



上海亿凡阀门制造有限公司
SHANGHAI YIFAN VALVE CO.,LTD.

地址：上海市嘉定区北陈路 382 号昶盛企业基地 8510
电话：021-36386357 021-63577909
传真：021-63577910
官网：www.yfvalve.net

ADD: Room 8510, Qisheng Enterprise Base, No. 382 Beichen Road, Jiading District, Shanghai
Tel:+86-021-36376357 021-36377909
Tel:+86-021-36377910
Website:www.yfvalve.net



专业硬密封球阀
石油化工 多晶硅 煤矿



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ABOUT US

关于我们

YIFAN 阀门自成立之日起,我们就对标国内外市场上同类产品的高端品牌。面对客户的各种要求和极其苛刻的工况环境,我们不断研究和学习,同时借鉴同行先进的经验,经过多年的努力已经发展成为国内领先的高压球阀制造商之一,产品被多家用户接受和认可。

YIFAN 主要产品为高压球阀,压力范围从PN6至PN420压力,美标150磅至2500磅,API 6A系列1000PSI至6000SI。公司的产品被广泛应用的石油天然气、长输管线、石油炼化、化学工程、火力发电、煤化工、LNG、船舶、矿山,,多晶硅、液压管道和水利等行业,畅销国内外市场。生产车间占地面积3000平方米,主要产品包括低温球阀,高温球阀,硬密封球阀,小口径球阀,管线球阀,特种球阀,主要材质有碳钢,锻钢,不锈钢,铬钼钢,低温钢,双相钢2507,合金钢625,合金钢825,蒙乃尔,镍铝青铜C95400等。

YIFAN 阀门坚持提供更高质量的产品,追求做到零缺陷的阀门。目前已经通过ISO9001质量管理体系认证, EAC认证等证书。YIFAN 阀门始终把客户的需求放在第一位,选用安全性、可靠性和环保性能高的原材料,通过严格的生产流程控制以保证阀门的操作性能。降低可能的运行故障率,并通过严格的出厂检验和检测程序保证产品的使用寿命,降低用户的维护成本。

Since the date of establishment, we have been benchmarking with the high-end brands of similar products in the domestic and international markets. In the face of various customer requirements and extremely demanding working conditions, we continue to study and learn, while drawing on the advanced experience of our peers, after years of efforts have developed into one of the leading manufacturers of high-pressure ball valves in China, the products are accepted and recognized by many users.

Our products are widely used in oil and gas, long-distance pipeline, petroleum refining, chemical engineering, thermal power generation, coal chemical industry, LNG, shipbuilding, mining, polysilicon, hydraulic pipeline and water conservancy etc. The products are well sold in domestic and international markets. The production workshop covers an area of 3000 square meters, the main products include low temperature ball valves, high temperature ball valves, hard seal ball valves, small diameter ball valves, pipeline ball valves, special ball valves, the main materials are carbon steel, forged steel, stainless steel, chrome molybdenum steel, low temperature steel, duplex steel 2507, alloy steel 625, alloy steel 825, Monel, nickel aluminum bronze C95400, etc..

YIFAN Valve insists on providing higher quality products and pursues to achieve zero defect valves. At present, we have passed ISO9001 quality management system certification, EAC certification and other certificates. YIFAN Valve always puts the customer's needs first and uses raw materials with high safety, reliability and environmental performance, and guarantees the operating performance of the valves through strict control of the production process. Reduce the possible operating failure rate, and ensure the service life of the products through strict factory inspection and testing procedures to reduce the maintenance cost for users.

PRODUCTIVE CAPACITY

生产能力

先进的高、精、尖设备保障了高品质的产品



YIFAN 拥有高精度的数控机床和加工中心，先进的设备及检测仪器，精良的工艺以及严格完善的质量管理体系，并聚集具有专业技术精英和领先水平的科技队伍，充分利用新技术，新工艺，新材料保证产品的稳定性和可靠性。

YIFAN has high-precision CNC machine tools and machining centers, advanced equipment and testing instruments, sophisticated technology and strict and perfect quality management system, and gathered with professional technical elite and leading level of scientific and technological team, make full use of new technology, new technology, new materials to ensure the stability and reliability of products.

ADVANCED HIGH, FINE, SHARP EQUIPMENT TO ENSURE HIGH-QUALITY PRODUCTS



YIFAN has high precision CNC machine tools and machining centers, advanced equipment and testing instruments, sophisticated technology and strict and perfect quality management system, and gathered with professional technical elites and leading level of science and technology team, make full use of new technology, new process, new materials to ensure the stability and reliability of products.

SALES SERVICE

销售服务

我们凭借专业的行业经验、服务与品质
为您提供放心的解决方案



销售团队协作 缔造完美品质

SALES TEAM COOPERATION TO CREATE PERFECT QUALITY

WE RELY ON PROFESSIONAL EXPERIENCE, SERVICE AND QUALITY
TO PROVIDE YOU WITH A REASSURING SOLUTION



架构精密、分工精细，合作精诚，为 YIFAN 的每一次飞跃奠定了坚实的基础。科学而有效的管理。果断而及时的决策，全面而及时的信息反馈，使 YIFAN 永远赢得市场先机。运筹帷幄之中，决胜于千里之外，成功跨越一道道门槛。精华的沉淀，沉稳的面对，让吉帆乘风破浪，扬帆远航。“永不自满，精益求精，追求卓越”已成为 YIFAN 全体职员共同的心声。

Precise framework, meticulous labor division and sincere cooperation, Have laid a solid foundation for YIFAN's every leap. Scientific and effective management, firm and timely decisionmaking, all-round and fresh information feedback, have made YIFAN win market opportunity in advance. Work out splendid plans to win victories in battles a thousand miles away, and smoothly leap over each doorway with sediment of essence and coolminded attitude to work. YIFAN will plow the waves. "Ever to be self-contented, keeping improving" seeking for brilliance has become a common wish of YIFAN staff.

QUALITY CONTROL

质量控制



完美的品质 取决于检测手段的严谨和一丝不苟



严谨、务实、永不松懈的工作作风，植根于YIFAN的每一道生产工序之中。检验员高度负责的心态溶于每一个部件中，加上先进的检测设备和严格的科学化管理，使每一个生产的成品经得起顾客的精心挑选，使其在使用中发挥好良好的性能，完成每台产品的神圣使命，做到万无一失，YIFAN人庄严承诺让生产的每一个产品都得100分。

THE PERFECT QUALITY DEPENDS ON THE RIGOROUS
AND METICULOUS TESTING METHODS



The rigorous, pragmatic and never-lax work style is rooted in every production process of YIFAN. The highly responsible mentality of the inspector is dissolved in every part, coupled with advanced testing equipment and strict scientific management, so that each production of the finished product can stand the careful selection of customers, so that it can play a good performance in use, complete the sacred mission of each product, so that it is foolproof, Karo solemn commitment to make every product produced get 100 points.



Flange ball valve

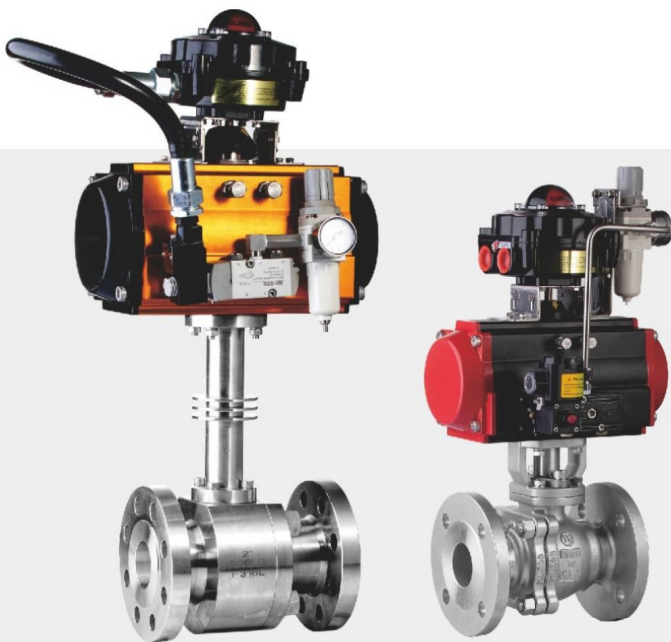
• 法兰球阀

球阀特点

- 流体阻力小，其阻力系数与同长度的管段相等。
- 结构简单、体积小、重量轻。
- 紧密可靠，球阀的密封面材料广泛使用塑料，密封性好，在真空系统中也已广泛使用。
- 操作方便，开闭迅速，从全开到全关只要旋转90°，便于远距离的控制。
- 维修方便，球阀结构简单，密封圈一般都是活动的，拆卸更换都比较方便。
- 在全开或全闭时，球体和阀座的密封面与介质隔离，介质通过时，不会引起阀门密封面的侵蚀。隔离，介质通过不会引起阀门密封面的侵蚀。

性能标准

产品型号：Q41FY/Q641FY/Q941FY
公称通径：DN15-250
公称压力：PN10-320 LB150-2500
制造标准：GB, JB, HG, ANSI
适用温度：-29℃ ~ 540℃
使用介质：水、蒸汽、气体、油品等



一、概述

球阀具有流体阻力小、流通通畅、启闭迅速、易于自动化控制等特点，因而得到了越来越广泛的应用。但由于常规球阀的阀座一般采用聚四氟乙烯等非金属材料制作，受阀座密封材料的限制，常规球阀不能在高温工况下使用，也无法用于含固体颗粒、灰渣等介质，故常规球阀在使用中受到的一定的限制。而硬密封球阀是金属对金属密封，由不同材料组成，所以有效解决高温、高压、含颗粒及复杂的流体介质和恶劣的工况条件，因此在石油、化工、电力、冶金、轻工等行业得到广泛的应用。本公司生产的硬密封球阀技术达到国内领先水平。

二、优点

- 1、全通径:全开时介质不受通道的影响
- 2、开关速度快:球阀为水平90° 旋转，在几秒内就可以全开或全关，在通道出现紧急情况能迅速终止介质，从而避免或减少事故所造成的损失
- 3、球阀在全开或全关时，阀座不受介质的冲刷，从而大大提高使用寿命。
- 4、球阀90° 部分旋转，因此填料不易损坏，这是截止阀和闸阀所不能替代的。

三、用途

金属硬密封球阀适用于Class150~Class2500、PN16~PN420、JIS10K~JIS20K的各种管路上，用于截断或接通管路中的介质，选用不同的材质，可分别适用于非腐蚀性介质、弱腐蚀性介质、硝酸、醋酸、氧化性介质、尿素等多种介质，特别适用于含固体颗粒介质、料浆、煤粉、灰渣等苛刻工况。金属硬密封球阀的驱动方式为手动、蜗轮蜗杆传动、气动或电动。金属硬密封球阀一般采用法兰连接，也可采用对焊连接、承插焊连接、螺纹连接及对夹连接。

四、先进的结构设计特点

1、采用先进的球体和阀座硬化技术

金属硬密封球阀的球体与阀座完全采用金属对金属的密封方式，为了确保阀门在各种温度和压力下的可靠密封，针对用户的不同使用工况和要求，可以采用多种先进的球体和阀座的硬化技术，包括超音速喷涂、镍基喷焊、真空离子氮化以及镀硬铬处理、表面特殊硬化、硬质合金喷焊和采用高强度陶瓷材料等，球体和阀座的表面硬度一般可以达到HRC60以上，最高可达HRC72以上。密封面材料耐温一般可达500C，最高可达880C。材料的结合强度可以达到1000PS以上。密封面材料还具有很好的耐磨擦、耐冲击等性能。豪利达金属硬密封球阀能够适用于绝大多数的苛刻工况条件。

2、防止阀门在高温下的胀死

高温工况下由于热膨胀而容易引起球体与阀座的胀死，从而导致阀门无法开启。豪利达金属硬密封球阀采用了碟簧和线型弹簧加载的密封结构，在高温工况下零部件的热膨胀可以被弹簧所吸收，故能够保证阀门在高温下不会被胀死，并能够在高温下灵活启闭。

3、优异的密封性能

采用独特的球体研磨工艺，通过球体与阀座在空间不同方位的旋转，使球体和阀座表面达到极高的圆度和光洁度，阀门的密封性能完全达到或超过标准要求。

4、完全的防火结构设计

阀门的密封面采用金属对金属密封结构，阀杆和阀座填料采用柔性石墨，垫片采用不锈钢+柔性石墨结构。因此，阀门即使在火灾情况下也能确保可靠的密封。

5、自然的防静电结构设计

金属硬密封球阀的阀体、阀座、球体等金属零件紧密接触，形成了自然静电通道。因此，金属硬密封球阀不需要设置专门的防静电装置。

6、良好的阀杆自密封结构

在高压的作用下，阀杆阀头自密封结构会随着压力的加大而增加自密封的挤压，从而达到自密封的作用，压力越高密封性能越好。

7、双阻及泄放功能

金属硬密封固定球阀一般采用前阀座密封结构。金属硬密封固定球阀的两个阀座能独立切断进口端和出口端的介质，实现双阻断功能。当球阀关闭时，即使阀门进出口两端同时受压，阀门中腔和两端通道也可以被相互阻断，中腔内的剩余介质可以通过泄放阀排出。

8、可靠的阀杆防吹出结构设计

阀杆采用倒密封下装式结构设计，即使在阀腔异常升压以及填料板失效的极端情况下，也能保证阀杆不会被介质吹出。

Overview

Ball valve has the characteristics of low fluid resistance, smooth flow channel, quick opening and closing, easy automatic control, etc., so it has been more and more widely used. However, because the valve seat of the conventional ball valve is generally made of non-metallic materials such as polytetrafluoroethylene, limited by the sealing material of the valve seat, the conventional ball valve can not be used under high temperature conditions, nor can it be used for media containing solid particles, ash and other media, so the conventional ball valve is subject to certain restrictions in use. The hard seal ball valve is metal-to-metal seal, composed of different materials, so it effectively solves the high temperature, high pressure, containing particles and complex fluid media and harsh working conditions, so it is widely used in petroleum, chemical, electric power, metallurgy, light industry and other industries. The hard sealing ball valve technology produced by the company has reached the leading level in China.

advantage

- 1, full diameter: the medium is not affected by the channel when it is fully open
- 2, the switching speed is fast: the ball valve is rotated horizontally at 90° , which can be fully opened or fully closed in a few seconds, and the media can be broken quickly in the channel in case of emergency, so as to avoid or reduce the loss caused by the accident
- 3. When the ball valve is fully opened or fully closed, the seat is not washed by the medium, thus greatly improving the service life.
- 4, ball valve 90° part rotation, so the packing is not easy to damage, which is the globe valve and gate valve can not be replaced.

use

Metal hard sealed ball valve is suitable for all kinds of pipelines of Class150~Class2500, PN16~PN420, JIS10K~JIS20K, used to cut off or connect the medium in the pipeline, choose different materials, it can be applied to non-corrosive medium, weakly corrosive medium, nitric acid, acetic acid, oxidizing medium, urea and other media, especially suitable for harsh conditions including solid particle medium, slurry, pulverized coal, ash and so on. The metal hard seal ball valve is driven by manual, worm gear, pneumatic or electric. Metal hard sealed ball valve generally adopts flange connection, can also use butt welding connection, socket welding connection, thread connection and clamp connection.

Advanced structural design features

Advanced ball and seat hardening technology

The ball and seat of the ball valve are completely sealed metal-to-metal. In order to ensure the reliable sealing of the valve under various temperatures and pressures, a variety of advanced hardening technologies of the ball and seat can be used for different working conditions and requirements of users. Including supersonic spraying, nickel-based spray welding, vacuum ion nitriding and hard chrome plating treatment, special surface hardening, cemented carbide spray welding and the use of high-strength ceramic materials, the surface hardness of the ball and seat generally can reach HRC60 or more, up to HRC72 or more. Sealing surface material temperature resistance generally up to 500C, up to 880C. The bonding strength of the material can reach more than 1000PS. The sealing surface material also has good resistance to friction and impact. Halida metal hard seal ball valve can be applied to most of the harsh working conditions.

Prevents valve from swelling and dying at high temperatures

Under high temperature conditions, due to thermal expansion, it is easy to cause the expansion of the ball and the seat, resulting in the valve cannot be opened. Halida metal hard sealed ball valve adopts disc spring and linear spring loading sealing structure, under high temperature conditions, the thermal expansion of parts can be absorbed by the spring, so it can ensure that the valve will not be inflated at high temperature, and can be flexibly opened and closed at high temperature.

Excellent sealing performance

Using a unique ball grinding process, through the ball and the seat in different directions of the space rotation, so that the ball and the seat surface to achieve a very high roundness and finish, the sealing performance of the valve fully meet or exceed the standard requirements.

Completely fireproof structural design

The sealing surface of the valve adopts metal-to-metal sealing structure, the valve stem and seat packing adopts flexible stone sag, and the gasket adopts stainless steel + flexible graphite structure. As a result, the valve ensures a reliable seal even in case of fire.

Natural antistatic structure design

Metal hard seal ball valve body, seat, ball and other metal parts close contact, forming a natural electrostatic channel. Therefore, the metal hard seal ball valve does not need to set up a special anti-static device.

Good stem self-sealing structure

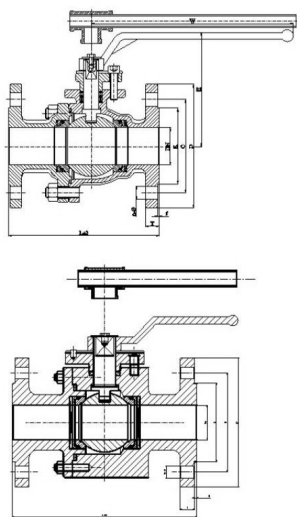
Under the action of high pressure, the valve stem reverse self-sealing structure will increase the self-sealing extrusion with the increase of pressure, so as to achieve the role of self-sealing, the higher the pressure, the better the sealing performance.

Dual resistance and bleed function

Metal hard seal fixed ball valve generally adopts the front Fujian seat seal structure. The two seats of the metal hard seal fixed ball valve can independently cut off the medium at the inlet end and the outlet end to achieve double blocking function. When the ball valve is closed, even if the inlet and outlet of the valve are under pressure at the same time, the valve cavity and the channel at both ends can be blocked by each other, and the remaining medium in the cavity can be discharged through the drain valve.

Reliable stem blow-out structure design

The valve stem adopts the inverted seal and lower structure design, which can ensure that the valve stem will not be blown out by the medium even in the extreme case of abnormal pressure increase of the valve chamber and the failure of the packing plate.



产品性能规范 Product performance specification

压力等级 pressure rating		公称压力 Nominal pressure				
		1.6	2.5	4.0	6.4	10.0
试验压力 Test pressure	壳体试验Shell test	2.4	3.75	6.0	9.6	15.0
	密封试验Sealing test	1.76	2.75	4.4	7.04	11.0
适用规范 Applicable specifications	设计制造按 Design and manufacture press	GB/T 12237 ; GB/T 21385-2008				
	法兰尺寸按 Flange dimensions according to	HG/T20592-2009				
	结构长度按 Structure length press	GB/T 12221 ; JB 1686-75				
	检验试验按 Inspection test press	GB/T 13927				
材质 material		WCB/CF8/CF8M/A105/F304/F316, 铬钢, 双相钢, 低温钢, 等。				

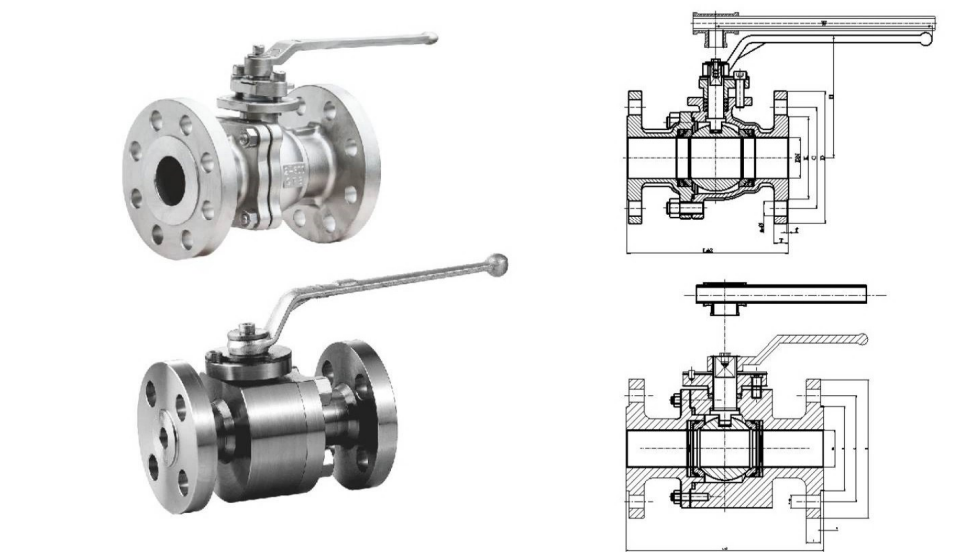
PN16							
DN	L	D	C	K	T	N-Φ	f1
15	130	95	65	45	16	4-Φ14	2
20	140/130	105	75	58	18	4-Φ14	2
25	150/140	115	85	68	18	4-Φ14	2
32	165	140	100	78	18	4-Φ18	2
40	180	150	110	88	18	4-Φ18	2
50	200	165	125	102	18	4-Φ18	2
65	220	185	145	122	18	8-Φ18	2
80	250	200	160	138	20	8-Φ18	2
100	280	220	180	158	20	8-Φ18	2
125	320	250	210	188	22	8-Φ18	2
150	360	285	240	212	22	8-Φ22	2
200	400	340	295	268	24	12-Φ22	2

PN25							
DN	L	D	C	K	T	N-Φ	f1
15	130	95	65	45	16	4-Φ14	2
20	140/130	105	75	58	18	4-Φ14	2
25	150/140	115	85	68	18	4-Φ14	2
32	165	140	100	78	18	4-Φ18	2
40	180	150	110	88	18	4-Φ18	2
50	200	165	125	102	18	4-Φ18	2
65	220	185	145	122	18	8-Φ18	2
80	250	200	160	138	20	8-Φ18	2
100	280	220	180	158	20	8-Φ18	2
125	320	250	210	188	22	8-Φ18	2
150	360	285	240	212	22	8-Φ22	2
200	400	340	295	268	24	12-Φ22	2

PN40							
DN	L	D	C	K	T	N-Φ	f1
15	130	95	65	45	16	4-Φ14	2
20	140/130	105	75	58	18	4-Φ14	2
25	150/140	115	85	68	18	4-Φ14	2
32	165	140	100	78	18	4-Φ18	2
40	180	150	110	88	18	4-Φ18	2
50	200	165	125	102	18	4-Φ18	2
65	220	185	145	122	18	8-Φ18	2
80	250	200	160	138	20	8-Φ18	2
100	280	220	180	158	20	8-Φ18	2
125	320	250	210	188	22	8-Φ18	2
150	360	285	240	212	22	8-Φ22	2
200	400	340	295	268	24	12-Φ22	2

PN63							
DN	L	D	C	K	T	N-Φ	f1
15	140	95	65	45	16	4-Φ14	2
20	150	105	75	58	18	4-Φ14	2
25	180	115	85	68	18	4-Φ14	2
40	220	150	110	88	18	4-Φ18	2
50	250	165	125	102	20	4-Φ18	2
65	280	185	145	122	22	8-Φ18	2
80	320	200	160	138	24	8-Φ18	2
100	360	235	190	162	24	8-Φ22	2

PN100								
DN	L	D	C	K	G	T	f1	N-Φ
15	165	105	75	55	40	20	2	4-Φ14
20	190	130	90	68	51	22	2	4-Φ18
25	216	140	100	78	58	24	2	4-Φ18
40	241	170	125	95	76	28	2	4-Φ22
50	292	195	145	112	88	30	2	4-Φ26
65	330	220	170	138	110	34	2	8-Φ26
80	356	230	180	148	121	36	2	8-Φ26
100	432	265	210	172	150	40	2	8-Φ30



产品性能规范 Product perfomance specification

压力等级 pressure rating		公称压力 Nominal pressure					
		150	300	400	600	900	1500
试验压力 Test pressure	壳体试验Shell test	3.0	7.5	10.2	16.5	24.0	37.5
	密封试验Sealing test	2.2	5.5	7.48	12.1	17.6	27.5
适用规范 Applicable specifications	设计制造按 Design and manufacture press	API 608 / API 6D					
	法兰尺寸按 Flange dimensions according to	ASME B16.5 ; HG/T 20615					
	结构长度按 Structure length press	ASME B16.10					
	检验试验按 Inspection test press	API 598					
材质 material		WCB/304/316/A105/F304/F316, 铬银钢, 双相钢, 低温钢, 等。					

规格主要尺寸SizeMain Dimensions

DN				d	D	C	K	T	f	Z-φd0
mm	in	RF	RTJ							
Class 150										
15	1/2	108	119	21.3	90	60.3	35	9.6	2	4-14
20	3/4	117	130	26.9	100	69.9	43	11.2	2	4-16
25	1	127	140	33.7	110	79.4	51	12.7	2	4-16
32	1-1/4	140	153	42.4	115	88.9	64	14.3	2	4-16
40	1-1/2	165	178	48.3	125	98.4	73	15.9	2	4-16
50	2	178	191	60.3	150	120.7	92	17.5	2	4-18
65	2-1/2	190	203	76.1	180	139.7	105	20.7	2	4-18
80	3	203	216	88.9	190	152.4	127	22.3	2	4-18
100	4	229	242	114.3	230	190.5	157	22.3	2	8-18
125	5	356	369	139.7	255	215.9	186	22.3	2	8-22
150	6	394	407	168.3	280	241.5	216	23.9	2	8-22
200	8	457	470	219.1	345	298.5	270	27.0	2	8-22

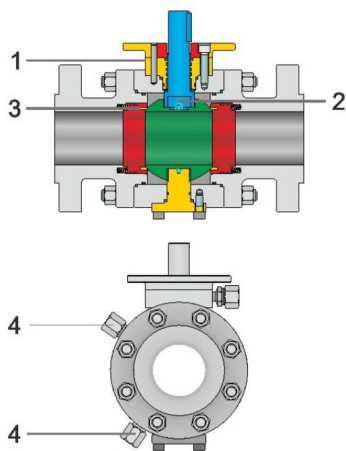
DN		L		d	D	C	K	T	f	Z-φd0	手动 Manual
mm	in	RF	RTJ								
Class 300											
15	1/2	140	151	21.3	95	66.7	35	12.7	2	4-16	160
20	3/4	152	165	26.9	115	82.6	43	14.3	2	4-18	180
25	1	165	178	33.7	125	88.9	51	15.9	2	4-18	180
32	1-1/4	178	191	42.4	135	98.4	64	17.5	2	4-18	200
40	1-1/2	190	203	48.3	155	114.3	73	19.1	2	4-22	220
50	2	216	232	60.3	165	127.0	92	20.7	2	8-18	240
65	2-1/2	241	257	76.1	190	149.2	105	23.9	2	8-22	300
80	3	281	299	88.9	210	168.3	127	27.0	2	8-22	350
100	4	305	321	114.3	255	200.0	157	30.2	2	8-22	420
125	5	381	397	139.7	280	235.0	186	33.4	2	8-22	560
150	6	403	419	168.3	320	269.9	216	35.0	2	12-22	800
200	8	502	518	219.1	380	330.2	270	39.7	2	12-26	1200

Class 600											
15	1/2	165	164	21.3	95	66.7	35	14.3	7	4-16	180
20	3/4	190	190	26.9	115	82.6	43	15.9	7	4-18	200
25	1	216	216	33.7	125	88.9	51	17.5	7	4-18	220
32	1-1/4	229	229	42.4	135	98.4	64	20.7	7	4-18	280
40	1-1/2	241	241	48.3	155	114.3	73	22.3	7	4-22	320
50	2	292	295	60.3	165	127.0	92	25.4	7	8-18	400
65	2-1/2	330	333	76.1	190	149.3	105	28.6	7	8-22	450
80	3	356	359	88.9	210	168.3	127	31.8	7	8-22	500
100	4	432	435	114.3	275	215.9	157	38.1	7	8-26	650

Class 900											
15	1/2	216	216	21.3	120	82.6	35	22.3	7	4-22	200
20	3/4	229	229	26.9	130	88.9	43	25.4	7	4-22	220
25	1	254	254	33.7	150	101.6	51	28.6	7	4-26	250
32	1-1/4	279	279	42.4	160	111.1	64	28.6	7	4-26	320
40	1-1/2	305	305	48.3	180	123.8	73	31.8	7	4-30	400
50	2	368	371	60.3	215	165.1	92	38.1	7	8-26	450

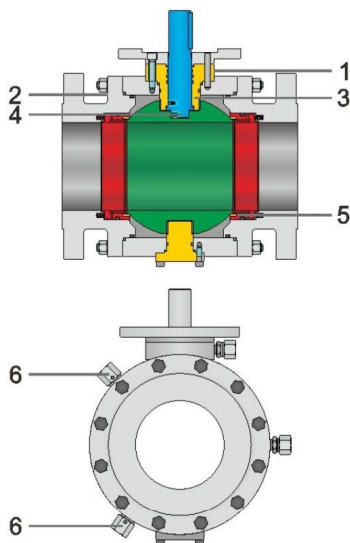
Class 1500											
15	1/2	216	216	21.3	120	82.6	35	22.3	7	4-22	200
20	3/4	229	229	26.9	130	88.9	43	25.4	7	4-22	220
25	1	254	254	33.7	150	101.6	51	28.6	7	4-26	250
32	1-1/4	279	279	42.4	160	111.1	64	28.6	7	4-26	320
40	1-1/2	305	305	48.3	180	123.8	73	31.8	7	4-30	400
50	2	368	371	60.3	215	165.1	92	38.1	7	8-26	450

球阀构造



NPS2"~4"固定球阀

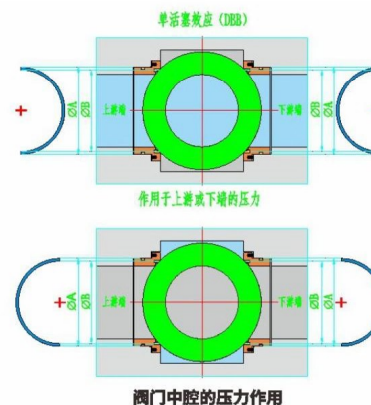
- 1 阀杆注脂阀装置, 在紧急状态下, 通过注脂, 可防止阀杆部位泄露。
- 2 阀杆防飞设计, 保证不同压力下的阀杆安全。
- 3 软密封材料, 在火灾情况下被破坏后, 金属阀座在弹簧及压力作用下推向金属球体, 防止介质泄露。
- 4 放空阀/堵头装置, 可泄压及排放阀腔内的污物。



NPS6"~24"固定球阀

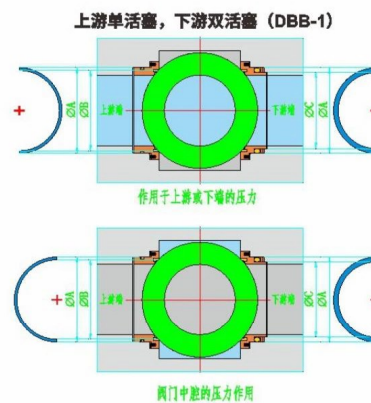
- 1 阀杆注脂阀装置, 在紧急状态下, 通过注脂, 可防止阀杆部位泄露。
- 2 阀座注脂阀装置, 在紧急状态下, 通过注脂, 可防止阀座部位泄露。
- 3 填料箱固定球体设计, 保证阀杆操作中不侧向, 降低操作扭矩, 提高安全性。
- 4 阀杆防飞设计, 保证不同压力下的阀杆安全。
- 5 软密封材料, 在火灾情况下被破坏后, 金属阀座在弹簧及压力作用下推向金属球体, 防止介质泄露。
- 6 放空阀/堵头装置, 可泄压及排放阀腔内的污物。

密封构造



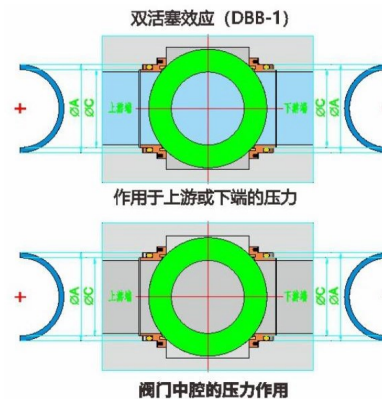
双活塞效应(DIB-1)

球阀关闭时, 上游或下游端介质压力总是将阀座推向球体, 保持密封状态, 所以不具备中腔自泄压功能。因此一般情况球阀需在阀体上安装自动泄压阀, 当中腔压力超出设计压力时, 可自动泄压阀释放压力。



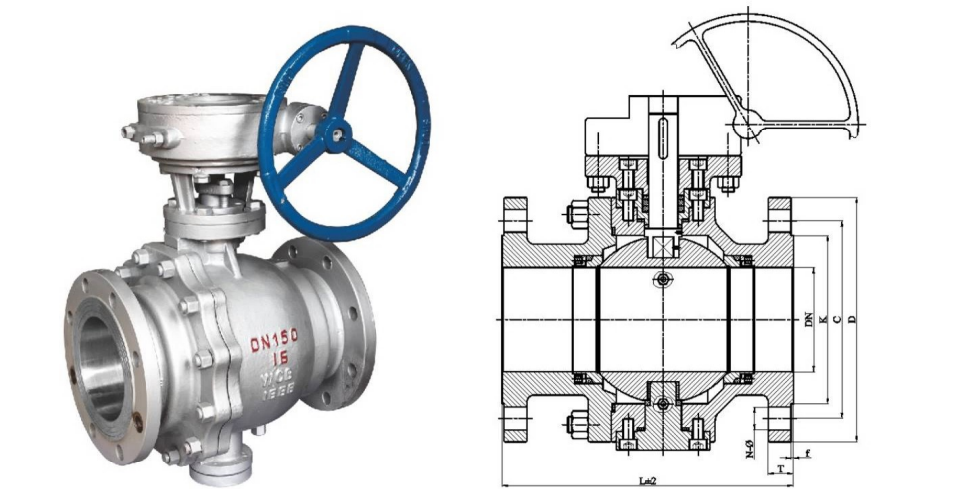
单活塞效应(DBB)

球阀关闭时, 上游或下游端介质将阀座推向球体。如中腔压力超出弹簧预紧力与上下游介质压力之和时, 阀座被中腔压力推离球体, 中腔产生的过高压, 被自动释放。



上游单活塞,下游双活塞(DIB-2)

上游端采用单活塞设计, 球阀关闭时, 介质压力将阀座推向球体, 形成密封。当中腔压力过高时, 可推动上游阀座脱离球体, 从而将过高的中腔压力向上游端自动泄放。下游端采用双活塞设计, 介质压力始终将阀座推向球体, 下游端阀座一直保持密封状态。



产品性能规范 Product performance specification

压力等级 pressure rating		公称压力 Nominal pressure				
		1.6	2.5	4.0	6.4	10.0
试验压力 Test pressure	壳体试验Shell test	2.4	3.75	6.0	9.6	15.0
	密封试验Sealing test	1.76	2.75	4.4	7.04	11.0
通用规范 Applicable specifications	设计制造按 Design and manufacture press	GB/T 12237 ; GB/T 21385-2008				
	法兰尺寸按 Flange dimensions according to	HG/T20592-2009				
	结构长度按 Structure length press	GB/T 12221 ; JB 1686-75				
	检验试验按 Inspection test press	GB/T 13927				
材质 material		WCB/CF8/CF8M/A105/F304/F316, 铬钢, 双相钢, 低温钢, 等。				

DN mm	L	d	D	D1	D2	D3	b	f	Z-Φd0
PN16									
40	180	40	150	110	88	-	18	2	4-18
50	200	50	165	125	102	-	18	2	4-18
65	220	65	185	145	122	-	18	2	8-18
80	250	80	200	160	138	-	20	2	8-18
100	280	100	220	180	158	-	20	2	8-18
125	320	125	250	210	188	-	22	2	8-18
150	360	150	285	240	212	-	22	2	8-22
200	400	200	340	295	268	-	24	2	12-22

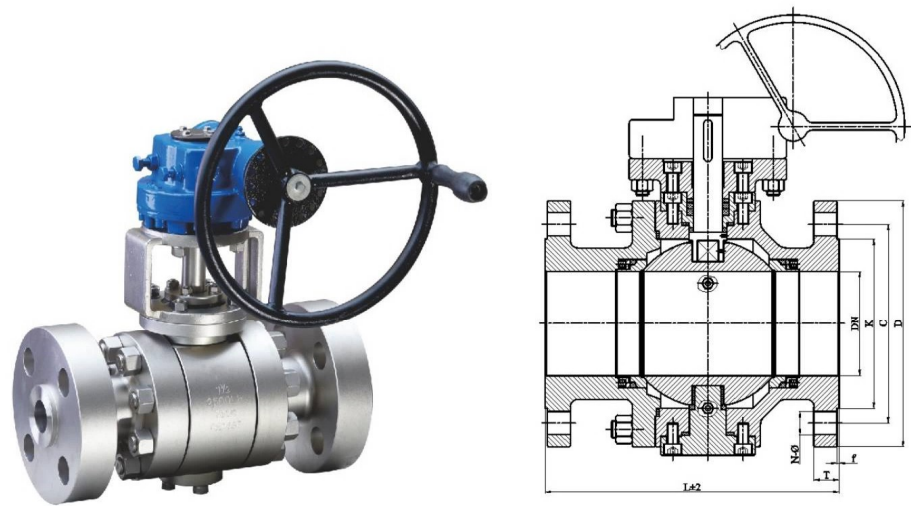
DN mm	L	d	D	D1	D2	D3	b	f	Z-Φd0
PN25									
40	180	40	145	110	88	-	18	2	4-18
50	200	50	160	125	102	-	20	2	4-18
65	220	65	180	145	122	-	22	2	8-18
80	250	80	195	160	138	-	24	2	8-18
100	280	100	235	190	162	-	24	2	8-22
125	320	125	270	220	188	-	26	2	8-26
150	360	150	300	250	218	-	28	2	8-26
200	400	200	350	310	278	-	30	2	12-26

PN40									
40	180	40	250	110	88	76	18	2	4-18
50	200	50	165	125	102	88	20	2	4-18
65	220	65	185	145	122	110	22	2	8-18
80	250	80	200	160	138	121	24	2	8-18
100	280	100	232	190	162	150	24	2	8-22
125	320	125	270	220	188	176	26	2	8-26
150	360	150	300	250	218	204	28	2	8-26
200	400	200	375	320	285	260	34	2	12-30

PN63									
40	190	40	170	125	88	76	28	2	4-22
50	216	50	180	135	102	88	26	2	4-22
65	241	65	205	160	122	110	26	2	8-22
80	281	80	215	170	138	121	28	2	8-22
100	305	100	250	200	162	150	30	2	8-26
125	381	125	295	240	188	176	34	2	8-30
150	403	150	345	280	218	204	36	2	8-33
200	502	200	415	345	285	260	42	2	12-36

PN100									
40	241	40	170	125	88	76	28	2	4-22
50	292	50	195	145	102	88	30	2	4-26
65	330	65	220	170	122	110	34	2	8-26
80	356	80	230	180	138	121	36	2	8-26
100	432	100	265	210	162	150	40	2	8-30
125	508	125	315	250	188	176	40	2	8-33
150	559	150	355	290	218	204	44	2	12-33
200	660	200	430	360	285	260	52	2	12-36

PN160									
40	305	40	170	125	88	76	28	2	4-22
50	368	50	195	145	102	88	30	2	4-26
65	419	65	220	170	122	110	34	2	8-26
80	281	80	230	180	138	121	40	2	8-26
100	457	100	265	210	162	150	44	2	8-30
125	559	125	315	250	188	176	50	2	8-33
150	610	150	355	290	218	204	60	2	12-33
200	737	200	430	360	288	260	68	2	12-36



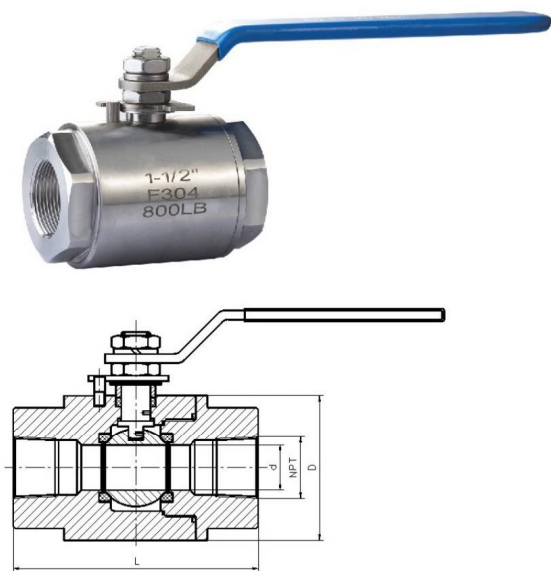
DN		L		d	D	D1	D2	b	f	Z-φd0
mm	in	RF	RTJ							
Class150										
40	1-1/2"	165	178	48.3	125	98.4	73	15.9	2	4-16
50	2"	178	191	60.3	150	120.7	92	17.5	2	4-18
65	2-1/2"	190	203	76.1	180	139.7	105	20.7	2	4-18
80	3"	203	216	88.9	190	152.4	127	22.3	2	4-18
100	4"	229	242	114.3	230	190.5	157	22.3	2	8-18
125	5"	356	369	139.7	255	215.9	186	22.3	2	8-22
150	6"	394	407	168.3	280	241.5	216	23.9	2	8-22
200	8"	457	470	219.1	345	298.5	270	27.0	2	8-22

DN		L		d	D	D1	D2	b	f	Z-φd0
mm	in	RF	RTJ							
Class300										
40	1-1/2"	190	203	48.3	155	114.3	73	19.1	2	4-22
50	2"	216	232	60.3	165	127.0	92	20.7	2	8-18
65	2-1/2"	241	257	76.1	190	149.2	105	23.9	2	8-22
80	3"	281	299	88.9	210	168.3	127	27.0	2	8-22
100	4"	305	321	114.3	255	200.0	157	30.2	2	8-22
125	5"	381	397	139.7	280	235.0	186	33.4	2	8-22
150	6"	403	419	168.3	320	269.9	216	35.0	2	12-22
200	8"	502	518	219.1	380	330.2	270	39.7	2	12-26

产品性能规范 Product performance specification

压力等级 pressure rating		公称压力 Nominal pressure					
		150	300	400	600	900	1500
试验压力 Test pressure	壳体试验Shell test	3.03	7.5	10.2	15.0	22.0	37.5
	密封试验Sealing test	2.2	5.5	7.48	11.0	17.0	27.5
适用规范 Applicable specifications	设计制造按 Design and manufacture press	API 608 / API 6D					
	法兰尺寸按 Flange dimensions according to	ASME B16.5 ; HG/T 20615					
	结构长度按 Structure length press	ASME B16.10					
	检验试验按 Inspection test press	API 598					
材质 material		WCB/304/316/A105/F304/F316, 铬钨钢, 双相钢, 低温钢, 等。					

DN		L		d	D	D1	D2	b	f	Z-Φd0
mm	in	RF	RTJ							
Class600										
40	1-1/2"	241	241	48.3	155	114.3	73	22.3	7	4-22
50	2"	292	292	60.3	165	127.0	92	25.4	7	8-18
65	2-1/2"	330	330	76.1	190	149.2	105	28.6	7	8-22
80	3"	356	356	88.9	210	168.3	127	31.8	7	8-22
100	4"	432	432	114.3	273	215.9	186	38.1	7	8-26
150	5"	508	508	139.7	330	266.7	210	44.5	7	8-29
200	6"	559	559	168.3	356	292.1	241	47.7	7	12-29
250	8"	660	660	219.1	419	249.2	302	55.6	7	12-32

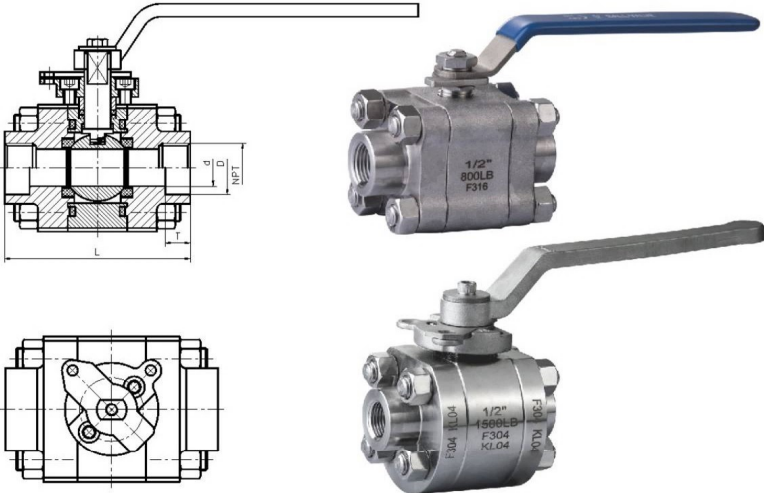


应用规范Application specifications

- 1、设计制造:Design and manufacture conform to API608;
2、连接端尺寸:Connection ends conform to:
1)承插口尺寸按:Scket welded ends conform to ANSIB16.11;JBT1751
2)螺纹端尺寸按:Screw ends conform to ANSIB1.20.1;JB/T7306
3)对焊端尺寸按:Butt-welded ends conform to ANSIB16.25;JB/T12224
4)法兰端尺寸按:Flanged ends conform to ANSIB16.5;JB79
5)承插焊标准ASME B16.11
- 3、阀门检查和试验:Test and inspection conform to:
AP1598;GB/T13927; JB/T9092
4、结构特征:Structure features:4、
螺栓连接阀盖:两段式Bolted bonnet; two-piece;
5、材料:按Materials conform to ANSI/ASTM规定。
A105;LF2;F5;F11;F22;F304;F316;F51;Monel;2205;2507。

CL800

规格(NPS) Specification	缩径(R.P)		1/2	3/4	1	1-1/4	1-1/2	2	
	全径(F.P)	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
结构长度(mm) Face to face	L1	85	85	85	95	105	115	130	150
承插焊口径(mm) Socket welding size	D	14.5	18	22	27.5	34.5	43	49	61.5
承插焊深度(mm) Depth of Socket	T	9.5	9.5	10	13	13	13	13	16
中心至手柄端(mm) Center to handle end	B	160	160	160	175	195	205	240	280
流道孔径(mm) Height(angle dinmension)	d	6	9	12.5	17	24	37	37	49



应用规范Application specifications

- 1、设计制造:Design and manufacture conform to API608;
2、连接端尺寸:Connection ends conform to:
1)承插口尺寸按:Scket welded ends conform to ANSIB16.11;JBT1751
2)螺纹端尺寸按:Screw ends conform to ANSIB1.20.1;JB/T7306
3)对焊端尺寸按:Butt-welded ends conform to ANSIB16.25;JB/T12224
4)法兰端尺寸按:Flanged ends conform to ANSIB16.5;JB79
- 3、阀门检查和试验:Test and inspection conform to:
AP1598;GB/T13927; JB/T9092
4、结构特征:Structure features:4、
螺栓连接阀盖:三段式Bolted bonnet; three-piece;
5、材料:按Materials conform to ANSI/ASTM规定。
A105;LF2;F5;F11;F22;F304;F316;F51;Monel;2205;2507。

CL800~CL1500

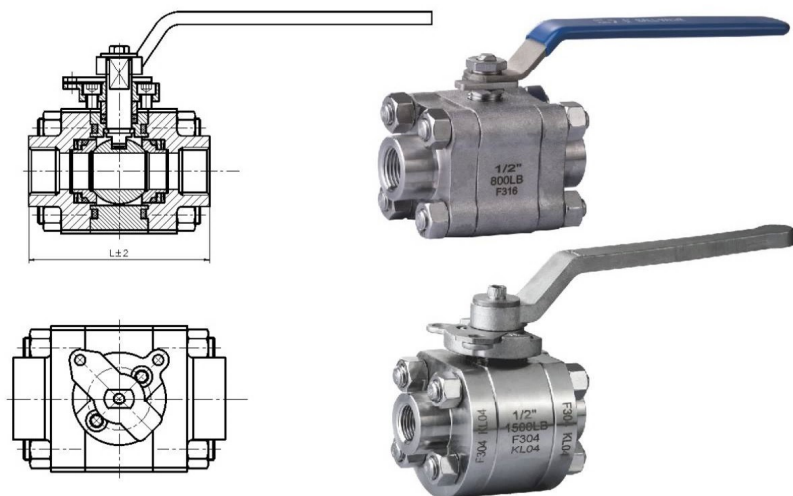
规格(NPS) Specification	全径(F.P)	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
结构长度(mm) Face to face	L	97	97	97	118	128	135	152	175
对焊口径 (mm) Butt welding size	D1	13.7	17.1	21.3	26.7	33.4	42.2	48.3	60.3
承插焊口径 (mm) Socket welding size	D	14.5	18	22	27.5	34.5	43	49	61.5
承插焊深度 (mm) Depth of Socket	T	9.5	9.5	10	13	13	13	13	16
流道孔径(mm) Height(angle dinmension)	d	6	9	12.5	17	24	37	37	49

CL2500

规格(NPS) Specification	全径(F.P)	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
结构长度(mm) Face to face	L	125	125	125	140	155	170	180	200
对焊口径 (mm) Butt welding size	D1	13.7	17.1	21.3	26.7	33.4	42.2	48.3	60.3
承插焊口径 (mm) Socket welding size	D	14.5	18	22	27.5	34.5	43	49	61.5
承插焊深度 (mm) Depth of Socket	T	9.5	9.5	10	13	13	13	13	16
流道孔径(mm) Height(angle dinmension)	d	6	9	12.5	17	24	37	37	49

三片式锻钢硬密封球阀

Three piece forged steel hard sealed ball valve



应用规范Application specifications

1. 设计制造: Design and manufacture conform to API608;
2. 连接端尺寸: Connection ends conform to:
 - 1) 承插口尺寸按: Socket welded ends conform to ANSI B16.11; JBT1751
 - 2) 螺纹端尺寸按: Screw ends conform to ANSI B1.20.1; JB/T7306
 - 3) 对焊端尺寸按: Butt-welded ends conform to ANSI B16.25; JB/T12224
 - 4) 法兰端尺寸按: Flanged ends conform to ANSI B16.5; JB79
3. 阀门检查和试验: Test and inspection conform to: API598; GB/T13927; JB/T9092
4. 结构特征: Structure features: 4. 螺栓连接阀盖: 三段式 Bolted bonnet; three-piece;
5. 材料: 按 Materials conform to ANSI/ASTM 规定。A105; LF2; F5; F11; F22; F304; F316; F51; Monel; 2205; 2507。

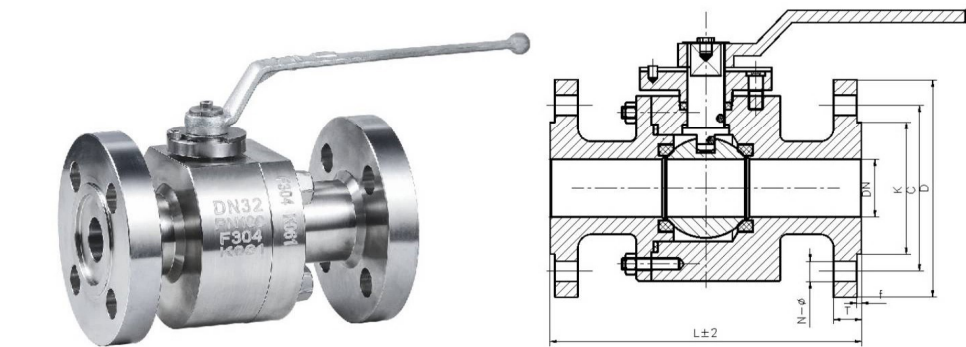
CL800~CL1500

规格(NPS) Specification	全径(F.P)	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
结构长度(mm) Face to face	L	97	97	97	118	128	135	152	175
对焊口径 (mm) Butt welding size	D1	13.7	17.1	21.3	26.7	33.4	42.2	48.3	60.3
承插焊口径 (mm) Socket welding size	D	14.5	18	22	27.5	34.5	43	49	61.5
承插焊深度 (mm) Depth of Socket	T	9.5	9.5	10	13	13	13	13	16
流道孔径(mm) Height(angle dinmension)	d	6	9	12.5	17	24	37	37	49

CL2500

规格(NPS) Specification	全径(F.P)	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
结构长度(mm) Face to face	L	125	125	125	140	155	170	180	200
对焊口径 (mm) Butt welding size	D1	13.7	17.1	21.3	26.7	33.4	42.2	48.3	60.3
承插焊口径 (mm) Socket welding size	D	14.5	18	22	27.5	34.5	43	49	61.5
承插焊深度 (mm) Depth of Socket	T	9.5	9.5	10	13	13	13	13	16
流道孔径(mm) Height(angle dinmension)	d	6	9	12.5	17	24	37	37	49





产品性能规范 Product performance specification

压力等级 pressure rating		公称压力 Nominal pressure				
		1.6	2.5	4.0	6.4	10.0
试验压力 Test pressure	壳体试验Shell test	2.4	3.75	6.0	9.6	15.0
	密封试验Sealing test	1.76	2.75	4.4	7.04	11.0
适用范围 Applicable specifications	设计制造按 Design and manufacture press	GB/T 12237 ; GB/T 21385-2008				
	法兰尺寸按 Flange dimensions according to	HG/T20592-2009				
	结构长度按 Structure length press	GB/T 12221 ; JB 1686-75				
	检验试验按 Inspection test press	GB/T 13927				
材质 material		WCB/CF8/CF8M/A105/F304/F316, 铬钢, 双相钢, 低温钢, 等。				

PN16						
DN	L	D	C	K	T	N-Φ
15	130	95	65	45	16	4-Φ14
20	140	105	75	58	18	4-Φ14
25	150	115	85	68	18	4-Φ14
40	180	150	110	88	18	4-Φ18
50	200	165	125	102	18	4-Φ18
65	220	185	145	122	18	8-Φ18
80	250	200	160	138	20	8-Φ18
100	280	220	180	158	20	8-Φ18

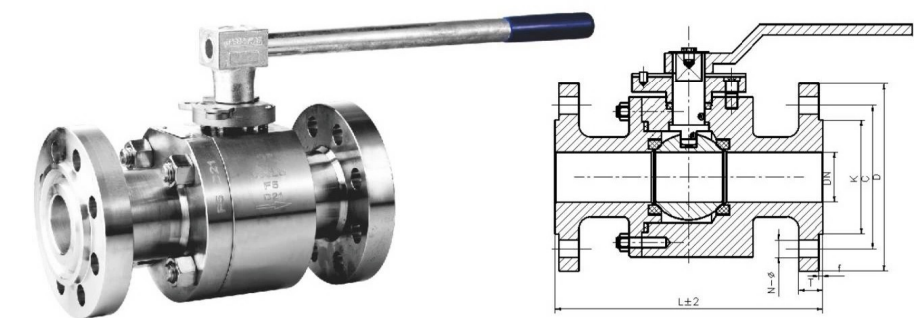
PN25						
DN	L	D	C	K	T	N-Φ
15	130	95	65	45	16	4-Φ14
20	140	105	75	58	18	4-Φ14
25	150	115	85	68	18	4-Φ14
40	180	150	110	88	18	4-Φ18
50	200	165	125	102	20	4-Φ18
65	220	185	145	122	22	8-Φ18
80	250	200	160	138	24	8-Φ18
100	280	235	190	162	24	8-Φ22

PN40						
DN	L	D	C	K	T	N-Φ
15	130	95	65	45	16	4-Φ14
20	140	105	75	58	18	4-Φ14
25	150	115	85	68	18	4-Φ14
40	200	150	110	88	18	4-Φ18
50	220	165	125	102	20	4-Φ18
65	250	185	145	122	22	8-Φ18
80	280	200	160	138	24	8-Φ18
100	320	235	190	162	24	8-Φ22

PN63									
DN	L	D	C	K	G	T	f1	f2	N-Φ
15	140	105	75	55	40	20	2	4	4-Φ14
20	150	130	90	68	51	22	2	4	4-Φ18
25	180	140	100	78	58	24	2	4	4-Φ18
40	220	170	125	95	76	26	2	4	4-Φ22
50	250	180	135	105	88	26	2	4	4-Φ22
65	280	205	160	130	110	26	2	4	8-Φ22
80	320	215	170	140	121	28	2	4	8-Φ22
100	360	250	200	168	150	30	2	4.5	8-Φ26

PN100									
DN	L	D	C	K	G	T	f1	f2	N-Φ
15	165	105	75	55	40	20	2	4	4-Φ14
20	190	130	90	68	51	22	2	4	4-Φ18
25	216	140	100	78	58	24	2	4	4-Φ18
40	241	170	125	95	76	28	2	4	4-Φ22
50	292	195	145	112	88	30	2	4	4-Φ26
65	330	220	170	138	110	34	2	4	8-Φ26
80	356	230	180	148	121	36	2	4	8-Φ26
100	432	265	210	172	150	40	2	4.5	8-Φ30

PN160									
DN	L	D	C	K	G	T	f1	f2	N-Φ
15	216	105	75	55	40	20	2	4	4-Φ14
20	229	130	90	68	51	24	2	4	4-Φ18
25	254	140	100	78	58	24	2	4	4-Φ18
40	305	170	125	95	76	28	2	4	4-Φ22
50	368	195	145	112	88	30	2	4	4-Φ26
65	419	220	170	138	110	34	2	4	8-Φ26
80	381	230	180	148	121	36	2	4	8-Φ26
100	457	265	210	172	150	40	2	4.5	8-Φ30



产品性能规范 Product performance specification

压力等级 pressure rating		公称压力 Nominal pressure					
		150	300	400	600	900	1500
试验压力 Test pressure	壳体试验Shell test	3.0	7.5	10.2	16.5	24.0	37.5
	密封试验Sealing test	2.2	5.5	7.48	12.1	17.6	27.5
适用规范 Applicable specifications	设计制造按 Design and manufacture press	API 608 / API 6D					
	法兰尺寸按 Flange dimensions according to	ASME B16.5 ; HG/T 20615					
	结构长度按 Structure length press	ASME B16.10					
	检验试验按 Inspection test press	API 598					
材质 material		WCB/304/316/A105/F304/F316, 铬钨钢, 双相钢, 低温钢, 等。					

150LB								
NPS	L	D	K	C	d	f	T	N-Φ
1/2"	108	90	60.3	35	15	2	9.6	4-16
3/4"	117	100	69.9	43	20	2	11.2	4-16
1"	127	110	79.4	51	25	2	12.7	4-16
1-1/4"	140	115	88.9	63.5	32	2	14.3	4-16
1-1/2"	165	125	98.4	73	40	2	15.9	4-16
2"	178	150	120.7	92	50	2	17.5	4-19
2-1/2"	190	178	139.7	105	76.1	2	15.9	4-19
3"	203	190	152.4	127	80	2	17.5	4-19
4"	229	229	190.5	157	100	2	22.3	8-19

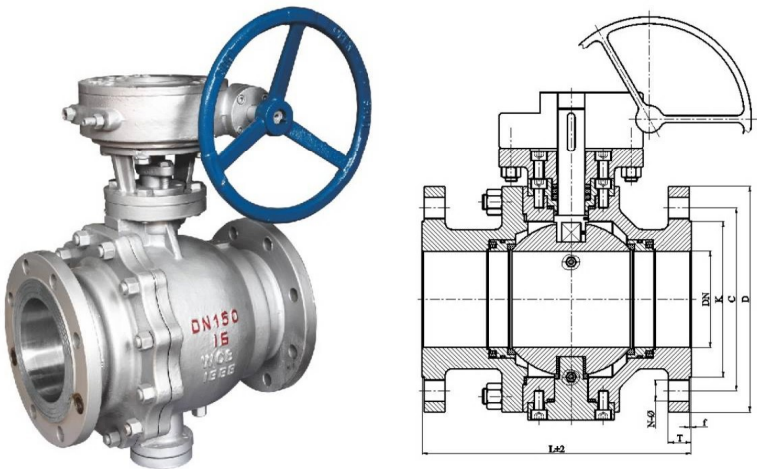
300LB								
NPS	L	D	K	C	d	f	T	N-Φ
1/2"	140	95	66.7	35	15	2	12.7	4-16
3/4"	152	115	82.6	43	20	2	14.3	4-19
1"	165	125	88.9	51	25	2	15.9	4-19
1-1/4"	178	135	98.4	63.5	32	2	17.5	4-19
1-1/2"	190	155	114.3	73	40	2	19.1	4-22
2"	216	165	127	92	50	2	20.7	8-19
2-1/2"	241	190	149.2	105	76.1	2	23.9	8-22
3"	282	210	168.3	127	80	2	27	8-22
4"	305	254	200	157	100	2	30.2	8-22

600LB								
NPS	L	D	K	C	d	f	T	N-Φ
1/2"	165	95	66.7	35	15	7	14.3	4-16
3/4"	190	115	82.6	43	20	7	15.9	4-19
1"	216	125	88.9	51	25	7	17.5	4-19
1-1/4"	229	135	98.4	63.5	32	7	20.7	4-19
1-1/2"	241	155	114.3	73	40	7	22.3	4-22
2"	292	165	127	92	50	7	25.4	8-19
2-1/2"	330	190	149.2	105	76.1	7	28.6	8-22
3"	356	210	168.3	127	80	7	31.8	8-22
4"	432	275	215.9	157	100	7	38.1	8-26

900LB								
NPS	L	D	K	C	d	f	T	N-Φ
1/2"	216	120	82.6	35	15	7	22.3	4-22
3/4"	229	130	88.9	43	20	7	25.4	4-22
1"	254	150	101.6	51	25	7	28.6	4-26
1-1/4"	279	160	111.1	63.5	32	7	28.6	4-26
1-1/2"	305	180	123.8	73	40	7	31.8	4-29
2"	368	215	165.1	92	50	7	38.1	8-26

1500LB								
NPS	L	D	K	C	d	f	T	N-Φ
1/2"	216	120	82.6	35	15	7	22.3	4-22
3/4"	229	130	88.9	43	20	7	25.4	4-22
1"	254	150	101.6	51	25	7	28.6	4-26
1-1/4"	279	160	111.1	63.5	32	7	28.6	4-26
1-1/2"	305	180	123.8	73	40	7	31.8	4-29
2"	368	215	165.1	92	50	7	38.1	8-26

2500LB								
NPS	L	D	K	C	d	f	T	N-Φ
1/2"	264	135	88.9	34.9	13	7	30.2	4-22
3/4"	273	140	95.2	42.9	19	7	31.8	4-22
1"	308	160	108	50.8	25	7	35	4-26
1-1/2"	384	205	146	73	38	7	44.5	4-32
2"	451	235	171.4	92.1	42	7	50.9	8-29



产品性能规范 Product performance specification

压力等级 pressure rating		公称压力 Nominal pressure				
		1.6	2.5	4.0	6.4	10.0
试验压力 Test pressure	壳体试验Shell test	2.4	3.75	6.0	9.6	15.0
	密封试验Sealing test	1.76	2.75	4.4	7.04	11.0
适用规范 Applicable specifications	设计制造按 Design and manufacture press	GB/T 12237 ; GB/T 21385-2008				
	法兰尺寸按 Flange dimensions according to	HG/T20592-2009				
	结构长度按 Structure length press	GB/T 12221 ; JB 1686-75				
	检验试验按 Inspection test press	GB/T 13927				
材质 material		WCB/CF8/CF8M/A105/F304/F316, 铬钢, 双相钢, 低温钢, 等。				

DN mm	L	d	D	D1	D2	D3	b	f	Z-Φd0
PN16									
40	180	40	150	110	88	-	18	2	4-18
50	200	50	165	125	102	-	18	2	4-18
65	220	65	185	145	122	-	18	2	8-18
80	250	80	200	160	138	-	20	2	8-18
100	280	100	220	180	158	-	20	2	8-18
125	320	125	250	210	188	-	22	2	8-18
150	360	150	285	240	212	-	22	2	8-22
200	400	200	340	295	268	-	24	2	12-22

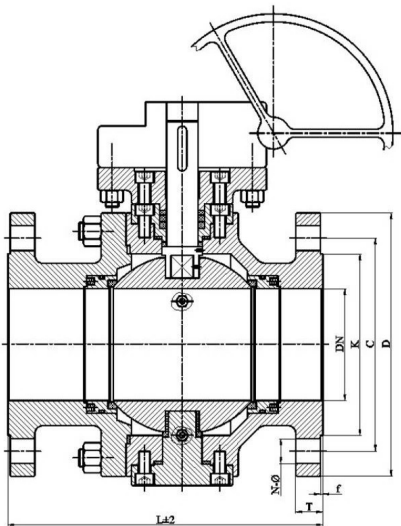
DN mm	L	d	D	D1	D2	D3	b	f	Z-Φd0
PN25									
40	180	40	145	110	88	-	18	2	4-18
50	200	50	160	125	102	-	20	2	4-18
65	220	65	180	145	122	-	22	2	8-18
80	250	80	195	160	138	-	24	2	8-18
100	280	100	235	190	162	-	24	2	8-22
125	320	125	270	220	188	-	26	2	8-26
150	360	150	300	250	218	-	28	2	8-26
200	400	200	350	310	278	-	30	2	12-26

PN40									
40	180	40	250	110	88	76	18	2	4-18
50	200	50	165	125	102	88	20	2	4-18
65	220	65	185	145	122	110	22	2	8-18
80	250	80	200	160	138	121	24	2	8-18
100	280	100	232	190	162	150	24	2	8-22
125	320	125	270	220	188	176	26	2	8-26
150	360	150	300	250	218	204	28	2	8-26
200	400	200	375	320	285	260	34	2	12-30

PN63									
40	190	40	170	125	88	76	28	2	4-22
50	216	50	180	135	102	88	26	2	4-22
65	241	65	205	160	122	110	26	2	8-22
80	281	80	215	170	138	121	28	2	8-22
100	305	100	250	200	162	150	30	2	8-26
125	381	125	295	240	188	176	34	2	8-30
150	403	150	345	280	218	204	36	2	8-33
200	502	200	415	345	285	260	42	2	12-36

PN100									
40	241	40	170	125	88	76	28	2	4-22
50	292	50	195	145	102	88	30	2	4-26
65	330	65	220	170	122	110	34	2	8-26
80	356	80	230	180	138	121	36	2	8-26
100	432	100	265	210	162	150	40	2	8-30
125	508	125	315	250	188	176	40	2	8-33
150	559	150	355	290	218	204	44	2	12-33
200	660	200	430	360	285	260	52	2	12-36

PN160									
40	305	40	170	125	88	76	28	2	4-22
50	368	50	195	145	102	88	30	2	4-26
65	419	65	220	170	122	110	34	2	8-26
80	281	80	230	180	138	121	40	2	8-26
100	457	100	265	210	162	150	44	2	8-30
125	559	125	315	250	188	176	50	2	8-33
150	610	150	355	290	218	204	60	2	12-33
200	737	200	430	360	288	260	68	2	12-36



产品性能规范 Product performance specification

压力等级 pressure rating		公称压力 Nominal pressure					
		150	300	400	600	900	1500
试验压力 Test pressure	壳体试验Shell test	3.03	7.5	10.2	15.0	22.0	37.5
	密封试验Sealing test	2.2	5.5	7.48	11.0	17.0	27.5
适用规范 Applicable specifications	设计制造按 Design and manufacture press	API 608 / API 6D					
	法兰尺寸按 Flange dimensions according to	ASME B16.5 ; HG/T 20615					
	结构长度按 Structure length press	ASME B16.10					
	检验试验按 Inspection test press	API 598					
材质 material		WCB/304/316/A105/F304/F316, 铬镍钢, 双相钢, 低温钢, 等。					

DN		L		d	D	D1	D2	b	f	Z-Φd0
mm	in	RF	RTJ							
Class150										
40	1-1/2"	165	178	48.3	125	98.4	73	15.9	2	4-16
50	2"	178	191	60.3	150	120.7	92	17.5	2	4-18
65	2-1/2"	190	203	76.1	180	139.7	105	20.7	2	4-18
80	3"	203	216	88.9	190	152.4	127	22.3	2	4-18
100	4"	229	242	114.3	230	190.5	157	22.3	2	8-18
125	5"	356	369	139.7	255	215.9	186	22.3	2	8-22
150	6"	394	407	168.3	280	241.5	216	23.9	2	8-22
200	8"	457	470	219.1	345	298.5	270	27.0	2	8-22

DN		L		d	D	D1	D2	b	f	Z-Φd0
mm	in	RF	RTJ							
Class300										
40	1-1/2"	190	203	48.3	155	114.3	73	19.1	2	4-22
50	2"	216	232	60.3	165	127.0	92	20.7	2	8-18
65	2-1/2"	241	257	76.1	190	149.2	105	23.9	2	8-22
80	3"	281	299	88.9	210	168.3	127	27.0	2	8-22
100	4"	305	321	114.3	255	200.0	157	30.2	2	8-22
125	5"	381	397	139.7	280	235.0	186	33.4	2	8-22
150	6"	403	419	168.3	320	269.9	216	35.0	2	12-22
200	8"	502	518	219.1	380	330.2	270	39.7	2	12-26

DN		L		d	D	D1	D2	b	f	Z-Φd0
mm	in	RF	RTJ							
Class600										
40	1-1/2"	241	241	48.3	155	114.3	73	22.3	7	4-22
50	2"	292	292	60.3	165	127.0	92	25.4	7	8-18
65	2-1/2"	330	330	76.1	190	149.2	105	28.6	7	8-22
80	3"	356	356	88.9	210	168.3	127	31.8	7	8-22
100	4"	432	432	114.3	273	215.9	186	38.1	7	8-26
150	5"	508	508	139.7	330	266.7	210	44.5	7	8-29
200	6"	559	559	168.3	356	292.1	241	47.7	7	12-29
250	8"	660	660	219.1	419	249.2	302	55.6	7	12-32