	1001	28-Φ33	/	34	5	F25	12500	760	45600	650	790	150
40"(DN1000)	410	1230	1160	1112	28-Φ36	/	34	5	F35	20000	970	65320	720	885	150
48"(DN1200)	470	1455	1380	1328	32-Φ39	/	38	5	F35	30000	1630	96000	830	1000	150
56"(DN1400)	530	1675	1590	1530	36-Φ42	/	42	5	F40	45000	2100	139700	980	1185	180
64"(DN1600)	600	1915	1820	1750	40-Φ48	/	46	5	F40	75000	3400	176000	1055	1325	250
72"(DN1800)	670	2115	2020	1950	44-Φ48	/	50	5	F48	100000	4200	250000	1155	1430	250
80"(DN2000)	540	2325	2230	2150	48-Φ48	/	54	5	F48	130000	5200	360000	1250	1520	250

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National standard flange  
three eccentric butterfly valve  
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外形及连接尺寸 Appearance and connect size

PN16

DN	L	D1	D2	D3	N-Φ	n-M	b	f	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	108	165	125	99	4-Φ18	/	20	3	F07	26	14	58	82.5	178	40
2.5"(DN65)	112	185	145	118	4-Φ18	/	20	3	F07	30	17	109	92.5	189	40
3"(DN80)	114	200	160	132	8-Φ18	/	20	3	F07	60	20	165	100	199	40
4"(DN100)	127	220	180	156	8-Φ18	/	22	3	F07	100	24	318	110	209	40
5"(DN125)	140	250	210	184	8-Φ18	/	22	3	F10	240	36	648	165	250	60
6"(DN150)	140	285	240	211	8-Φ22	/	24	3	F10	340	40	932	185	270	60
8"(DN200)	152	340	295	266	12-Φ22	/	24	3	F12	720	62	1970	225	310	60
10"(DN250)	165	405	355	319	12-Φ26	/	26	3	F12	950	80	2689	260	345	60
12"(DN300)	178	460	410	370	12-Φ26	/	28	4	F14	1300	115	3930	290	395	80
14"(DN350)	190	520	470	429	16-Φ26	/	30	4	F16	2200	140	5290	338	455	80
16"(DN400)	216	580	525	480	16-Φ30	/	32	4	F16	2340	170	7726	375	490	90
18"(DN450)	222	640	585	548	20-Φ30	/	34	4	F16	3300	220	9856	370	505	90
20"(DN500)	229	715	650	609	20-Φ33	/	36	4	F25	5000	260	12180	435	565	100
24"(DN600)	267	840	770	720	20-Φ36	/	38	5	F25	7000	450	19800	486	635	125
28"(DN700)	292	910	840	794	24-Φ36	/	40	5	F25	11000	580	27600	529	670	150
32"(DN800)	318	1025	950	901	24-Φ39	/	42	5	F30	16000	750	35800	580	730	150
36"(DN900)	330	1125	1050	1001	28-Φ39	/	44	5	F30	22000	890	45600	650	790	150
40"(DN1000)	410	1255	1170	1112	28-Φ42	/	46	5	F35	28000	1100	65320	720	885	150
48"(DN1200)	470	1485	1390	1328	32-Φ48	/	52	5	F35	37000	1600	96000	843	1035	180
56"(DN1400)	530	1685	1590	1530	36-Φ48	/	58	5	F40	58000	2500	139700	980	1185	180
64"(DN1600)	600	1930	1820	1750	40-Φ56	/	64	5	F48	105000	3600	176000	1110	1335	250
72"(DN1800)	670	2130	2020	1950	44-Φ56	/	68	5	F48	156000	5000	250000	1155	1430	250
80"(DN2000)	540	2345	2230	2150	48-Φ62	/	70	5	F60	210000	5600	360000	1275	1545	290

外形及连接尺寸 Appearance and connect size

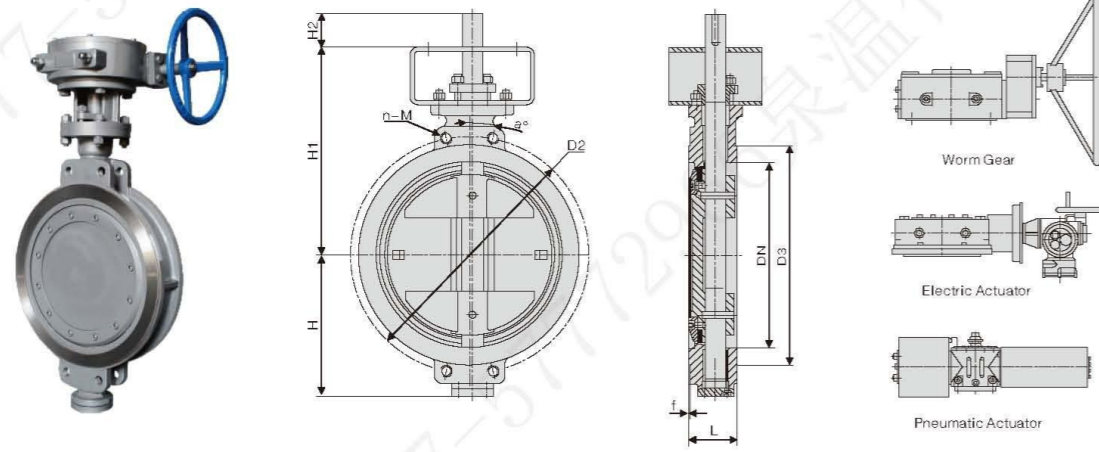
PN25

DN	L	D1	D2	D3	N-Φ	n-M	b	f	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	108	165	125	99	4-Φ18	/	20	3	F07	40	14	58	82.5	178	40
2.5"(DN65)	112	185	145	118	8-Φ18	/	22	3	F07	50	17	109	92.5	189	40
3"(DN80)	114	200	160	132	8-Φ18	/	24	3	F07	90	20	165	100	199	40
4"(DN100)	127	235	190	156	8-Φ22	/	24	3	F07	150	24	318	117.5	209	40
5"(DN125)	140	270	220	184	8-Φ26	/	26	3	F10	320	36	648	165	250	60
6"(DN150)	140	300	250	211	4-Φ26	4-M24	28	3	F10	500	44	932	182	270	60
8"(DN200)	152	360	310	274	8-Φ26	4-M24	30	3	F12	1020	68.2	1970	225	310	60
10"(DN250)	165	425	370	330	8-Φ30	4-M27	32	3	F12	1300	88	2689	260	345	60
12"(DN300)	178	485	430	389	12-Φ30	4-M27	34	4	F14	1800	126.5	3930	290	395	80
14"(DN350)	190	555	490	448	12-Φ33	4-M30	38	4	F16	3200	154	5290	338	455	80
16"(DN400)	216	620	550	503	12-Φ36	4-M33	40	4	F16	3600	187	7726	375	490	90
18"(DN450)	222	670	600	548	16-Φ36	4-M33	42	4	F25	5200	242	9856	405	535	90
20"(DN500)	229	730	660	609	16-Φ36	4-M33	44	4	F25	6200	286	12180	435	565	100
24"(DN600)	267	845	770	720	16-Φ39	4-M36	46	5	F25	10600	495	19800	480	635	125
28"(DN700)	292	960	875	820	20-Φ42	4-M39	50	5	F30	18000	638	27600	528.5	690	150
32"(DN800)	318	1085	990	928	20-Φ48	4-M45	54	5	F35	30000	825	35800	585	815	150
36"(DN900)	330	1185	1090	1028	24-Φ48	4-M45	58	5	F35	38000	979	45600	650	830	150
40"(DN1000)	410	1320	1210	1140	24-Φ56	4-M52	62	5	F35	42000	1210	65320	720	915	180
48"(DN1200)	470	1530	1420	1350	32-Φ56	/	70	5	F40	58000	1760	96000	860	1090	180
56"(DN1400)	530	1755	1640	1560	36-Φ62	/	76	5	F48	88000	2750	139700	985	1230	200
64"(DN1600)	600	1975	1860	1780	40-Φ62	/	84	5	F48	140000	3960	165000	1110	1335	250

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## American standard wafer type three eccentric butterfly valve

美标对夹式三偏心蝶阀



外形及连接尺寸 Appearance and connect size

CLASS 150 Lb

DN	L	D2	D3	f	a°	n-M	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	43	120.7	92.1	/	/	/	F07	26	5	58	65	160	40
2.5"(DN65)	46	139.7	104.8	/	/	/	F07	32	6	109	85	167	40
3"(DN80)	48	152.4	127	/	/	/	F07	80	10	165	85	197	40
4"(DN100)	54	190.5	157.2	/	/	/	F07	142	11	318	107	204	40
5"(DN125)	57	215.9	185.7	/	/	/	F10	264	15	648	138	237	50
6"(DN150)	57	241.3	215.9	/	/	/	F10	362	21	932	147	272	60
8"(DN200)	64	298.5	269.9	/	/	/	F12	785	32	1970	185	307	60
10"(DN250)	71	362	323.8	/	/	/	F14	1080	45	2689	215	354	60
12"(DN300)	81	431.8	381	2	15	4-7/8-8UNC	F14	1510	80	3930	252	395	60
14"(DN350)	92	476.3	412.8	2	15	4-1-8UNC	F16	2458	90	5290	287	445	80
16"(DN400)	102	539.8	469.9	2	11.25	4-1-8UNC	F25	2850	110	7726	317	490	90
18"(DN450)	114	577.9	533.4	2	11.25	4-1 1/8-8UN	F25	4536	170	9856	342	507	90
20"(DN500)	127	635	584.2	2	9	4-1 1/8-8UN	F25	6200	190	12180	372	575	90
22"(DN550)	154	692.2	641.4	2	9	4-1 1/4-8UN	F25	7300	250	15625	409	575	120
24"(DN600)	154	749.3	692.2	2	9	4-1 1/4-8UN	F25	8240	290	19800	439	605	120
26"(DN650)	165	744.5	711	2	5	8-3/4-10UNC	F30	10380	312	23850	510	645	120
28"(DN700)	165	795.3	762	2	4.5	8-3/4-10UNC	F30	11682	392	27600	536	680	120
30"(DN750)	190	846.1	813	2	4.09	8-3/4-10UNC	F30	14340	472	33700	580	710	150
32"(DN800)	190	900.1	864	2	3.75	8-3/4-10UNC	F30	17856	528	35800	581	705	150
34"(DN850)	203	957.3	921	2	4.5	8-7/8-9UNC	F30	23345	588	40400	636	825	150
36"(DN900)	203	1009.6	972	2	4.09	8-7/8-9UNC	F30	27200	648	45600	675	850	150
38"(DN950)	203	1070	1022	2	4.5	8-1-8UNC	F35	31000	784	50560	675	855	150
40"(DN1000)	216	1120.8	1080	2	4.09	8-1-8UNC	F35	32000	926.4	56000	725	885	150
42"(DN1050)	216	1171.6	1130	2	3.75	8-1-8UNC	F35	34000	960	61800	777	952	180
44"(DN1100)	254	1222.4	1181	2	3.461	8-1-8UNC	F35	36000	1000	67800	786	965	180
48"(DN1200)	254	1335.1	1289	2	3.75	8-1 1/8-8UN	F40	45400	1496.8	82500	847	1020	180
52"(DN1300)	279	1436.7	1391	2	3.461	8-1 1/8-8UN	F40	56000	1600	104336	896	1080	180
56"(DN1400)	279	1543	1492	2	3	8-1 1/8-8UN	F40	70500	2000	121000	980	1205	200
60"(DN1500)	318	1662.1	1600	2	3.461	8-1 1/4-8UN	F40	86000	2500	160380	995	1225	200

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## American standard wafer type three eccentric butterfly valve

美标对夹式三偏心蝶阀

外形及连接尺寸 Appearance and connect size

CLASS 300 Lb

DN	L	D2	D3	f	a°	n-M	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	43	127	92.1	/	/	/	F07	78	6	58	65	160	40
2.5"(DN65)	46	149.2	104.8	/	/	/	F07	88	7	109	85	167	40
3"(DN80)	48	168.3	127	/	/	/	F07	144	11	165	100	207	40
4"(DN100)	54	200	157.2	/	/	/	F07	258	13	318	120	222	45
5"(DN125)	59	235	185.7	2	22.5	4-3/4-10UNC	F10	412	21	648	165	272	60
6"(DN150)	59	269.9	215.9	2	15	4-3/4-10UNC	F12	798	24	682	185	292	60
8"(DN200)	73	330.2	269.9	2	15	4-7/8-9UNC	F14	1960	36	1230	215	345	80
10"(DN250)	83	387.4	323.8	2	11.25	4-1-8UNC	F16	2270	57.6	2370	252	400	80
12"(DN300)	92	450.8	381	2	11.25	4-1 1/8-8UN	F16	2780	80	3520	282	440	85
14"(DN350)	117	514.4	412.8	2	9	4-1 1/8-8UN	F25	5680	110	4782	330	485	90
16"(DN400)	133	571.5	469.9	2	9	4-1 1/4-8UN	F25	7800	160	6280	365	510	90
18"(DN450)	149	628.6	533.4	2	7.5	4-1 1/4-8UN	F25	8956	240	7980	405	550	120
20"(DN500)	159	685.8	584.2	2	7.5	4-1 1/4-8UN	F30	11518	300	10800	435	580	120
22"(DN550)	181	743	641.4	2	7.5	4-1 1/2-8UN	F30	15800	350	13030	480	610	150
24"(DN600)	181	812.8	692.2	2	7.5	4-1 1/2-8UN	F30	18393	400	16180	515	645	150
26"(DN650)	229	803.3	737	2	5.625	8-1 1/4-8UN	F35	24000	500	19327	575	700	150
28"(DN700)	229	857.2	787	2	5	8-1 1/4-8UN	F35	27478	656	22410	600	725	180
30"(DN750)	229	920.8	845	2	5	8-1 3/8-8UN	F35	38971	800	27090	635	765	180
32"(DN800)	241	977.9	902	2	5.625	8-1 1/2-8UN	F40	41150	928	33050	665	855	180
34"(DN850)	241	1031.9	953	2	5	8-1 1/2-8UN	F40	48200	1000	37320	686	880	180
36"(DN900)	241	1089	1010	2	5.625	8-1 5/8-8UN	F40	53700	1148	42090	712	920	180
38"(DN950)	241	1139.8	1060	2	5	8-1 5/8-8UN	F40	63000	1280	47000	764	950	200
40"(DN1000)	300	1190.6	1114	2	4.5	8-1 5/8-8UN	F40	68370	1420	48964	784	980	200
42"(DN1050)	300	1244.6	1168	2	5	8-1 3/4-8UN	F40	75400	1560	53700	809	985	200
44"(DN1100)	300	1295.4	1219	2	4.5	8-1 3/4-8UN	F40	82650	1800	62500	839	1010	200
48"(DN1200)	360	1416	1327	2	4.5	8-1 7/8-8UN	F48	108000	2120	69350	916	1090	250

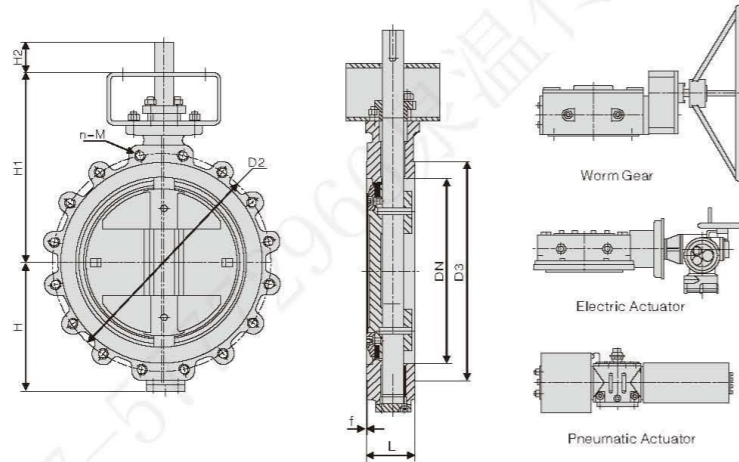
外形及连接尺寸 Appearance and connect size

CLASS 600 Lb

DN	L	D2	D3	f	a°	n-M	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	54	127	92.1	7	22.5	4-5/8-11UNC	F07	162	7	42	82.5	190	40
2.5"(DN65)	54	149.2	104.8	7	22.5	4-3/4-10UNC	F07	208	9	72	95	210	40
3"(DN80)	54	168.3	127	7	22.5	4-3/4-10UNC	F10	340	13	107	100	227	40
4"(DN100)	64	215.9	157.2	7	22.5	4-7/8-9UNC	F12	633	42	250	120	242	60
5"(DN125)	78	266.7	185.7	7	22.5	4-1-8UNC	F12	960	45	416	188	282	60
6"(DN150)	78	292.1	215.9	7	15	4-1-8UNC	F16	1630	50	600	210	345	60
8"(DN200)	102	349.2	269.9	7	15	4-1 1/8-8UN	F16	3540	60	1079	245	380	80
10"(DN250)	117	431.8	323.8	7	11.25	4-1 1/4-8UN	F25	5462	105	1708	287	440	90
12"(DN300)	140	489	381	7	9	4-1 1/4-8UN	F25	6018	150	2620	315	475	90
14"(DN350)	155	527	412.8	7	9	4-1 3/8-8UN	F25	10913	220	4062	357	510	120
16"(DN400)	178	603.2	469.9	7	9	4-1 1/2-8UN	F30	15757	348.8	5292	401	570	150
18"(DN450)	200	654	533.4	7	9	4-1 5/8-8UN	F35	19805	509.6	7395	437	615	150
20"(DN500)	216	723.9	584.2	7	7.5	8-1 5/8-8UN	F35	25808	608	9320	543	670	150
22"(DN550)	232	777.7	641.4	7	7.5	8-1 3/4-8UN	F40	40258	650	12260	560	705	180
24"(DN600)	232	838.2	692.2	7	7.5	8-1 7/8-8UN	F40	44799	710.4	13578	597	735	180

M/P: 13706698570 13676525161 18296678660

American Standard lug type  
three eccentric butterfly valve  
美标凸耳式三偏心蝶阀



外形及连接尺寸 Appearance and connect size

CLASS 150 Lb

DN	L	D2	D3	f	n-M	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	43	120.7	92.1	2	4-5/8-11UNC	F07	26	5	58	65	160	40
2.5"(DN65)	46	139.7	104.8	2	4-5/8-11UNC	F07	32	6	109	85	167	40
3"(DN80)	48	152.4	127	2	4-5/8-11UNC	F07	80	8	165	85	197	40
4"(DN100)	54	190.5	157.2	2	8-5/8-11UNC	F07	142	12	318	107	204	40
5"(DN125)	57	215.9	185.7	2	8-3/4-10UNC	F10	264	20	648	138	237	50
6"(DN150)	57	241.3	215.9	2	8-3/4-10UNC	F10	362	25	932	147	272	60
8"(DN200)	64	298.5	269.9	2	8-3/4-10UNC	F12	785	36	1970	185	307	60
10"(DN250)	71	362	323.8	2	12-7/8-9UNC	F14	1080	60	2689	215	355	60
12"(DN300)	81	431.8	381	2	12-7/8-9UNC	F14	1510	80	3930	252	395	60
14"(DN350)	92	476.3	412.8	2	12-1-8UNC	F16	2458	120	5290	287	445	80
16"(DN400)	102	539.8	469.9	2	16-1-8UNC	F25	2850	140.8	7726	317	490	90
18"(DN450)	114	577.9	533.4	2	16-1 1/8-8UN	F25	4536	180	9856	342	507	90
20"(DN500)	127	635	584.2	2	20-1 1/8-8UN	F25	6200	220	12180	372	535	90
22"(DN550)	154	692.2	641.4	2	20-1 1/4-8UN	F25	7300	250	15625	409	575	120
24"(DN600)	154	749.3	692.2	2	20-1 1/4-8UN	F25	8240	300	19800	439	605	120
26"(DN650)	165	744.5	711	2	36-3/4-10UNC	F30	10380	400	23850	510	645	120
28"(DN700)	165	795.3	762	2	40-3/4-10UNC	F30	11682	456	27600	536	680	120
30"(DN750)	190	846.1	813	2	44-3/4-10UNC	F30	14340	512	33700	580	710	150
32"(DN800)	190	900.1	864	2	48-3/4-10UNC	F30	17856	560	35800	581	705	150
34"(DN850)	203	957.3	921	2	40-7/8-9UNC	F30	23345	620	40400	636	825	150
36"(DN900)	203	1009.6	972	2	44-7/8-9UNC	F30	27200	680	45600	675	850	150
38"(DN950)	203	1070	1022	2	40-1-8UNC	F35	31000	850	50560	675	855	150
40"(DN1000)	216	1120.8	1080	2	44-1-8UNC	F35	32000	1000	56000	725	885	150
42"(DN1050)	216	1171.6	1130	2	48-1-8UNC	F35	34000	1136	61800	777	952	180
44"(DN1100)	254	1222.4	1181	2	52-1-8UNC	F35	36000	1200	67800	786	965	180
48"(DN1200)	254	1335.1	1289	2	44-1 1/8-8UN	F40	45400	1337.6	82500	847	1020	180

M/P: 13706698570 13676525161 18296678660

American Standard lug type  
three eccentric butterfly valve  
美标凸耳式三偏心蝶阀

外形及连接尺寸 Appearance and connect size

CLASS 300 Lb

DN	L	D2	D3	f	n-M	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	43	127	92.1	2	8-5/8-11UNC	F07	78	7	58	65	160	40
2.5"(DN65)	46	149.2	104.8	2	8-3/4-10UNC	F07	88	9	109	85	167	40
3"(DN80)	48	168.3	127	2	8-3/4-10UNC	F07	144	13	165	85	182	40
4"(DN100)	54	200	157.2	2	8-3/4-10UNC	F07	258	18	318	100	204	45
5"(DN125)	59	235	185.7	2	8-3/4-10UNC	F10	412	25	648	165	272	60
6"(DN150)	59	269.9	215.9	2	12-3/4-10UNC	F12	798	32	682	185	292	60
8"(DN200)	73	330.2	269.9	2	12-7/8-9UNC	F14	1960	51.2	1230	215	345	80
10"(DN250)	83	387.4	323.8	2	16-1-8UNC	F16	2270	80	2370	252	400	80
12"(DN300)	92	450.8	381	2	16-1 1/8-8UN	F16	2780	125.6	3520	282	440	85
14"(DN350)	117	514.4	412.8	2	20-1 1/8-8UN	F25	5680	204	4782	330	485	90
16"(DN400)	133	571.5	469.9	2	20-1 1/4-8UN	F25	7800	276.8	6280	365	510	90
18"(DN450)	149	628.6	533.4	2	24-1 1/4-8UN	F25	8956	360	7980	405	550	120
20"(DN500)	159	685.8	584.2	2	24-1 1/4-8UN	F30	11518	460	10800	435	580	120
22"(DN550)	181	743	641.4	2	24-1 1/2-8UN	F30	15800	550	13030	480	610	150
24"(DN600)	181	812.8	692.2	2	24-1 1/2-8UN	F30	18393	630	16180	520	640	150
26"(DN650)	229	803.3	737	2	32-1 1/4-8UN	F35	24000	630	19327	575	700	150
28"(DN700)	229	857.2	787	2	36-1 1/4-8UN	F35	27478	800	22410	600	725	180
30"(DN750)	229	920.8	845	2	36-1 3/8-8UN	F35	38971	960	27090	640	765	180
32"(DN800)	241	977.9	902	2	32-1 1/2-8UN	F40	41150	1224	33050	665	855	180
34"(DN850)	241	1031.9	953	2	36-1 1/2-8UN	F40	48200	1280	37320	686	880	180
36"(DN900)	241	1089	1010	2	32-1 1/5-8UN	F40	53700	1336	42090	712	920	180
38"(DN950)	241	1139.8	1060	2	36-1 5/8-8UN	F40	63000	1580	47000	764	950	200
40"(DN1000)	300	1190.6	1114	2	40-1 5/8-8UN	F40	68370	1832	48964	784	980	200
42"(DN1050)	300	1244.6	1168	2	36-1 3/4-8UN	F40	75400	2137.6	53700	809	985	200
44"(DN1100)	300	1295.4	1219	2	40-1 3/4-8UN	F40	82650	2500	62500	839	1010	200
48"(DN1200)	360	1416	1327	2	40-1 7/8-8UN	F48	108000	2880	69350	916	1090	250

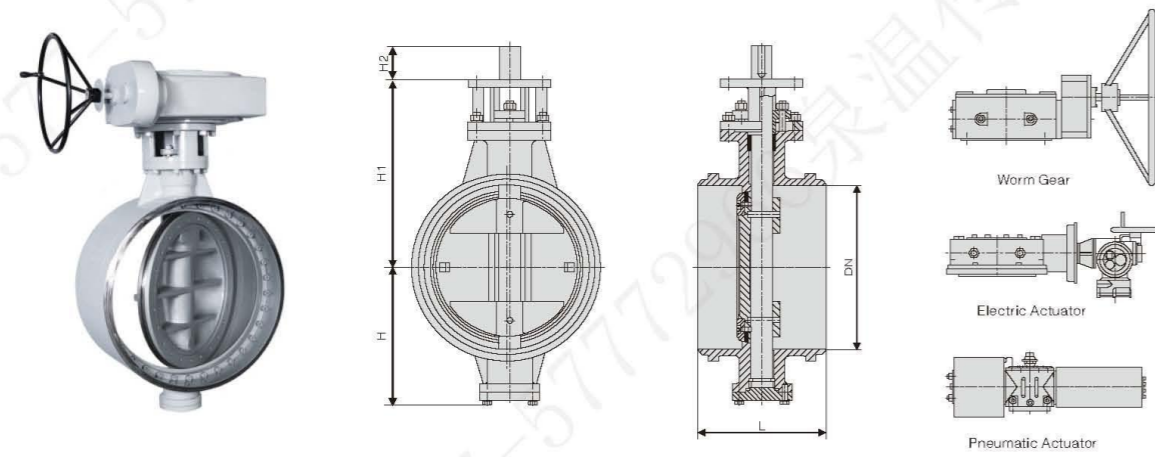
外形及连接尺寸 Appearance and connect size

CLASS 600 Lb

DN	L	D2	D3	f	n-M	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	54	127	92.1	7	8-5/8-11UNC	F07	162	9	42	82.5	190	40
2.5"(DN65)	54	149.2	104.8	7	8-3/4-10UNC	F07	208	13	72	95	210	40
3"(DN80)	54	168.3	127	7	8-3/4-10UNC	F10	340	17	107	100	227	40
4"(DN100)	64	215.9	157.2	7	8-7/8-9UNC	F12	633	25	250	120	242	60
5"(DN125)	78	266.7	185.7	7	8-1-8UNC	F12	960	43	416	188	282	60
6"(DN150)	78	292.1	215.9	7	12-1-8UNC	F16	1630	62	600	210	345	60
8"(DN200)	102	349.2	269.9	7	12-1 1/8-8UN	F16	3540	100	1079	245	380	80
10"(DN250)	117	431.8	323.8	7	16-1 1/4-8UN	F25	5462	140	1708	287	440	90
12"(DN300)	140	489	381	7	20-1 1/4-8UN	F25	6018	210	2620	315	475	90
14"(DN350)	155	527	412.8	7	20-1 3/8-8UN	F25	10913	350	4062	357	510	120
16"(DN400)	178	603.2	469.9	7	20-1 1/2-8UN	F30	15757	530	5292	401	570	150
18"(DN450)	200	654	533.4	7	20-1 5/8-8UN	F35	19805	720	7395	437	615	150
20"(DN500)	216	723.9	584.2	7	24-1 5/8-8UN	F35	25808	890	9320	543	670	150
22"(DN550)	232	777.7	641.4	7	24-1 3/4-8UN	F40	40258	1000	12260	560	705	180
24"(DN600)	232	838.2	692.2	7	24-1 7/8-8UN	F40	44799	1280	13578	597	735	180

M/P: 13706698570 13676525161 18296678660

American standard butt welding  
three eccentric butterfly valve  
美标对焊式三偏心蝶阀



外形及连接尺寸 Appearance and connect size

CLASS 150 Lb

DN	L	ISO5211	Nm	Weight	CV	H	H1	H2
6"(DN150)	210	F10	362	41	932	147	270	60
8"(DN200)	230	F12	785	50	1970	205	310	60
10"(DN250)	250	F12	1080	74	2689	230	340	60
12"(DN300)	270	F14	1510	120	3930	276	375	60
14"(DN350)	290	F16	2458	146	5290	304	435	80
16"(DN400)	310	F16	2850	200	7726	322	460	90
18"(DN450)	330	F25	4536	236	9856	358	505	90
20"(DN500)	350	F25	6200	300	12180	388	540	90
24"(DN600)	390	F25	8240	400	19800	453	610	125
26"(DN650)	410	F30	10380	460	23850	476	645	125
28"(DN700)	430	F30	11682	500	27600	513	670	125
30"(DN750)	450	F30	14340	570	33700	581	710	150
32"(DN800)	470	F30	17856	620	35800	626	735	150
36"(DN900)	510	F30	27200	794	45600	639	805	150
40"(DN1000)	550	F35	32000	1250	56000	695	900	150
42"(DN1050)	570	F35	34000	1300	61800	777	952	180
44"(DN1100)	590	F35	36000	1360	67800	810	980	180
48"(DN1200)	630	F40	45400	1800	82500	860	1045	180
52"(DN1300)	670	F40	56000	1900	104336	915	1080	180
56"(DN1400)	710	F40	70500	2000	121000	946	1205	200
60"(DN1500)	750	F40	86000	3300	160380	1040	1225	200

M/P: 13706698570 13676525161 18296678660

American standard butt welding  
three eccentric butterfly valve  
美标对焊式三偏心蝶阀

外形及连接尺寸 Appearance and connect size

CLASS 300 Lb

DN	L	ISO5211	Nm	Weight	CV	H	H1	H2
6"(DN150)	210	F12	798	50	682	160	270	60
8"(DN200)	230	F14	1960	66	1230	200	325	80
10"(DN250)	250	F16	2270	90	2370	224	366	80
12"(DN300)	270	F16	2780	140	3520	270	413	85
14"(DN350)	290	F25	5680	160	4782	296	480	90
16"(DN400)	310	F25	7800	240	6280	350	510	90
18"(DN450)	330	F25	8956	300	7980	385	540	120
20"(DN500)	350	F30	11518	340	10800	426	580	120
24"(DN600)	390	F30	18393	508	16180	458	650	150

M/P: 13706698570 13676525161 18296678660

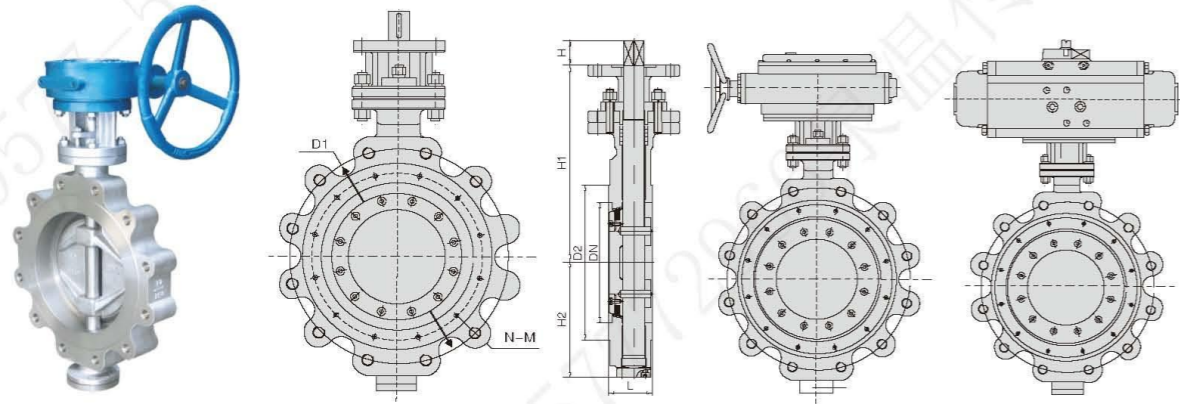
外形及连接尺寸 Appearance and connect size

CLASS 600 Lb

DN	L	ISO5211	Nm	Weight	CV	H	H1	H2
6"(DN150)	210	F16	1630	55	600	180	340	65
8"(DN200)	230	F16	3540	74	1079	228	375	80
10"(DN250)	250	F25	5462	100	1708	238	385	90
12"(DN300)	270	F25	6018	150	2620	280	442	90
14"(DN350)	290	F25	10913	190	4062	304	477	120
16"(DN400)	310	F30	15757	300	5292	365	525	150
18"(DN450)	330	F35	19805	380	7395	400	575	150
20"(DN500)	350	F35	25808	490	9320	436	640	150
24"(DN600)	390	F40	44799	800	13578	495	722	180

National standard lug type  
three eccentric butterfly valve

国标凸耳式三偏心蝶阀



外形及连接尺寸 Appearance and connect size (mm)

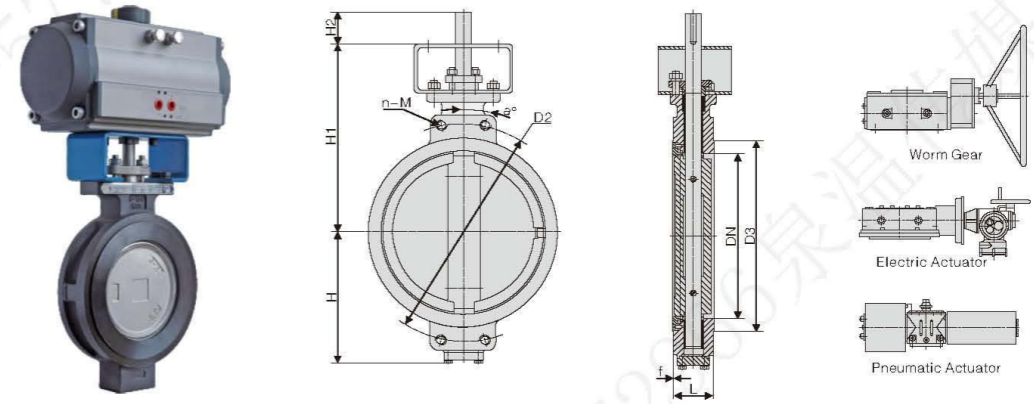
PN10

公称直径 Nominal diameter	L	D1	D2	H	H1	H2	N-d
80	49	160	132	50	310	75	8-18
100	56	180	156	50	325	110	8-18
125	64	210	184	50	360	135	8-18
150	70	240	211	55	395	155	8-22
200	71	295	266	60	480	185	8-22
250	76	350	319	65	550	225	12-22
300	83	400	370	65	610	255	12-22
350	92	460	429	70	710	305	16-22
400	102	515	480	70	755	325	16-26
450	114	565	530	100	835	360	20-26
500	127	620	582	100	900	370	20-26
600	154	725	682	105	1060	410	20-30
700	165	840	794	105	1170	480	24-30
800	190	950	901	110	1320	550	24-33
900	203	1050	1001	130	1440	600	28-33
1000	216	1160	1112	140	1640	660	28-36
1200	254	1380	1328	140	1720	640	32-39
1400	390	1590	1530	170	2010	830	36-42
1600	440	1820	1750	180	2255	980	40-48
1800	490	2020	1950	190	2480	1050	44-48
2000	540	2230	2150	190	2660	1150	48-48

M/P: 13706698570 13676525161 18296678660

High performance  
butterfly valve

高性能蝶阀



外形及连接尺寸 Appearance and connect size

CLASS 150 Lb

DN	L	D2	D3	f	a°	n-M	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	43	120.7	92.1	/	/	/	F07	24	4	65	64	162	40
2.5"(DN65)	46	139.7	104.8	/	/	/	F07	35	5.5	113	70	172	40
3"(DN80)	48	152.4	127	/	/	/	F07	47	6	172	85	182	40
4"(DN100)	54	190.5	157.2	/	/	/	F07	75	8	385	92	208	40
5"(DN125)	57	215.9	185.7	/	/	/	F07	112	10	658	120	222	40
6"(DN150)	57	241.3	215.9	/	/	/	F10	169	14	1050	150	272	40
8"(DN200)	64	298.5	269.9	/	/	/	F10	325	23	2180	187	307	60
10"(DN250)	71	362	323.8	/	/	/	F12	558	29	3280	215	337	60
12"(DN300)	81	431.8	381	/	/	/	F14	1200	40	5100	224	380	80
14"(DN350)	92	476.3	412.8	/	/	/	F16	1620	70	5800	268	405	80
16"(DN400)	102	539.8	469.9	2	11.25	4-1-8UNC	F16	2130	82	9287	317	455	80
18"(DN450)	114	577.9	533.4	2	11.25	4-1 1/8-8UN	F16	3100	115	11400	347	485	90
20"(DN500)	127	635	584.2	2	9	4-1 1/8-8UN	F16	4000	220	13800	380	510	90
22"(DN550)	154	692.2	641.4	2	9	4-1 1/4-8UN	F25	5200	240	17000	430	575	90
24"(DN600)	154	749.3	692.2	2	9	4-1 1/4-8UN	F25	5800	260	21600	452	605	90

M/P: 13706698570 13676525161 18296678660

外形及连接尺寸 Appearance and connect size

CLASS 300 Lb

DN	L	D2	D3	f	a°	n-M	ISO5211	Nm	Weight	CV	H	H1	H2
2"(DN50)	43	127	92.1	/	/	/	F07	70	5	65	64	162	40
2.5"(DN65)	46	149.2	104.8	/	/	/	F07	95	6	113	70	172	40
3"(DN80)	48	168.3	127	/	/	/	F07	112	7	172	85	182	40
4"(DN100)	54	200	157.2	/	/	/	F07	146	10	385	92	208	40
5"(DN125)	59	235	185.7	2	22.5	4-3/4-10UNC	F07	248	13	658	165	250	60
6"(DN150)	59	269.9	215.9	2	15	4-3/4-10UNC	F10	378	16	1050	172	260	60
8"(DN200)	73	330.2	269.9	2	15	4-7/8-9UNC	F12	852	23	1895	210	320	60
10"(DN250)	83	387.4	323.8	2	11.25	4-1-8UNC	F14	1390	55	3050	247	355	60
12"(DN300)	92	450.8	381	2	11.25	4-1 1/8-8UN	F16	2200	70	4800	286	411	80
14"(DN350)	117	514.4	412.8	2	9	4-1 1/8-8UN	F16	3450	100	5395	321	447	90
16"(DN400)	133	571.5	469.9	2	9	4-1 1/4-8UN	F25	4080	150	7900	362	510	90
18"(DN450)	149	628.6	533.4	2	7.5	4-1 1/4-8UN	F25	5920	220	10086	405	550	110
20"(DN500)	159	685.8	584.2	2	7.5	4-1 1/4-8UN	F25	7900	300	11300	435	590	120
22"(DN550)	181	743	641.4	2	7.5	4-1 1/2-8UN	F25	10500	330	13000	480	610	150
24"(DN600)	181	812.8	692.2	2	7.5	4-1 1/2-8UN	F25	11800	360	16980	505	645	150