

# 企业简介 Company Profile

中国·众信阀门有限公司坐落于中国阀门城，温州龙湾滨海园区。是集研发、生产制造、销售服务一体式全焊接球阀系列为主打拳头产品、水力阀系列及蝶阀截止系列产品专业制造商。企业生产设备先进，配套完善，并采用先进的生产工艺和技术，国际化质量保证和控制流程，以及先进的生产运营管理，保证产品合格出厂。同时也得到广大新老客户一致好评！

目前产品有：一体式全焊接球阀、直埋式全焊接球阀、双放散式焊接球阀、天然气球阀、法兰式焊接球阀、焊接过滤器、水力控制阀、锁闭阀、闸阀、截止阀、蝶阀、止回阀等。产品口径：DN15-DN1600；工作压力：0.6MPa-42MPa；工作温度：-196℃-+550℃。材质：碳素钢、合金钢、热耐钢、不锈钢；操作方式：手动、齿轮、电动、气动、液动等。主要产品满足ANSI、API、EN、BS、DIN、ASME、ISO等不同领域和国家的相关技术标准，产品应用于石油、化工、天然气、热力、船舶工业、电力、制药、冶金、食品、军工、建筑工程等行业。

全焊接球阀在欧美国家各领域所使用非常广泛。其优越的品质和高性能的稳定性是普通铸钢球阀所无法达到的，其使用寿命远远大于铸钢球阀。我国是在最近几年才使用全焊接球阀，主要是依赖进口全焊接球阀，由于价格高，售后服务跟不上而不能大规模的使用。由于国内的全焊接球阀在技术上存在着诸多问题。所以目前也不能大规模的使用到各个领域。我公司所生产的全焊接球阀与国外的同等全焊接球阀在质量上是一致的。由于全焊接球阀的整体结构采用全焊接的工艺结构，使阀门的内、外密封得到了极大的提高，阀门的重量得到了很大的降低，使阀门的安装变得更为便捷，不仅降低了工程施工的成本，也节省了时间。

秉承质量求生存、创新求发展、诚心为客户的经营理念，以先进齐全的加工设备和工艺，完备的检测手段和质量保证体系，全面实施客户资源管理系统，对客户的全部资料，意见及建议被仔细地分类、存档和答复，并定期定项进行统计分析，从而促进新产品信息的建立，产品质量管理，以及零距离服务的理念为广大用户创造价值。众信阀门在科技不断进步、国际化程度不断加强的今天，愿与新老客户，精诚合作，共同发展！

China Zhongxin Valve Co., Ltd. is located in Longwan Binhai Park, Wenzhou, China Valve City. It is a professional manufacturer of all-welded ball valve series integrating research and development, production, manufacturing, sales and service, hydraulic valve series and butterfly valve cut-off series. The enterprise has advanced production equipment and complete supporting facilities, and adopts advanced production processes and technologies, international quality assurance and control processes, and advanced production and operation management to ensure that the products are qualified and delivered. At the same time, it has also been unanimously praised by the majority of new and old customers!

At present, the products include: integrated all-welded ball valve, direct-buried all-welded ball valve, double-vented welding ball valve, natural gas ball valve, flanged welding ball valve, welding filter, hydraulic control valve, lock valve, gate valve, stop valve, butterfly valve, check valve, etc. Product diameter: DN15-DN1600; Working pressure: 0.6MPa-42MPa; Working temperature: -196℃-+550℃. Material: carbon steel, alloy steel, heat resistant steel, stainless steel; Operation mode: manual, gear, electric, pneumatic, hydraulic, etc. The main products meet the relevant technical standards of different fields and countries such as ANSI, API, EN, BS, DIN, ASME, ISO, etc. The products are used in petroleum, chemical industry, natural gas, thermal power, shipbuilding industry, electric power, pharmacy, metallurgy, food, military industry, construction engineering and other industries.

All welded ball valves are widely used in various fields in European and American countries. Its superior quality and high performance stability are unmatched by ordinary cast steel ball valves, and its service life is far longer than that of cast steel ball valves. China has only used all-welded ball valves in recent years, mainly relying on imported all-welded ball valves, which cannot be used on a large scale due to high prices and after-sales service. There are many technical problems in domestic all-welded ball valves. Therefore, it cannot be used in various fields on a large scale. The quality of the all-welded ball valve produced by our company is consistent with that of the foreign equivalent all-welded ball valve. Because the overall structure of the all-welded ball valve adopts the all-welded process structure, the internal and external sealing of the valve has been greatly improved, the weight of the valve has been greatly reduced, and the installation of the valve has become more convenient, which not only reduces the cost of engineering construction, but also saves time.

Adhering to the business philosophy of quality for survival, innovation for development, and sincerity for customers, with advanced and complete processing equipment and technology, complete testing methods and quality assurance system, we fully implement the customer resource management system, carefully classify, archive and respond to all customers' data, opinions and suggestions, and regularly conduct statistical analysis on the items, so as to promote the establishment of new product information and product quality management, And the concept of zero-distance service to create value for the majority of users. With the continuous progress of science and technology and the strengthening of internationalization, Zhongxin Valve is willing to sincerely cooperate with new and old customers for common development!

# 荣誉证书 Certificate of honor

多年来，我们以自己辛勤的汗水获得了多项认证，赢得了方方面面消费者和同行的认可，在以后的征程中，我们将再接再厉，再创辉煌！

“一份耕耘一份收获”，我们以优质的产品、良好的信誉，赢得了社会的一致好评，并受到了客户的肯定，各种荣誉纷至沓来。

Over the years, we have won a number of certifications with our hard work and won the recognition of consumers and peers in all aspects. In the future, we will continue to make great achievements!

"One piece of work, one piece of harvest". With high-quality products and good reputation, we have won the unanimous praise of the society and won the affirmation of customers, and various honors have come in succession.



# 产品集锦

## Product collection

全焊接球阀专业制造，只为优质工程  
All welded ball valves are professionally manufactured for quality engineering only



# 目录

## Contents

全焊接球阀专业制造，只为优质工程  
All welded ball valves are professionally manufactured for quality engineering only

焊接球阀 WELDED BALL VALVE	01	•
阀门型号表示含义 VALVE MODEL MEANING	02	•
全焊接球阀安装注意事项 ALL WELDED BALL VALVE INSTALLATION PRECAUTIONS	03	•
标准型全焊接钢制球阀 STANDARD ALL-WELDED STEEL BALL VALVE	05	•
全口径焊接钢制球阀 FULL-DIAMETER WELDED STEEL BALL VALVE	07	•
法兰全焊接钢制球阀 FLANGED ALL WELDED STEEL BALL VALVE	08	•
标准径焊接式过滤球阀 STANDARD DIAMETER WELDED FILTER BALL VALVE	09	•
全焊接流量控制平衡阀 FULLY WELDED FLOW CONTROL BALANCING VALVE	10	•
直埋式球阀 DIRECT-BURIED BALL VALVE	11	•
Q41F燃气浮动式球阀 Q41F GAS FLOATING BALL VALVE	12	•
Q47/Q347/Q647/Q947F/H固定球阀 TRUNNION MOUNTED BALL VALVE	13	•

焊接球阀在各个领域使用都非常广泛，其优越的品质和高性能的稳定是普通铸钢球阀所无法达到的，全焊接球阀使用寿命远远大于铸钢球阀，全焊接球阀广泛应用于城市燃气、城市供热、石油化工、造船、钢铁、调压站、发电厂等各类管道设备上。

Welded ball valves are widely used in various fields. Their superior quality and high performance stability are not achieved by ordinary cast steel ball valves. The service life of all welded ball valves is far greater than that of cast steel ball valves. All welded ball valves are widely used in city gas, urban heating, petrochemical, shipbuilding, steel, pressure regulating stations, power plants and other types of pipeline equipment.

## 基本信息 Basic Information

名称 Name	焊接球阀 Welded ball valve
应用领域 Application field	城市燃气、城市供热、石油化工等 City gas, urban heating, petrochemicals, etc.
材料 Material	不锈钢、碳钢 Stainless steel, carbon steel
温度范围 Temperature range	-29-200℃
检测标准 Testing standard	API 598

## 简介 Introduction

焊接球阀可以直埋于地下，不用建高大阀门井减少工程造价，同时也可以避免操作阀门时造成人员的伤害，焊接球阀能长期可靠运行使用，在阀门正常操作使用的情况下，质保期20年。

The welded ball valve can be buried directly in the ground. It is not necessary to build a large valve well to reduce the construction cost. At the same time, it can avoid the injury caused by the operation of the valve. The welded ball valve can be used for long-term reliable operation. In the case of normal operation of the valve, the warranty period is 20 years.

## 技术特点 Technical characteristics

- 1、阀体结构整体式焊接，不会有外部泄漏现象。
- 2、阀座由PTFE密封环及弹簧组成对压力和温度的变化适应能力强，在使用范围内不会产生任何泄漏。
- 3、阀杆的防渗漏结构、阀杆底部有1个PTFE自封密封垫和1个O型密封圈，上面有2个O型密封圈、两个PTFE密封垫组成，确保无泄露。
- 4、阀体材料与管道材质相同，不会出现应力不均，也不会由于地震及车辆经过地面时而挤压变形。
- 5、阀体轻且易于保温。
- 6、直埋式球阀可以直接埋于地下，不用建高大阀门井，只需地面上设置小型浅井，大大节省施工费用及工程时间。
- 7、可根据管道的施工及设计要求调整阀体的长短和阀杆高度。
- 8、球体的加工精度非常精密操作轻便，无不良干涉。
- 9、有焊接和法兰两种连接方式。
- 10、操作方式:手柄, 齿轮(垂直/水平)
- 11、在阀门正常操作使用的情况下，质保期20年。

1. The valve body structure is welded integrally without any external leakage.
2. The valve seat is composed of PTFE sealing ring and spring. It has strong adaptability to pressure and temperature changes and will not cause any leakage within the scope of use.
3. The anti-leakage structure of the valve stem, the bottom of the valve stem has a PTFE self-sealing gasket and an O-ring seal. The top has two O-rings and two PTFE gaskets to ensure no leakage.
4. The valve body material is the same as the pipe material, there will be no uneven stress, and it will not be deformed due to earthquake and vehicle passing through the ground.
5. The valve body is light and easy to keep warm.
6. The direct-buried ball valve can be buried directly in the ground. It is not necessary to build a large valve well. It only needs to set up a small shallow well on the ground, which greatly saves construction costs and engineering time.
7. The length of the valve body and the height of the valve stem can be adjusted according to the construction and design requirements of the pipeline.
8. the processing accuracy of the ball is very precise and easy to operate, no adverse interference.
10. There are two connection methods of welding and flange.
11. operating mode: handle, gear (vertical/horizontal)
12. In the case of normal operation of the valve, the warranty period is 20 years.

## 产品结构 Product structure

- 1.本阀门采用碳钢无缝钢管压制成型整体式焊接球阀。
- 2.阀杆采用AISI303不锈钢、阀体采用AISI304不锈钢，经精加工研磨制作，具有优良密封性能及耐腐蚀性能。
- 3.密封采用碳强化PTFE斜面弹性密封圈负压在球面上，使密封达到零泄漏，使用寿命长等优点。
- 4.本阀门连接方式:有焊接、螺纹、法兰等供用户选择。传动方式:采用手柄、涡轮、气动、电动等传动结构、开关灵活轻便。
- 5.本阀门结构紧凑、重量轻、易于保温、便于安装。此阀一般水平安装。
- 6.一体式焊接球阀吸取国外先进技术，结合国内实际情况研制而成，以国产代替进口，填补国内空白。广泛应用于天然气、石油、供热、化工及热电网等长输管线领域。

1. This valve adopts carbon steel seamless steel pipe to press and form integral welded ball valve.
2. The valve stem is made of AISI 303 stainless steel and the valve body is made of AISI 304 stainless steel. It is made by precision grinding and has excellent sealing performance and corrosion resistance.
3. The seal adopts the carbon-reinforced PTFE beveled elastic sealing ring to have a negative pressure on the spherical surface, so that the seal reaches zero leakage and has a long service life.
4. The connection mode of the valve: there are welding, thread, flange, etc. for the user to choose. Transmission mode: It adopts the transmission structure of handle, turbine, pneumatic and electric, and the switch is flexible and light.
5. The valve is compact in structure, light in weight, easy to keep warm, and easy to install. This valve is generally installed horizontally.
6. The integrated welded ball valve draws on foreign advanced technology and is developed in accordance with the actual situation in the country. It replaces imports with domestic products and fills the domestic gap. Widely used in long-distance pipelines such as natural gas, petroleum, heating, chemical and thermoelectric pipe networks.

## 特征 Feature

1. 阀体是由钢管焊接而成。
2. 球垫采用强化聚四氟乙烯。
3. 阀杆采用防爆设计。
4. 温度范围:-29-200℃
5. 驱动方式:手动或涡轮传动。

1. The valve body is welded by steel pipe.
2. The ball pad is made of reinforced polytetrafluoroethylene.
3. The valve stem is explosion-proof.
4. Temperature range: -29-200 °C
5. Drive mode: manual or turbine drive.

阀门型号通常应表示阀门类型、驱动方式、连接形式、结构特点、公称压力、密封面材料、阀体材料等要素。阀门型号的标准化对阀门的设计、选用、经销、提供了方便。当今阀门的类型和材料种类越来越多，阀门型号的编制也愈来愈复杂。我国虽然有阀门型号编制的统一标准，但逐渐不能适应阀门工业发展的需要，目前，阀门制造厂一般采用统一的编号方法；不能采用统一编号方法的，各生产厂可按自己的情况制订出编号方法。

The valve type should generally indicate the valve type, drive mode, connection form, structural characteristics, nominal pressure, sealing surface material, valve body material and other elements. The standardization of the valve type provides convenience for the design, selection and distribution of the valve. With more and more types and types of valves available today, the valve models are becoming more and more complex. Although there is a unified standard for valve model preparation in China, it is gradually unable to meet the needs of the development of the valve industry. At present, valve manufacturers generally adopt a unified numbering method; if the unified numbering method cannot be adopted, each manufacturer can formulate a number according to its own situation, method.

1单元 Unit	类型代号 Type code
2单元 Unit	驱动方式代号 Drive mode code
3单元 Unit	连接形式代号 Connection form code
4单元 Unit	结构形式代号 Structural form code
5单元 Unit	密封面材料或衬里材料代号 Sealing surface material or lining material code
6单元 Unit	压力代号或工作温度下的工作压力代号 Pressure code or working pressure code at working temperature
7单元 Unit	阀体材料代号 Body material code

## 一单元：阀门类型代号 Unit 1: Valve type code

类型 Types of	代号 Code
安全阀 Safety valve	A
蝶阀 Butterfly valve	D
隔膜阀 Diaphragm valve	G
止回阀 Check valve bottom valve	H
截止阀 Shut-off valve	J
节流阀 Throttle valve	L
排污阀 Drain valve	P
球阀 Ball valve	Q
疏水阀 Traps	S
柱塞阀 Plunger valve	U
旋塞阀 Plug valve	X
减压阀 Pressure reducing valve	Y
闸阀 Gate	Z

当阀门还具有其它功能作用或带有其他特异结构时，在阀门类型代号前再加注一个汉语拼音字母，按下表的规定。

When the valve has other functions or other special structures, add a Chinese pinyin letter before the valve type code, as specified in the table below.

第二功能作用名称 Second function name	代号 Code	第二功能作用名称 Second function name	代号 Code
保温型 Insulation type	B	排渣阀 Slag discharge valve	P
低温型 Low temperature type	D <sup>a</sup>	快速型 Fast type	Q
防火型 Fireproof	F	(阀杆密封)波纹管型 (Stem seal) bellows type	W
缓闭型 Slowly closed	H	-	-
低温型允许使用温度低于-29℃以下的阀门 Low temperature type allows the use of valves below -46 °C			

## 二单元：传动方式 Unit 2: transmission mode

传动方式 Transfer method	代号 Code
电磁动 Electromagnetic movement	0
电磁-液动 Electromagnetic-hydraulic	1
电-液动 Electro-hydraulic	2
蜗轮 Worm gear	3
正齿轮 Spur gear	4
伞齿轮 Bevel gear	5
气动 Pneumatic	6
液动 Hydraulic	7
气-液动 Gas-liquid	8
电动 Electric	9
手柄、手轮 Handle, Hand wheel	无代号 No code

安全阀、减压阀、疏水阀、手轮直接连接阀杆操作结构形式的阀门，本代号省略，不表示。

对于气动或液动机操作的阀门：常开式用6K、7K表示；常闭式用6B、7B表示；防爆电动装置的阀门用9B表示。

Safety valves, pressure reducing valves, traps, and handwheels are directly connected to the valve in the form of valve stem operation structure. This code is omitted and is not indicated. Valves operated by pneumatic or hydraulic mechanisms: normally open with 6K, 7K; normally closed with 6B, 7B; valves for explosion-proof electric devices are indicated by 9B.

## 三单元：连接形式 Unit 3: Connection Type

连接方式 Connection method	代号 Code
内螺纹 Internal thread	1
外螺纹 External thread	2
两不同连接 Two different connections	3
法兰 Flange	4
焊接 Welding	6
对夹 Pair of clips	7
卡箍 Clamp	8
卡套 Card cover	9

## 四单元：结构形式 Unit 4: structural form

阀门结构形式用阿拉伯数字表示，按下表规定。

The valve structure is expressed in Arabic numerals and is specified in the following table.

结构形式 Structure type	代号 Code	结构形式 Structure type	代号 Code
直通流道 Straight flow path	1	直通流道 Straight flow path	7
Y形三通流道 Y-shaped three-way flow channel	2	四通流道 Four-way flow channel	6
L形三通流道 L-shaped three-way flow channel	4	T形三通流道 T-shaped three-way flow channel	8
T形三通流道 T-shaped three-way flow channel	5	L形三通流道 L-shaped three-way flow channel	9
-	-	半球直通 Hemisphere straight through	0

## 五单元：密封副材料 Unit 5: sealing material

材料 Material	代号 Code
锡基轴承合金巴氏合金 Tin-based bearing alloy babbitt	B
搪 Keep out	C
渗氮钢 Nitriding steel	D
18-8系不锈钢 18-8 series stainless steel	E
氟塑料 Fluoroplastic	F
玻璃 Glass	G
Cr13不锈钢 Cr13 stainless steel	H
衬胶 Lining	J
蒙乃尔合金 Monel	M
尼龙塑料 Nylon plastic	N
渗硼钢 Boronizing steel	P
衬铅 Lead-lined	Q
Mo2Ti不锈钢 Mo2Ti stainless steel	R
塑料 Plastic	S
铜合金 Copper alloy	T
橡胶 Rubber	X
硬质合金 Cemented carbide	Y
阀体直接加工 Direct processing of the valve body	W

当密封副的密封面材料不同时，以硬度低的材料代号表示。  
When the sealing surface material of the sealing pair is different, it is represented by a material with a low hardness.

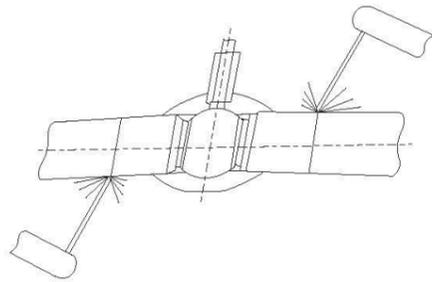
## 六单元 Unit 6

公称压力数值用阿拉伯数字直接表示，它是MPa的10倍。  
The nominal pressure value is directly expressed in Arabic numerals, which is 10 times that of MPa.

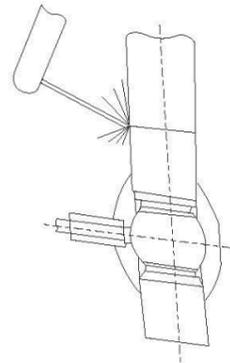
## 七单元 Unit 7

阀门材质 Valve material	代号 Code
钛及钛合金 Titanium and titanium alloy	A
碳钢 Carbon steel	C
Cr13系不锈钢 Cr13 stainless steel	H
铬钼钢 Chrome-molybdenum steel	I
可锻铸铁 Malleable cast iron	K
铝合金 Aluminum alloy	L
18-8系不锈钢 18-8 series stainless steel	P
球墨铸铁 Ductile iron	Q
Mo2Ti系不锈钢 Mo2Ti stainless steel	R
塑料 Plastic	S
铜及铜合金 Copper and copper alloy	T
铬钼钒钢 Chrome molybdenum vanadium steel	V
灰铸铁 grey cast iron	Z

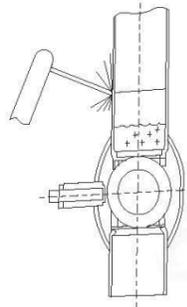
灰铸铁底压阀和钢制中压省略此项  
Gray cast iron bottom pressure valve and steel medium pressure omits this item



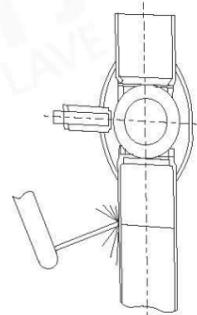
水平管道焊接时，阀应是完全开放的。  
When the horizontal pipe is welded, the valve should be completely open.



当焊接成垂直管道的阀门，阀门应打开，当上缝焊接  
When welding a valve into a vertical pipe, the valve should be opened when the upper seam is welded



如果阀被关闭时被焊接上的接缝，它必须被装满水。  
If the seam is welded when the valve is closed, it must be filled with water.



气体保护焊时，应关闭阀门，焊接底部接缝。  
When gas shielded welding, the valve should be closed and the bottom seam welded.

1. 拆去两端的保护盖，检查阀孔是否干净。如有异物清理干净，避免沟槽和球体之间的异物损坏阀座密封面。
  2. 试着打开和关闭球阀几次，确认球阀能否正常工作。
  3. 在将球阀安装至管线之前，应将管子焊接表面擦扫干净。安装球阀时，不用特别注意球阀的安装方向(任一端都可安装在上游端)。
  4. 将要焊接的球阀打开，避免在焊接过程中焊渣进入阀门。
  5. 焊接完成后，等阀门完全冷却后再进行阀门开关操作。
  6. 当安装蜗轮杆执行机构时(阀门尺寸DN200及以上或特殊定制)，先根据阀门开关位置，参照箭头指示方向(shut关, open开)调整执行机构开度位置，使执行机构箭头指示开关方向和阀门开关方向保持一致；将执行机构阀体的标准法兰正确对接，并适当调整限位螺栓(打开底部黑色保护帽，松动固定螺母，用适合的六角扳手调整调整限位螺栓，完成后上紧固螺母，安好黑色保护帽)的位置使阀门可以完全关闭和打开，可以参考箭头指示方向(箭头必须完全水平或垂直)。
1. Remove the protective cover at both ends and check that the valve hole is clean. If any foreign matter is cleaned, avoid foreign matter between the groove and the ball to damage the seat sealing surface.
  2. Try to open and close the ball valve several times to confirm that the ball valve can work normally.
  3. Wipe the welded surface of the pipe before installing the ball valve to the pipeline. When installing the ball valve, do not pay special attention to the installation direction of the ball valve (either end can be installed at the upstream end).
  4. Open the ball valve to be welded to avoid welding slag entering the valve during the welding process.
  5. After the welding is completed, wait for the valve to be completely cooled before performing the valve switching operation.
  6. When installing the worm gear rod actuator (valve size DN200 and above or special custom), first adjust the actuator opening position according to the direction of the valve switch, refer to the arrow direction (shut off, open open), so that the actuator arrow indicator switch direction and valve switch direction are consistent; correctly align the standard flange of the actuator body and adjust the limit bolts properly (open the bottom black protective cap, loosen the fixing nut, adjust the adjustment bolt with a suitable hex wrench, after completion) The position of the upper fastening nut and the black protective cap) allows the valve to be fully closed and opened, as indicated by the arrow (the arrow must be completely horizontal or vertical).

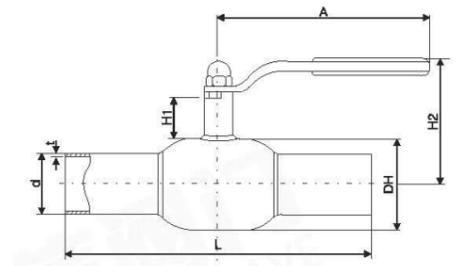


使用材料 Material used	适用范围 Scope of application	适用介质 Applicable medium
图表、产品说明 Chart, product description	供暖系统、区域供热、工业用途、城市燃气 Heating System, District Heating, Industrial Use, City Gas	水、空气、油和其它不与碳钢发生化学反应的流体 Water, Air, Oil And Others Does Not Chemically React With Carbon Steel Reactive Fluid

### 手柄传动式 Handle drive

单位Unit:mm

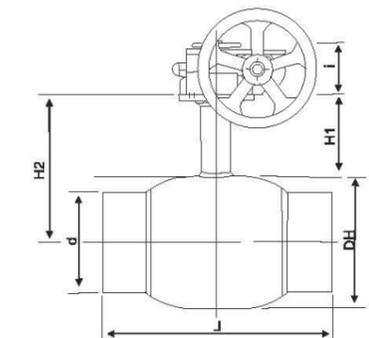
DN	公称直径 Nominal diameter	DH	d A/B	t	L	H1	H2	I	重量 Weight (kg)
15	10	35	21.3/18	3	210	42	86	145	0.8
20	15	42	26.9/25	3	230	42	88	145	1.0
25	20	48	33.7/32	3	230	42	90	145	1.3
32	25	57	42.4/38	3	260	42	95	145	1.9
40	32	76	48.3/45	4	260	45	100	180	2.5
50	40	89	60.3/57	4	300	50	110	250	4.0
65	50	108	76.1/76	4	300	50	120	250	5.0
80	65	133	88.9/89	5	300	63	152	280	7.0
100	80	159	114.6/108	5	325	63	165	280	10.0
125	100	180	139.7/133	5	325	63	165	420	15.0
150	125	219	168.3/159	6	350	63	185	570	22.0
200	150	273	219/219	7	400	70	217	770	32.0



### 水平齿轮传动式 Horizontal gear drive

单位Unit:mm

DN	公称直径 Nominal diameter	DH	d A/B	t	L	H1	H2	I	重量 Weight (kg)
125	100	180	139.5/133	5	325	50	140	40	22
150	125	219	168.3/159	6	350	65	175	50	32
200	150	273	219.1/219	7	400	65	202	60	48
250	200	351	273/273	8	520	70	246	84	90
300	250	425	323.9/325	10	630	70	283	105	130
350	300	508	355.6/377	12	680	75	330	110	200
400	350	590	406.4/426	14	760	80	375	120	360
450	350	590	457/480	16	760	80	375	120	400
500	400	670	508/530	18	910	95	430	150	500
600	500	805	610/630	20	1060	95	490	170	960
700	600	950	711/720	22	1340	95	605	180	1200



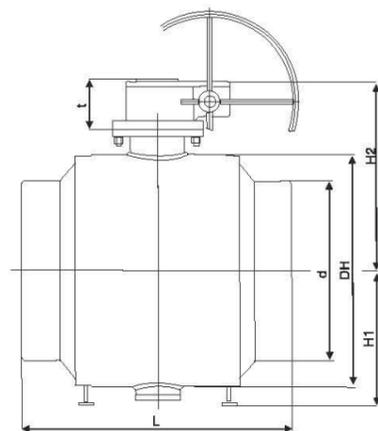
使用材料 Material used	适用范围 Scope of application	适用介质 Applicable medium
图表、产品说明 Chart, product description	供暖系统、区域供热、工业用途、城市燃气 Heating System, District Heating, Industrial Use, City Gas	水、空气、油和其它不与碳钢发生化学反应的流体 Water, Air, Oil And Others Does Not Chemically React With Carbon Steel Reactive Fluid



**主要外形尺寸 Main dimensions**

单位Unit:mm

DN	公称直径 Nominal diameter	DH	d A/B	t	L	H1	H2	重量 Weight (kg)
700	590	985	711/720	22	1340	650	582	1600
800	685	1140	813/820	24	1520	705	670	2450
900	785	1280	914/920	28	1720	770	755	3300
1000	875	1440	1016/1020	30	1900	855	840	4500
1200	976	1590	1219/1220	36	2100	995	925	6400
1400	1160	1860	1422/1420	42	2200	1095	1060	9500



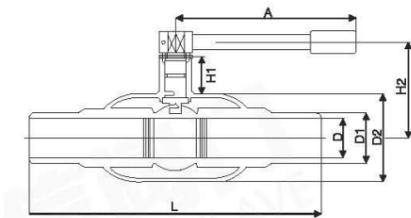
使用材料 Material used	适用范围 Scope of application	适用介质 Applicable medium
图表、产品说明 Chart, product description	供暖系统、区域供热、工业用途、城市燃气 Heating System, District Heating, Industrial Use, City Gas	水、空气、油和其它不与碳钢发生化学反应的流体 Water, Air, Oil And Others Does Not Chemically React With Carbon Steel Reactive Fluid



**手柄传动式 Handle drive**

单位Unit:mm

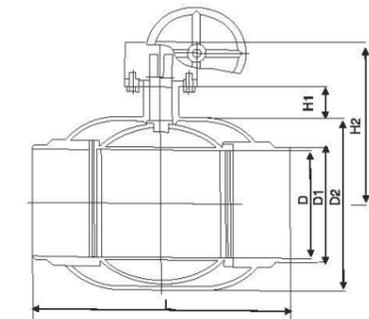
DN	公称直径 Nominal diameter	L	D	d A/B	D2	A	H1	H2	重量 Weight (kg)
15	15	230	15	21.3/18	42	145	42	88	1.4
20	20	230	20	26.9/25	48	145	42	90	1.6
25	25	260	25	33.7/32	57	145	42	93	2.3
32	32	260	32	42.4/38	70	180	45	100	2.8
40	40	300	40	48.3/45	89	250	50	110	4.6
50	50	300	50	60.3/57	108	250	50	120	7
65	65	300	65	76.1/76	133	280	63	152	9.2
80	80	325	80	88.9/89	159	280	63	165	13.2
100	100	325	100	114.6/108	180	420	63	170	16
125	125	350	125	139.7/133	219	570	63	205	23.5
150	150	400	150	168.3/159	273	570	70	235	35



**水平齿轮传动式 Horizontal gear drive**

单位Unit:mm

DN	公称直径 Nominal diameter	L	D	D1 A/B	D2	H1	H2	重量 Weight (kg)
50	50	300	50	60.3/57	108	40	94	10
65	65	300	65	76.1/76	133	50	117	13
80	80	325	80	88.9/89	159	50	150	20
100	100	325	100	114.3/108	180	50	140	25
125	125	350	125	139.7/133	214	65	115	35
150	150	400	150	168.3/159	273	65	202	50
200	200	520	200	219.1/219	351	70	246	100
250	250	630	250	273.0/273	426	70	283	145
300	300	680	300	323.9/325	508	75	330	220
350	350	760	350	355.6/377	590	80	375	390
400	400	910	400	406.4/426	670	95	430	600
500	500	1060	500	508/530	805	95	498	1000

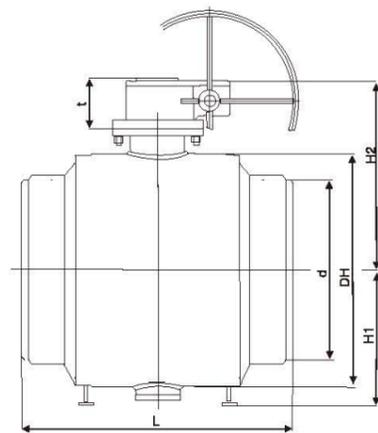


使用材料 Material used	适用范围 Scope of application	适用介质 Applicable medium
图表、产品说明 Chart, product description	供暖系统、区域供热、工业用途、城市燃气 Heating System, District Heating, Industrial Use, City Gas	水、空气、油和其它不与碳钢发生化学反应的流体 Water, Air, Oil And Others Does Not Chemically React With Carbon Steel Reactive Fluid



主要外形尺寸 Main dimensions 单位Unit:mm

DN	公称直径 Nominal diameter	DH	d A/B	t	L	H1	H2	重量 Weight (kg)
500	500	805	508/530	22	1060	527	830	1030
600	590	985	610/630	22	1340	600	940	1750
700	685	1140	711/720	24	1520	682	1050	2500
800	785	1280	813/820	28	1720	765	1140	3500
900	875	1440	914/920	30	1900	836	1210	5000
1000	976	1590	1016/1020	32	2000	932	1320	5700
1200	1160	1860	1219/1220	42	2200	1095	1590	11000
1400	1360	2190	1422/1420	48	2300	1250	1710	18000

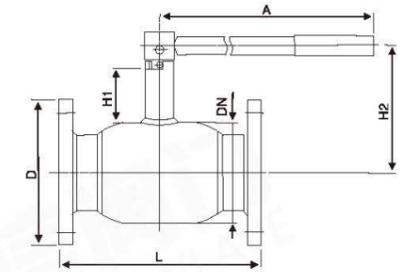


使用材料 Material used	适用范围 Scope of application	适用介质 Applicable medium
图表、产品说明 Chart, product description	供暖系统、区域供热、工业用途、城市燃气 Heating System, District Heating, Industrial Use, City Gas	水、空气、油和其它不与碳钢发生化学反应的流体 Water, Air, Oil And Others Does Not Chemically React With Carbon Steel Reactive Fluid



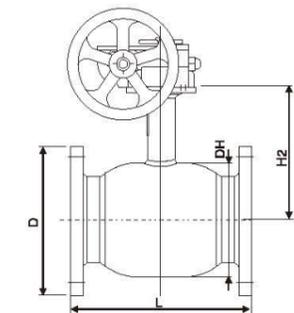
主要外形尺寸 Main dimensions 单位Unit:mm

DN	公称直径 Nominal diameter	DH	D	L	H1	H2	A	重量 Weight (kg)
15	10	34	95	130	45	86	145	2.0
20	15	42	105	150	47	88	145	3.4
25	20	48	115	160	47	90	145	3.4
32	25	57	135	260	48	95	145	4.3
40	32	76	145	300	41	100	180	5.5
50	40	89	160	230	40	105	250	8
65	50	108	180	270	40	115	275	10
80	65	133	195	280	50	135	275	13
100	80	159	215	300	55	155	365	17



主要外形尺寸 Main dimensions 单位Unit:mm

DN	公称直径 Nominal diameter	DH	D	L	H1	H2	ds	l	重量 Weight (kg)
125	100	180	270	325	75	172	24	40	32
150	125	219	300	350	80	190	30	50	44
200	150	273	360	400	80	217	30	60	63
250	200	351	425	520	80	256	50	84	116
300	250	426	480	630	90	303	60	105	160
350	300	508	550	680	90	345	60	110	240
400	350	610	610	760	105	410	70	120	550
500	400	670	715	910	120	460	90	150	860



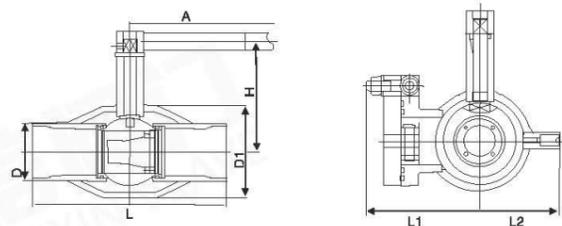


# STANDARD DIAMETER WELDED BALL VALVE 标准径焊接式过滤球阀

## 手柄传动PN25/Handle drive PN25

单位Unit:mm

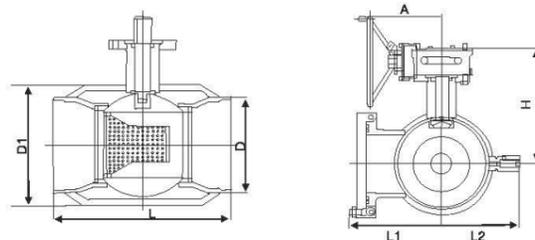
DN	A	L	L1	L2	D		D1	H
					GOST	EN		
DN65	300	300	220	140	76.3	76.3	139.8	176
DN80	400	300	222	149	89.0	88.3	165.2	207
DN100	400	325	222	149	107.6	114.3	165.2	207
DN125	400	325	230	156	132.6	141.3	180.0	224
DN150	450	350	266	188	158.6	168.3	291.1	255



## 齿轮传动PN25/Gear drive PN25

单位Unit:mm

DN	A	L	L1	L2	D		D1	H
					GOST	EN		
200	168	400	290	213	219.0	219.1	267.4	522.0
250	185	520	395	257	273.0	273.1	355.6	437.0
300	185	630	447	317	323.9	323.9	457.2	369.0
350	185	680	463	342	377.0	355.6	508	393.0



# ALL WELDED FLOW CONTROL BALANCE VALVE 全焊接流量控制平衡阀



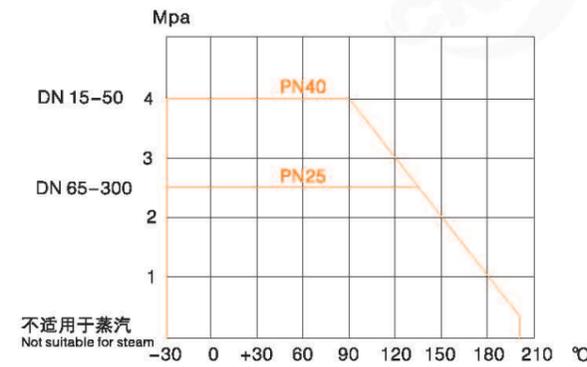
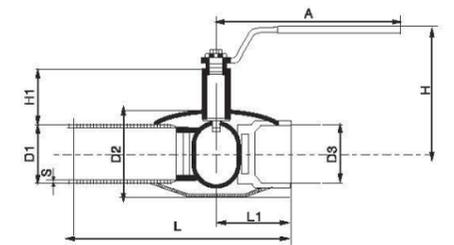
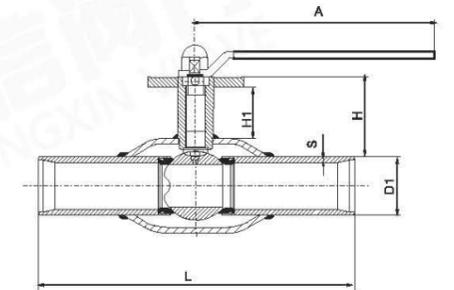
全焊接流量调节平衡阀是专门为调节热力管网整个系统及各分支管路的流量平衡而设计的，球体采用独特的V字状的球形口，使其整个范围内均具有良好的调节性能，完全实现了等百分比调节，是解决暖通系统中的水力平衡问题的新产品。

The all-weld flow regulating balance valve is specially designed to adjust the flow balance of the whole system and the branches of the thermal pipe network. The ball adopts a unique V-shaped spherical port, which has good adjustment performance in the whole range. Fully achieved equal percentage adjustment is a new product to solve the problem of hydraulic balance in HVAC systems.

## 主要外形尺寸 Main dimensions

单位Unit:mm

DN	NPS	公称直径 Nominal diameter	D1		S	H	H1	A	L	重量 Weight (kg)
			国标GB	欧标EN						
15	3/8	10	18	21.3	2.0	100	18	140	230	0.9
20	3/4	15	25	26.9	2.3	100	18	140	230	0.9
25	1	20	32	33.7	2.6	105	37	150	230	1.2
32	1 1/4	25	38	42.4	2.6	105	36	150	260	1.5
40	1 1/2	32	45	48.3	2.6	125	56	190	260	2.4
50	2	40	57	60.3	2.9	130	56	190	300	3.1
65	2 1/2	50	76	76.1	2.9	180	72	280	300	4.7
80	3	65	89	88.9	3.2	190	78	280	300	5.9
100	4	80	108	114.3	3.6	220	95	280	325	9.0
125	5	100	133	139.7	4.0	245	98	420	325	13.5
150	6	125	159	168.3	4.5	265	104	600	350	18.8
200	8	150	219	219.1	4.5	-	74	-	400	45.0
250	10	200	273	273.0	5.0	-	90	-	520	89.0
300	12	250	325	323.9	5.6	-	115	-	630	140.0

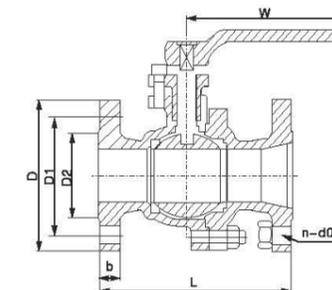


## 主要外形尺寸 Main dimensions

单位Unit:mm

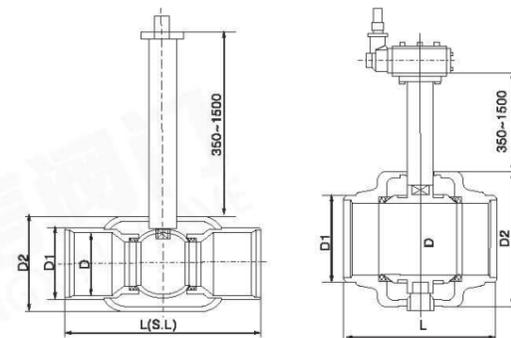
DN	NPS	D	D1 国标 GB	D1 德标 DIN	D2	D3	S	H	H1	A	L	L1	KV	重量 Weight (kg)
10	3/8	10	18	17.2	33.7	R3/8	2.0	100	23	120	153	37	8	0.5
15	3/8	10	25	21.3	33.7	R1/2	2.0	100	23	120	153	37	8	0.5
20	3/4	15	32	26.9	42.4	R3/4	2.3	102	24	120	153	38	4	0.6
25	1	20	38	33.7	48.3	R1	2.6	105	40	150	160	45	25	0.9
32	1 1/4	25	45	42.4	60.3	R1 1/4	2.6	110	39	150	183	53	41	1.3
40	1 1/2	32	57	28.3	76.1	R1 1/2	2.6	120	59	190	190	60	65	1.8
50	2	40		60.3	88.9	R2	2.9	130	59	190	223	72	103	2.5

适用范围 Scope of application	适用介质 Applicable medium
天然气管线、城市燃气 Natural gas pipeline, city gas	天然气、煤气、燃气和其它不与碳钢发生化学反应的流体 Natural gas, gas, gas and other fluids that do not chemically react with carbon steel



**主要外形尺寸 Main dimensions** 单位Unit:mm

DN	NPS	D	D1		D2	L	
			国标GB	欧标EN		S	L
50	2	40	57	60.3	89	300	1000
65	2 1/2	50	76	76.1	114	300	1000
80	3	65	89	88.9	140	300	1000
100	4	80	108	114.3	165	325	1000
150	6	125	159	168.3	219	350	1000
200	8	150	219	219.1	267	400	1000
250	10	200	273	273.1	355	560	1000
300	12	250	325	323.9	457	635	1100
400	16	337	426	406.4	558	760	1360
500	20	387	530	508	660	910	1510
600	24	489	630	609.6	812	1065	1660
700	28	591	730	711.2	1016	1346	1940
800	32	686	830	812.8	1095	1524	2120
900	36	781	930	914.4	1237	1727	2320



**产品概述 Product overview**

该阀门采用成型聚四氟乙烯填料，适用于大多数中高压液化气、天然气、石油、化工输送场合，手柄操作力矩平衡，O形密封圈用来防止外部杂质进入阀门内部。并保持阀门长期密封性能，大于DN150的球阀采用蜗轮驱动。

The valve adopts formed PTFE packing, which is suitable for most high and medium pressure liquefied gas, natural gas, petroleum and chemical transportation occasions. The operating torque of the handle is balanced. The O-ring is used to prevent external impurities from entering the valve. The long-term sealing performance of the valve shall be maintained. Ball valves larger than DN150 shall be driven by worm gear.

**主要性能参数 Main performance parameters**

公称压力 Nominal pressure	壳体试验 Shell test	密封试验 Sealing test	适用介质 Applicable media	适宜温度 Suitable temperature
1.6	2.4	1.76	液化气、天然气、石油、化工等 Liquefied gas, Natural gas, oil, Chemical industry, etc	-40~80℃
2.5	3.75	2.75		
4.0	6.0	4.4		

**设计规范 Design code**

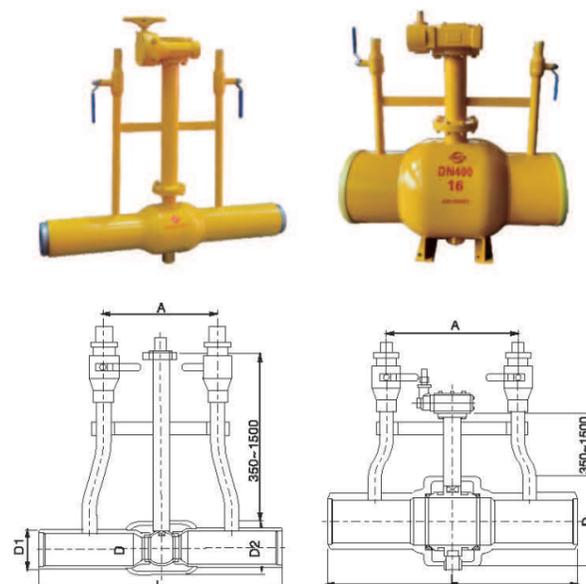
设计、制造 Design and manufacturing	GB/T12237-2007
法兰连接 Flange connection	JB/T79-2015、GB/T9113-2010
结构长度 Structure length	GB/T 12221-2005
公称直径 Nominal diameter	DN15~250mm
阀体材质 Body material	WCB、CF8、CF3、CF8M等etc.

**主要零部件材料 Material of main parts**

阀体、阀盖 Valve body and bonnet	阀杆、球体 Valve rod, ball	密封面 Sealing surface	填料 Filler
WCB	不锈钢 Stainless steel	不锈钢和聚四氟乙烯 Stainless steel and teflon	聚四氟乙烯 Teflon

**主要外形尺寸 Main dimensions** 单位Unit:mm

DN	NPS	A	D	D1		D2	L
				国标GB	欧标EN		
50	2	300	40	57	60.3	89	1000
65	2 1/2	300	50	76	76.1	114	1000
80	3	300	65	89	88.9	140	1000
100	4	340	80	108	114.3	165	1000
125	5	400	100	133	141.3	216	1000
150	6	400	125	159	168.3	219	1000
200	8	400	150	219	219.1	267	1000
250	10	400	200	273	273.1	355	1000
300	12	500	250	325	323.9	457	1100
350	14	500	300	377	355.6	508	1250
400	16	500	337	426	406.4	558	1360
450	18	500	337	477	457.2	558	1440
500	20	600	387	530	508	660	1510
550	-	600	438	-	-	718	1690
600	24	650	489	630	609.6	812	1660
650	-	650	540	-	660.6	898	1840
700	28	700	591	730	711.2	1016	1940
750	-	700	635	-	738	1020	2000
800	32	800	686	830	812.8	1095	2120
850	-	800	737	-	863.6	1172	2220
900	36	800	781	930	914.4	1245	2400



**主要外形尺寸 Main dimensions**

公称直径 DN(mm)	主要外形尺寸和连接尺寸(mm)							
	L	D	D1	D2	b	z-Φd	H	W
Q41F-25 Q41F-25P								
15	130	95	65	45	16	4-14	103	100
20	140	105	75	55	16	4-14	112	160
25	150	115	85	65	16	4-14	123	160
32	165	135	100	78	18	4-18	150	250
40	180	145	110	85	18	4-18	156	250
50	200	160	125	100	20	4-18	172	350
65	220	180	145	120	22	8-18	197	350
80	250	195	160	135	22	8-18	222	450
100	280	230	190	160	24	8-23	253	450
125	320	270	220	188	28	8-25	275	600
150	360	300	250	218	30	8-25	286	800
200	400	360	320	278	34	12-25	340	1200
250	457	425	370	332	36	12-30	470	1400

#### 产品概述 Overview Products

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

The fixed ball valve is a new generation of high performance ball valves. It is suitable for long distance pipeline and general industrial pipeline. Its strength, safety, and bad environment resistance are considered in the design. It is suitable for various corrosive and non corrosive medium. Compared with the floating ball valve, the force generated by the fluid pressure before the valve is all transferred to the bearing, and the ball will not move to the seat, so the seat will not bear the pressure, so the torque of the valve is small, the valve seat is small, the sealing performance is stable and the service life is long, suitable for high pressure and large size. Caliber occasions. The fixed ball valve has two block and three block type body structure. The middle flange is bolted with the bolt. The seal is inlaid with the reinforced PTFE into the stainless steel ring. The rear part of the steel ring is equipped with a spring to keep the seat close to the ball and keep the seal.

#### 性能规范 Performance specification

公称直径DN(mm) Nominal diameter	驱动方式 Driving mode	适用温度 Applicable temperature	适用介质 Applicable medium
DN15-800mm 1/2"-32"	手动、气动、电动、液动等 Manual, pneumatic, electric, hydraulic, etc	-196°C~350°C	水、气、油品、天然气和酸碱腐蚀性介质 Water, gas, oil, natural gas and acid and caustic media.

#### 执行标准 Executive standard

设计依据 Design basis	GB系列	API系列	
设计标准 Design standards	GB/T 12237	API6D	ANSI B16.34
法兰连接结构长度 Flange connection structure length	GB/T 12221	API6D	ANSI B16.10
结构长度(焊接) Structural length (welding)	GBT 15188.1	API6D	ANSI B16.10
连接法兰 Connecting flange	GB/T9113、JB/T79 HG20592	ANSI B16.5、B16.47	
对焊端 Butt welding end	GB/T12224	ANSI B16.25	
试验和检验 Test and test	GB/T9092	API6D	API598

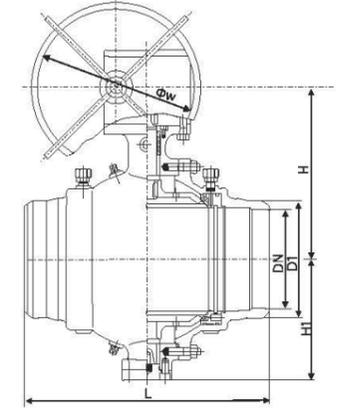
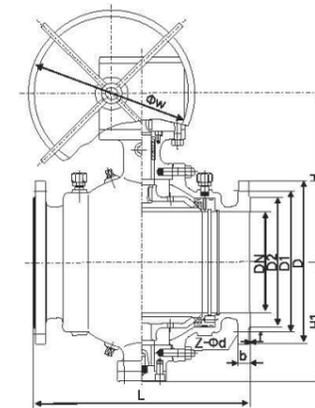
#### 执行标准

#### Executive standard

压力等级 Pressure grade		试验压力 Test pressure (MPa)	
公称压力(MPa) Nominal pressure	磅级(class)(Lb)	壳体试验 Shell test	密封试验 Seal test
1.0	-	1.5	1.1
1.6	-	2.5	1.76
2.5	-	3.8	2.75
4.0	-	6.0	4.4
6.4	-	9.6	7.04
-	150	3.0	2.2
-	300	7.6	5.6
-	600	16.0	11.0
-	10k	2.4	1.5
-	20k	5.8	4.0

#### 主要零部件材质 Material of main parts

零件名称 Part name	材料 Material	
	GB	ASTM
端盖 End cap	WCB	A216-WCB
螺母 Nut	35	A193-B7
底盖 Bottom cover	WCB	A216-WCB
垫片 Shim	PTFE, 柔性石墨+不锈钢 Flexible graphite+SS	PTFE, B12.10-304/F.G
螺钉 Screw	35CrMo	A194-2H
下阀杆 Lower stem	2Cr13	A276-410
O型圈 O type ring	NBR	NBR
垫片 Shim	PTFE, 柔性石墨+不锈钢 Flexible graphite+SS	PTFE, B12.10-304/F.G
阀体 Valve body	WCB	A216-WCB
排污塞 Blowdown plug	25	A105
弹簧 Spring	60Si2Mn	AISI 9260
阀座 Valve seat	25	A105
密封圈 Seal ring	PTFE	PTFE
O型圈 O type ring	NBR	NBR
注脂阀 Fat injection valve	组件 Assembly	组件 Assembly
球体 Sphere	WCB+HAr	WCB+HCr
阀杆 The stem	2Cr13	A276-410
键 Key	45	AISI C 1045
垫片 Shim	PTFE+不锈钢SS	PTFE+304
O型圈 O type ring	NBR	NBR
填料箱 Packing box	25	A105
螺钉 Screw	35CrMo	A194-2H
填料垫 Stuffing pad	1Cr13	A276-410
填料 Filler	碳纤维, 柔性石墨, PTFE Carbon fiber, flexible graphite	
填料压盖 Packing gland	WCB	A216-WCB
支架 Bracket	Q235A	碳钢 Carbon steel
连接套 Connection sleeve	45	AISI C 1045



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

单位 Unit mm

DN	L	D	D1	D2	b	f	Z-Od	H		
								手动 Manual	347型	647型
PN1.6MPa										
15	140	95	65	45	14	2	4-14	130	-	-
20	152	105	75	55	14		4-14	170	-	-
25	165	115	85	65	14	3	4-14	170	-	-
32	178	135	100	78	16		4-18	200	-	-
40	190	145	110	85	16	4	4-18	25	-	-
50	220	160	125	100	16		4-18	25	-	-
65	241	180	145	120	18	5	4-18	350	-	-
80	283	195	180	135	20		8-18	350	-	-
100	305	215	180	155	20	6	8-18	420	-	-
125	381	245	210	185	22		8-18	700	-	542
150	394	280	240	210	24	7	8-23	100	305	672
200	457	335	295	265	28		12-23	1300	398	736
250	533	405	355	320	30	8	12-25	1800	495	890
300	610	460	410	375	30		12-25	-	580	910
350	686	520	470	435	34	9	16-25	-	625	1020
400	762	580	525	485	36		16-30	-	720	1080
450	864	640	585	545	40	10	20-30	-	770	1120
500	914	705	650	608	44		20-34	-	840	1150
600	1067	840	770	718	48	11	20-41	-	920	1230
700	1245	910	840	788	50		24-41	-	990	1310
PN2.5MPa										
15	140	95	65	45	16	2	4-14	130	-	-
20	152	105	75	55	16		4-14	170	-	-
25	165	115	85	65	16	3	4-14	170	-	-
32	178	135	100	78	18		4-18	200	-	-
40	190	145	110	85	18	4	4-18	250	-	-
50	220	160	125	100	20		4-18	250	-	-
65	241	180	145	120	22	5	8-18	350	-	-
80	283	195	160	135	22		8-18	350	-	-
100	305	230	190	160	24	6	8-23	420	-	418
125	381	270	220	188	28		8-25	720	-	542
150	403	300	250	218	30	7	8-25	1000	305	572
200	502	360	310	278	34		12-25	1300	398	736
250	568	425	370	332	36	8	12-30	1800	495	890
300	648	485	430	390	40		16-30	-	580	910
350	762	550	490	448	44	9	16-34	-	625	1020
400	838	610	550	505	48		16-34	-	720	1080
450	914	660	600	555	50	10	20-34	-	770	1120
500	991	730	660	610	52		20-41	-	840	1150
600	1143	840	770	718	56	11	20-41	-	920	1230
700	1346	955	875	815	60		24-48	-	990	1310