上海电站阀门厂愿与您协手共同成长。

Join hands with us for mutual development!

上海电站阀门厂有限公司
SHANGHAI POWER PLANT VALVE FACTORY CO., LTD

地址/ADD：中国上海市青浦区朱枫公路1268号

No.1268, ZhufengHighway, QingpuDistrict, Shanghai, China

电话/TEL: +86-21-5922 2288

传真/FAX: +86-21-5922 2288

Http:// www.sdfvalve.com

E-mail:sdfvip@163.com

www.sdfvalve.com

INDUSTRIAL VALVES



Company Profile
企业介绍

上海电站阀门厂有限公司创立于1966年，座落于中国上海市青浦区朱枫公路1268号，企业前身为上海电站阀门厂，经过五十多年的创业、创造、创新,现SDF品牌是中国国家电力设备管理协会推荐品牌，是机械部、国家电力公司定点生产高温高压电站阀门的专业厂。

公司生产设备齐全，检测手段完善。公司新厂区占地面积约73336m2，其总投入数十亿元。引进了"奥林巴斯"公司光发射直读光谱仪、射线探伤室、超声波探伤机、DP600密封面等离子喷焊机、1800t高压大口径阀门专用压力试验机、DN4000数控立式加工机床、加工中心等重大装备，使产品加工制造能力和检测水平得到快速完善和提升，目前已形成年产80万台套锻钢阀门的生产能力。

公司在同行业中较早通过三体系认证(质量、环境、职业健康安全管理体系)，特种设备生产许可资格的A1、A2、B级(闸阀、截止阀、止回阀、调节阀、球阀、蝶阀、超低温阀门等)，API认证证书、欧盟CE认证等各类资质证书。公司拥有现代化检测手段包括:机械性能、光谱、金相、PT、UT、RT、MT等。阀门整机出厂和型式试验能力包括:阀门高低压水或气体试验、高低温阀门试验、阀门防火试验、阀门低泄露试验、阀门开关循环寿命、阀门流量测试验、阀门真空试验等,阀门试验过程已获取第三方认证证书。

公司主要生产产品有闸阀、截止阀、止回阀、球阀、蝶阀、调节阀、疏水阀、仪表阀等;主要覆盖电力、化工(煤化工/炼化/精细化工)、天然气、石化、冶金、核电等行业，阀门种类规格2000余种;阀门主体材料有碳钢、不锈钢、合金钢、低温钢及各种特材等;压力等级从1.6MPa~80.0MPa, Class150~Class4500;公称通径从DN10mm~4000mm,温度从-196C~1100C。驱动方式有手动，齿轮传动、电动、气动和液动;产品采用标准: NB/T,GB,JB, ANSI,APL,JIS, BS,DIN,GOST,NF等标准。公司充分重视国内市场销售的同时，产品也远销欧美、巴基斯坦、印度、日本、伊朗、印尼、孟加拉、菲律宾、马来西亚等国家。

SHANGHAI POWER PLANT VALVE FACTORY CO., LTD. was founded in1966, It is located in No.1268,Zhufeng Highway, Qingpu District, Zhangjiang Park, Shanghai, China.The predecessor of the company was the Shanghai Power Station Valve Factory. After more than fifty years of entrepreneurship, creation, and innovation, the SDF brand is now a brand recommended by the China National Electric Equipment Management Association and a specialized manufacturer designated by the Ministry of Machinery and the State Power Corporation for producing high-temperature and high-pressure power station valves.

The company is fully equipped with production facilities and comprehensive testing methods. The new factory covers an area of 73,336 m², with a total investment of several hundred million yuan. It has introduced major equipment, including Olympus direct-reading optical emission spectrometers, X-ray inspection rooms, ultrasonic flaw detectors, DP600 plasma spray welding machines for sealed surfaces, 1800t high-pressure large-diameter valve testing machines, DN4000 CNC vertical machining centers, and machining centers, which have rapidly improved and enhanced the company's product manufacturing capabilities and testing standards. It now has an annual production capacity of 800,000 sets of forged steel valves.

The company was among the early ones in the industry to obtain the three-system certifications (quality, environmental, and occupational health and safety management systems), as well as special equipment production licenses at levels A1, A2, and B (covering gate valves, globe valves, check valves, control valves, ball valves, butterfly valves, ultra-low temperature valves, etc.), API certification, EU CE certification, and various other qualification certificates. The company possesses modern testing methods, including mechanical performance, spectroscopy, metallography, PT, UT, RT, MT, and others. The capabilities for valve factory and type testing include high and low-pressure water or gas testing, high and low-temperature valve testing, valve fire testing, low leakage testing, valve cycle life testing, valve flow testing, vacuum testing, and more. The valve testing processes have obtained third-party certification.

The company mainly manufactures products such as gate valves, globe valves, check valves, ball valves, butterfly valves, control valves, steam traps, and instrument valves. Its products primarily serve industries including electric power, chemical (coal chemical/ refining/fine chemical), natural gas, petrochemical, metallurgy, and nuclear power. The company offers more than 2,000 types and specifications of valves. The main materials for the valves include carbon steel, stainless steel, alloy steel, low-temperature steel, and various special materials. Pressure ratings range from 1.6 MPa to 80.0 MPa, Class 150 to Class 4500; nominal diameters range from DN10mm to 4000mm, and temperatures range from -196°C to 1100°C. Actuation methods include manual, gear-driven, electric, pneumatic, and hydraulic. Products adhere to standards such as NB/T, GB, JB, ANSI, API, JIS, BS, DIN, GOST, and NF. While placing great emphasis on domestic market sales, the company's products are also exported to countries including Europe, the United States, Pakistan, India, Japan, Iran, Indonesia, Bangladesh, the Philippines, and Malaysia.

经营目标：
打造行业领先品牌
企业宗旨：
为顾客创造价值、为员工创造机会、为社会创造效益
企业精神：
敬业、团队、创新

Operational objectives:
A famous Chinese brand to build first-class enterprise
Enterprise purpose:
Create value for customers to create opportunities for employees to create benefits for the community
Entrepreneurship:
Dedicated, team, innovation


公司总部


上海西津


成建制区


全景制区









Comany Culture
• 企业文化

Further to implement the scientific outlook on deve-lopment, within the strong quality, outside the plastic image as the main line, strengthen management, promote the reform, promoting technology and talent development, forming a new management mechanism to benefit as the center, take the mark-et as the guidance enterprise gradually, the company has the full implementation of computerized infor-mation management letter from 4CP to ERP, and strive to Shanghai power plant valve factory Co., Ltd. into the benefit is good, high income, beautiful environment of the domestic first-class modern enterprise.

深入贯彻落实科学发展观，以内强素质、外塑形象为主线，强化管理，推进改革，促进技术和人才成长，逐步形成以效益为中心、以市场为导向的企业经营新机制，公司已全面实施从4CP到ERP的信息化管理，努力把上海电站阀门厂有限公司打造成效益好、收入高、环境美的国内一流现代化企业。

Innovation Technology

• 创新研发

研发与装备
不断改进产品是
我们持续发展的动力

Continuous Improvement Is Our Driving Force For Sustainable Development











Detection Center

• 检测中心






过程检验,严格把关
确保产品安全可靠性能

Process inspection,
strict control
Ensure the safety and
reliability of the product






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

To ensure high quality of our products, Our company has advanced testing facilities and perfect testing methods. We have a strict quality control team, which can control entire process for raw materials, production process, products and application.

ADVANCED MACHINING AND MANUFACTURING EQUIPMENT

先进的加工制造装备

先进的自动化生产设备，科学的工艺布局，尽显一流品质。专业人员直接参与生产，有力保证产品稳定可靠。始终如一的精品意识和源源不断的科技创新令我们始终走在前列。不管世界如何变化，瑞宝人精益求精的执着精神不变。

The advanced automatic production equipment and scientific process layout fully display first-class quality.Direct participation in production by professionals provides powerful guarantee for stability and reliability of products.The consistent concept of fine products and continuous technological innovation enable us to be always at the leading position.No matter how the world is changing,our clinging spirit to keep improving will never change.







PERFECT TESTING AND INSPECTION SYSTEM

完善的试验和检测系统





SDF 品质成就未来

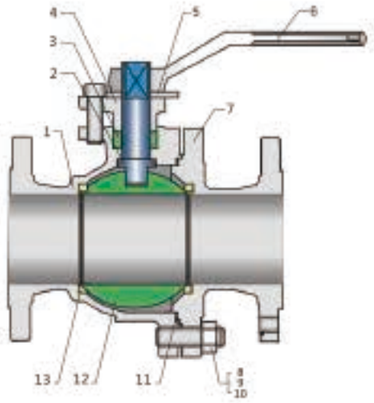
QUALITY ACCOMPLISHING THE FUTURE

法兰连接系列

FLANGE CONNECTION SERIES

Floating ball valve

浮动式球阀



working principle

The ball valve is able to make an action of turning for 90° . The plug is the ball. It has round hole or passage that passes the axial line. The ball valve is mainly used to shut off, distribute and change the medium flow direction in the pipe. It only needs to turn for 90° and very low turning torque to realize tight shut-off. The ball valve is most suitable for use as an on-off valve and shut-off valve. But in recent development, the ball valve has been designed to be used for throttling and controlling flow, such as V type ball valves.

Main features

It is featured by compact structure, reliable sealing, simple structure and convenient maintenance. The sealing face and ball face are normally at the closing status, so it will not be easily eroded by media. It is easy to operate and repair. It is suitable for common working media such as water, solvent, acid, natural gas, etc. It is also applicable to media under severe service conditions such as oxygen, hydrogen peroxide, methane, ethylene, etc. It has been widely applied in many industries. The ball valve body may be integral or combined.

Advantages of ball valves

1. Low fluid resistance. The full bore ball valve basically has no fluid resistance.
2. Simple structure, low volume, light weight.
3. Reliable shut-off. It has two sealing faces. The materials for sealing faces of the ball valve are various types of plastics which have good sealing performance and can realize complete sealing. They have also been widely applied in vacuum systems.
4. Convenient operation, fast opening and closing. Just turn for 90° from full opening to full closing. It is convenient to make remote control.
5. Convenient maintenance. The ball valve structure is simple. The seat ring is generally moveable, and it is convenient to disassemble and replace it.
6. During full opening or full closing, the sealing faces of ball and seat are isolated from media. When media pass, no erosion of the ball valve sealing face will be caused.
7. Wide application range. Nominal diameter ranges from several millimeters to several meters. The valves can be applied under high vacuum and high pressure.
8. As the ball valve has wiping performance during the opening and closing process, it can be used in media that contain suspended solid particles.

主要零部件材料 Materials for main parts

序号 No.	名称 Name	材料 Material
1	阀 体 Body	WCB/CF8/CF8M
2	阀 杆 Stem	2Cr13/304/316
3	填 料 Packing	PTFE/PPL
4	压 盖 Gland	WCB/CF8/CF8M
5	定位片 Positioning piece	35/304
6	手 柄 Handle	WCB/CF8
7	阀 盖 Bonnet	WCB/CF8/CF8M
8	螺 栓 Bolt	35/304
9	螺 母 Nut	35/304
10	弹 垫 Spring washer	45/304
11	密封垫 Sealing gasket	PTFE/PPL
12	球 体 Ball	420/304/316
13	阀 座 Seat	PTFE/PPL

工作原理

球阀它具有旋转90度的动作，旋塞体为球体。有圆形通孔或通道通过其轴线。球阀在管路中主要用来做切断、分配和改变介质的流动方向。它只需要用旋转90度的操作和很小的转动力矩就能关闭严密。球阀最适宜做开关、切断阀使用。但近来的发展已将球阀设计成使它具有节流和控制流量之用，如V型球阀。

主要特点

是本身结构紧凑，密封可靠，结构简单，维修方便。密封面与球面常在闭合状态，不易被介质冲蚀。易于操作和维修，适用于水、溶剂、酸和天然气等一般工作介质，而且还适用于工作条件恶劣的介质，如氧气、过氧化氢、甲烷和乙烯等，在各行业得到广泛的应用。球阀阀体可以是整体的。也可以是组合式的。

球阀优点

1. 流体阻力小，全通径的球阀基本没有流阻。
2. 结构简单，体积小，重量轻。
3. 紧密可靠。它有两个密封面，而且目前球阀的密封圈材料广泛使用各种塑料，密封性好，能实现完全密封。在真空系统中也已广泛使用。
4. 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。
5. 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。
6. 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，不会引起球阀密封面的侵蚀。
7. 适用范围广，通径从小到几毫米，大到几米，从高真空至高压力都可应用。
8. 由于球阀在启闭过程中有擦拭性，所以可用于带悬浮固体颗粒的介质中。

Floating ball valve

浮动式球阀

执行标准

1. 设计和制造：
   GB/T 12237-2007；API 608；DIN3357；JIS B2071
2. 检验和试压：
   GB/T 13927-1992；API 598；DIN3230；JIS B2003
3. 法兰连接：
   JB/T 79.1-4-1994；ASME B 16.5；DIN2542-2546；JIS B2212-2214
4. 结构长度：
   GB/T 12221-2005；ASME B 16.10；DIN3202；JIS B2002

Executed standards

1. Design and manufacturing:
   GB/T 12237-2007；API 608；DIN3357；JIS B2071
2. Inspection and pressure testing:
   GB/T 13927-1992；API 598；DIN3230；JIS B2003
3. Flange connection:
   JB/T 79.1-4-1994；ASME B 16.5；DIN2542-2546；JIS B2212-2214
4. Face-to-face dimensions:
   GB/T 12221-2005；ASME B 16.10；DIN3202；JIS B2002

性能规范 Performance specification

公称压力(PN) Nominal pressure	常温最大工作压力 Maximum working pressure at normal temperature	壳体试验压力 Shell test pressure	气密封试验压力 Gas seal test pressure	高压密封试验压力 High pressure seal test pressure
1.6	1.6	2.4	0.6	1.76
2.5	2.5	3.75	0.6	2.75
4.0	4.0	6.0	0.6	4.4
6.4	6.4	9.6	0.6	7.04
Class150	2.0	3.0	0.6	2.2
Class300	5.0	7.5	0.6	5.5

适用范围 Application range

壳体材料 Shell material	阀座材料 Seat material	适用温度 Applicable temperature	适用介质 Applicable media
碳钢C型 Carbon steel C type	聚四氟乙烯PTFE	-29～150°C	水.蒸汽.油品等 Water, steam, oil, etc.
	对位聚苯PPL	-29～280°C	
铬镍钛锰钢型 Cr-Ni-Ti-Mn steel type	聚四氟乙烯PTFE	-40～150°C	水.蒸汽.油品等 Water, steam, oil, etc.
	对位聚苯PPL	-40～280°C	
铬镍钛钢P型 Cr-Ni-Ti steel P type	聚四氟乙烯PTFE	-40～150°C	硝酸类腐蚀性介质 Nitric acid corrosive media
	对位聚苯PPL	-40～280°C	
铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type	聚四氟乙烯PTFE	-40～150°C	醋酸类腐蚀性介质 Acetic acid corrosive media
	对位聚苯PPL	-40～280°C	

主要零件材料 Materials for main parts

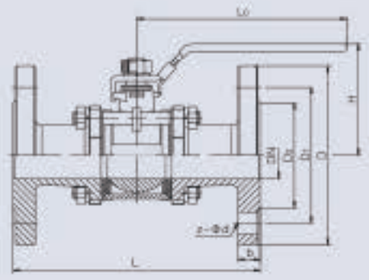
型式 Type / 部件 Part	标准类型 Standard type	碳钢C型 Carbon steel C type	铬镍钛锰钢型 Cr-Ni-Ti-Mn steel type	铬镍钛钢P型 Cr-Ni-Ti steel P type	铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type
阀体、阀盖 Body, bonnet	GB	WCB	1Cr17Mn6Ni5N	ZG0Cr18Ni9	ZG0Cr17Ni12Mo2
	ASME	WCB	201	CF8	CF8M
球体 Ball	GB	2Cr13	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr17Ni12Mo2
	ASME	420	201	304	316
阀杆 Stem	GB	2Cr13	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr17Ni12Mo2
	ASME	420	201	304	316
阀座 Seat	GB	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL
	ASME	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL
填料 Packing	GB	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨
	ASME	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨
螺 栓 Bolt	GB	35	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr18Ni9
	ASME	A193 B7	201	A320-B8	A320-B8
螺 母 Nut	GB	45	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr18Ni9
	ASME	A194 2H	201	A194-8	A194-8

Three-piece flanged ball valve

三片式法兰球阀

TQ41FS-16/25





公称压力Nominal pressure: PN1.6MPa

Size/DN	L		D	D_1	D_2	b	Z-Φd	L_0	H
	1 series	2 series							
15	–	130	95	65	45	15	4-Φ14	135	64
20	–	150	105	75	55	15	4-Φ14	145	70
25	–	160	115	85	65	16	4-Φ14	160	74
32	165	180	135	100	76	16	4-Φ18	175	92
40	180	200	145	110	85	18	4-Φ18	200	100
50	200	230	160	125	100	19	4-Φ18	215	110
65	220	290	180	145	120	21	4-Φ18	250	132
80	250	310	195	160	135	22	8-Φ18	270	143
100	280	350	215	180	155	23	8-Φ18	300	170

公称压力Nominal pressure: PN2.5MPa

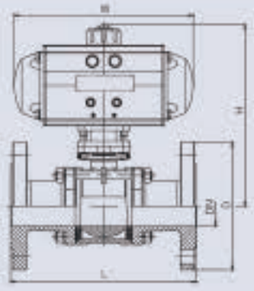
Size/DN	L		D	D_1	D_2	b	Z-Φd	L_0	H
	1 series	2 series							
15	–	130	95	65	45	15	4-Φ14	135	64
20	–	150	105	75	55	15	4-Φ14	145	70
25	–	160	115	85	65	16	4-Φ14	160	74
32	165	180	135	100	76	16	4-Φ18	175	92
40	180	200	145	110	85	18	4-Φ18	200	100
50	200	230	160	125	100	19	4-Φ18	215	110
65	220	290	180	145	120	21	8-Φ18	250	132
80	250	310	195	160	135	22	8-Φ18	270	143
100	280	350	230	190	160	23	8-Φ23	300	170

Actuator ball valve

执行器球阀



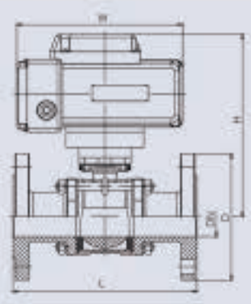
三片式气动球阀
Three-piece pneumatic ball valve



TQ6s41FG-25

Size/DN	L		D	W	H
	1 series	2 series			
15	–	130	95	144	150
20	–	150	105	144	153
25	–	160	115	159	180
32	165	180	135	221	199
40	180	200	145	248	227
50	200	230	160	271	250
65	220	290	180	315	300
80	250	310	195	345	323
100	280	350	230	409	368

三片式电动球阀
Three-piece electric ball valve



TQ9s41FG-25

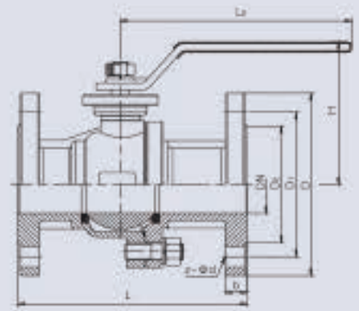
Size/DN	L		D	W	H
	1 series	2 series			
15	–	130	95	162	166
20	–	150	105	162	170
25	–	160	115	162	179
32	165	180	135	162	184
40	180	200	145	207	216
50	200	230	160	207	228
65	220	290	180	258	289
80	250	310	195	258	300
100	280	350	230	258	325

High mounting pad flanged ball valve

高平台法兰球阀

TQ41FE-16/25





公称压力Nominal pressure: PN1.6MPa

Size/DN	L	D	D_1	D_2	b	Z-φd	L_0	H
15	130	95	65	45	15	4-φ14	135	75
20	140	105	75	55	15	4-φ14	135	79
25	150	115	85	65	16	4-φ14	160	90
32	165	135	100	76	16	4-φ18	160	95
40	180	145	110	85	18	4-φ18	200	115
50	200	160	125	100	19	4-φ18	200	123
65	220	180	145	120	21	4-φ18	280	155
80	250	195	160	135	22	8-φ18	280	168
100	280	215	180	155	23	8-φ18	380	200

公称压力Nominal pressure: PN2.5MPa

Size/DN	L	D	D_1	D_2	b	Z-φd	L_0	H
15	130	95	65	45	15	4-φ14	135	75
20	140	105	75	55	15	4-φ14	135	79
25	150	115	85	65	16	4-φ14	160	90
32	165	135	100	76	16	4-φ18	160	95
40	180	145	110	85	18	4-φ18	200	115
50	200	160	125	100	19	4-φ18	200	123
65	220	180	145	120	21	8-φ18	280	155
80	250	195	160	135	22	8-φ18	280	168
100	280	230	190	160	23	8-φ23	350	200

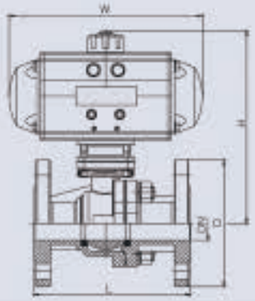
Actuator ball valve

执行器球阀





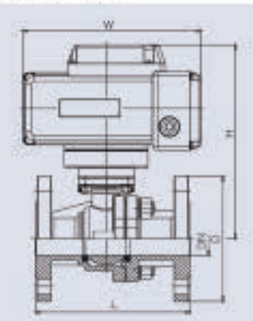
气动法兰球阀
Pneumatic flanged ball valve



TQ6s41FD-25

Size/DN	L	D	W	H
15	130	95	144	155
20	140	105	144	160
25	150	115	159	185
32	165	135	221	206
40	180	145	248	236
50	200	160	271	253
65	220	180	315	310
80	250	195	345	335
100	280	230	409	373

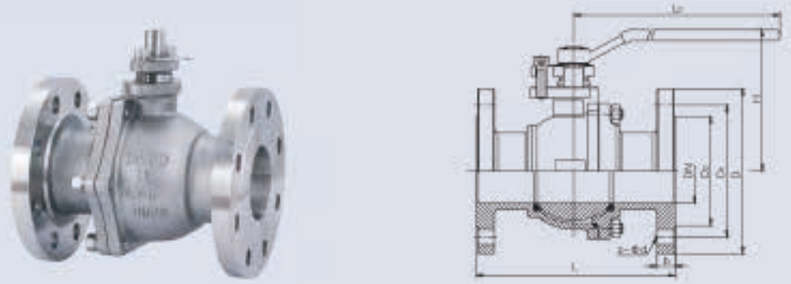
电动法兰球阀
Electric flanged ball valve



TQ9s41FD-25

Size/DN	L	D	W	H
15	130	95	162	172
20	140	105	162	177
25	150	115	162	185
32	165	135	162	190
40	180	145	207	225
50	200	160	207	231
65	220	180	258	299
80	250	195	258	312
100	280	230	258	335

TQ41FV-16/25



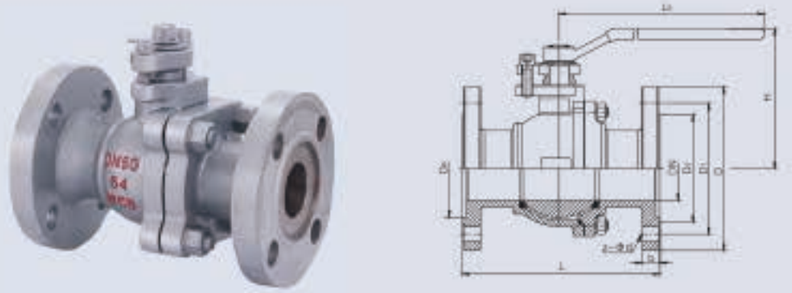
公称压力Nominal pressure: PN1.6MPa

Size/DN	L	D	D_1	D_2	b	Z-Φd	L_0	H
15	130	95	65	45	14	4-Φ14	130	62
20	140	105	75	55	14	4-Φ14	130	67
25	150	115	85	65	14	4-Φ14	160	75
32	165	135	100	76	16	4-Φ18	160	85
40	180	145	110	85	16	4-Φ18	225	97
50	200	160	125	100	16	4-Φ18	225	105
65	220	180	145	120	18	4-Φ18	350	145
80	250	195	160	135	20	8-Φ18	350	153
100	280	215	180	155	20	8-Φ18	420	180
125	320	245	210	185	22	8-Φ18	580	247
150	360	280	240	210	24	8-Φ23	750	275
200	400	335	295	265	26	12-Φ23	870	340

公称压力Nominal pressure: PN2.5MPa

Size/DN	L	D	D_1	D_2	b	Z-Φd	L_0	H
15	130	95	65	45	16	4-Φ14	130	62
20	140	105	75	55	16	4-Φ14	130	67
25	150	115	85	65	16	4-Φ14	160	75
32	165	135	100	76	18	4-Φ18	160	85
40	180	145	110	85	18	4-Φ18	225	97
50	200	160	125	100	20	4-Φ18	225	105
65	220	180	145	120	22	8-Φ18	350	145
80	250	195	160	135	22	8-Φ18	350	153
100	280	230	190	160	24	8-Φ23	420	180
125	320	270	220	188	28	8-Φ25	580	247
150	360	300	250	218	30	8-Φ25	750	275
200	400	360	310	278	34	12-Φ25	870	340

TQ41FV-40/64



公称压力Nominal pressure: PN4.0MPa

Size/DN	L	D	D_1	D_2	D_0	b	Z-Φd	L_0	H
15	140	95	65	45	40	16	4-Φ14	130	62
20	152	105	75	55	51	16	4-Φ14	130	67
25	165	115	85	65	58	16	4-Φ14	160	75
32	178	135	100	76	66	18	4-Φ18	160	85
40	190	145	110	85	76	18	4-Φ18	225	97
50	216	160	125	100	88	20	4-Φ18	225	105
65	241	180	145	120	110	22	8-Φ18	350	145
80	283	195	160	135	121	22	8-Φ18	350	153
100	305	230	190	160	150	24	8-Φ23	420	180
125	381	270	220	188	176	28	8-Φ25	580	247
150	403	300	250	218	204	30	8-Φ25	750	275
200	502	375	320	282	260	38	12-Φ30	870	340

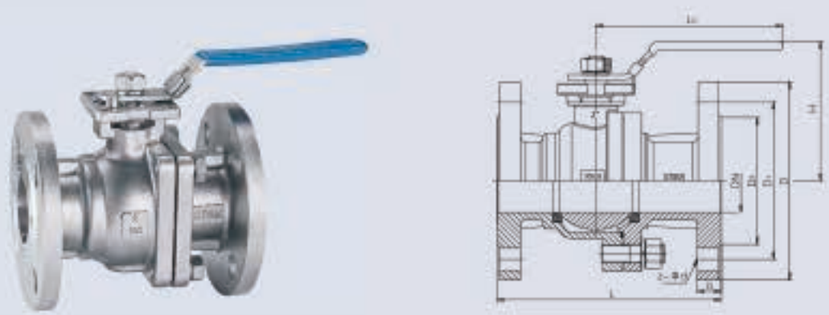
公称压力Nominal pressure: PN6.4MPa

Size/DN	L	D	D_1	D_2	D_0	b	Z-Φd	L_0	H
15	165	105	75	55	40	18	4-Φ14	130	62
20	190	125	90	68	51	20	4-Φ18	130	67
25	216	135	100	78	58	22	4-Φ18	160	75
32	229	150	110	82	66	24	4-Φ18	160	85
40	241	165	125	95	76	24	4-Φ23	225	97
50	292	175	135	105	88	26	4-Φ23	225	105
65	330	200	160	130	110	28	8-Φ23	350	145
80	356	210	170	140	121	30	8-Φ23	400	153
100	432	250	200	168	150	32	8-Φ25	560	180
125	508	295	240	202	176	36	8-Φ30	800	247
150	559	340	280	240	204	38	8-Φ34	1200	275

Flanged ball valve(American standard)

法兰球阀(美标)

TQ41FB-150/300LB



公称压力Nominal pressure: 150LB

Size		L	D	D_1	D_2	b	Z-ød
in	DN						
1/2	15	108	90	60.3	34.9	10	4-Ø16
3/4	20	117	100	69.9	42.9	11	4-Ø16
1	25	127	110	79.4	50.8	12	4-Ø16
1¼	32	140	115	88.9	63.5	13	4-Ø16
1½	40	165	125	98.4	73	15	4-Ø16
2	50	178	152	120.7	92.1	16	4-Ø19
2½	65	190	178	139.7	104.8	18	4-Ø19
3	80	203	190	152.4	127	19	4-Ø19
4	100	229	229	190.5	157.2	24	8-Ø19
5	125	356	254	215.9	185.7	24	8-Ø22
6	150	394	279	241.3	215.9	26	8-Ø22
8	200	457	343	298.5	269.9	29	8-Ø22

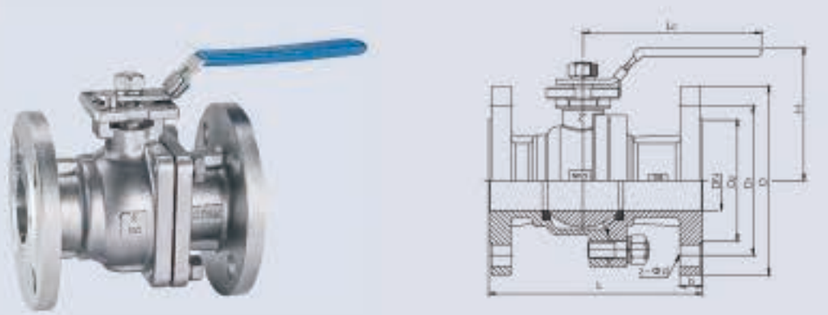
公称压力Nominal pressure: 300LB

Size		L	D	D_1	D_2	b	Z-ød
in	DN						
1/2	15	140	95	66.7	34.9	15	4-Ø16
3/4	20	152	117	82.6	42.9	16	4-Ø19
1	25	165	124	88.9	50.8	18	4-Ø19
1¼	32	178	133	98.4	63.5	19	4-Ø19
1½	40	190	156	114.3	73	21	4-Ø22
2	50	216	165	127	92.1	23	8-Ø19
2½	65	241	190	149.2	104.8	26	8-Ø22
3	80	283	210	168.3	127	29	8-Ø22
4	100	305	254	200	157.2	32	8-Ø22
5	125	381	279	235	185.7	35	8-Ø22
6	150	403	318	269.9	215.9	37	12-Ø22
8	200	502	381	330.2	269.9	42	12-Ø25

Flanged ball valve(German standard)

法兰球阀(德标)

TQ41FN-16/25



公称压力Nominal pressure: PN1.6MPa

Size/DN	L	D	D_1	D_2	b	f	Z-ød
15	115	95	65	45	16	2	4-Ø14
20	120	105	75	58	18	2	4-Ø14
25	125	115	85	68	18	2	4-Ø14
32	130	140	100	78	18	2	4-Ø18
40	140	150	110	88	18	3	4-Ø18
50	150	165	125	102	20	3	4-Ø18
65	170	185	145	122	20	3	4-Ø18
80	180	200	160	138	20	3	8-Ø18
100	190	220	180	158	20	3	8-Ø18
125	325	250	210	188	22	3	8-Ø18
150	350	285	240	212	22	3	8-Ø22
200	400	340	295	268	24	3	12-Ø22

公称压力Nominal pressure: PN2.5MPa

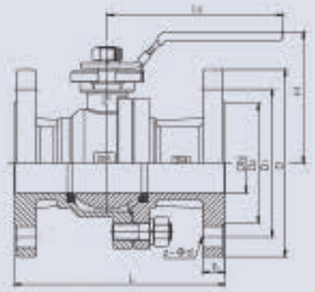
Size/DN	L	D	D_1	D_2	b	f	Z-ød
15	115	95	65	45	16	2	4-Ø14
20	120	105	75	58	18	2	4-Ø14
25	125	115	85	68	18	2	4-Ø14
32	130	140	100	78	18	2	4-Ø18
40	140	150	110	88	18	3	4-Ø18
50	150	165	125	102	20	3	4-Ø18
65	220	185	145	122	22	3	8-Ø18
80	250	200	160	138	24	3	8-Ø18
100	280	235	190	158	24	3	8-Ø22
125	320	270	220	188	26	3	8-Ø26
150	350	300	250	218	28	3	8-Ø26
200	400	360	310	278	30	3	12-Ø26

Flanged ball valve(Japanese standard)

法兰球阀(日标)

TQ41FK-10/20K





公称压力Nominal pressure: 10K

Size		L	D	D_1	D_2	b	Z-φd	L_0	H
in	DN								
1/2	15	108	95	70	52	12	4-φ15	125	78
3/4	20	117	100	75	58	14	4-φ15	125	83
1	25	127	125	90	70	14	4-φ19	150	95
1¼	32	140	135	100	80	16	4-φ19	150	100
1½	40	165	140	105	85	16	4-φ19	180	125
2	50	178	155	120	100	16	4-φ19	200	134
2½	65	190	175	140	120	18	4-φ19	280	150
3	80	203	185	150	130	18	8-φ19	280	160
4	100	229	210	175	155	18	8-φ19	350	195

公称压力Nominal pressure: 20K

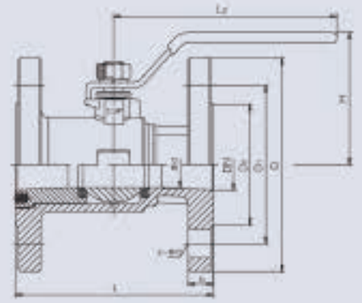
Size		L	D	D_1	D_2	b	Z-φd	L_0	H
in	DN								
1/2	15	140	95	70	52	14	4-φ15	125	75
3/4	20	152	100	75	58	16	4-φ15	125	80
1	25	165	125	90	70	16	4-φ19	150	95
1¼	32	178	135	100	80	18	4-φ19	150	100
1½	40	190	140	105	85	18	4-φ19	180	125
2	50	216	155	120	100	18	8-φ19	200	134
2½	65	241	175	140	120	20	8-φ19	280	150
3	80	282	200	160	135	22	8-φ23	280	160
4	100	305	225	185	160	24	8-φ23	350	195

One-segment flanged ball valve

一段式法兰球阀

TQ41FY-16/25





公称压力Nominal pressure: PN1.6MPa

Size/DN	L	D	D_1	D_2	d	b	Z-φd	L_0	H
15	95	95	65	45	15	14	4-φ14	120	58
20	105	105	75	55	20	14	4-φ14	130	68
25	110	115	85	65	25	15	4-φ14	145	73
32	125	135	100	76	29	16	4-φ18	160	84
40	135	145	110	85	32	18	4-φ18	175	88
50	155	160	125	100	38	18	4-φ18	190	102
65	170	180	145	120	50	20	4-φ18	210	112
80	200	195	160	135	65	21	8-φ18	230	127
100	230	215	180	155	80	22	8-φ18	260	138

公称压力Nominal pressure: PN2.5MPa

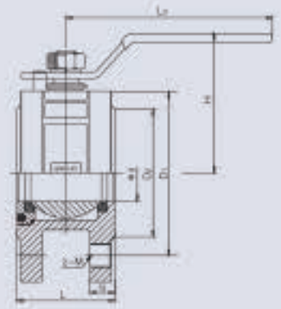
Size/DN	L	D	D_1	D_2	d	b	Z-φd	L_0	H
15	95	95	65	45	15	14	4-φ14	120	58
20	105	105	75	55	20	14	4-φ14	130	68
25	110	115	85	65	25	15	4-φ14	145	73
32	125	135	100	76	29	16	4-φ18	160	84
40	135	145	110	85	32	18	4-φ18	175	88
50	155	160	125	100	38	18	4-φ18	190	102
65	170	180	145	120	50	20	8-φ18	210	112
80	200	195	160	135	65	21	8-φ18	230	127
100	230	230	190	160	80	22	8-φ23	260	138

Wafer thin ball valve

对夹式薄型球阀

TQ71F $^{A}_{B}$ -16/25





公称压力Nominal pressure: PN1.6MPa

Size/DN	L	D	D_1	D_2	d	b	Z-d		L_3	H
							Z-ø(A)	Z-M(B)		
15	35	95	65	45	15	11	4-ø14	4-M12	110	60
20	42	105	75	55	20	11	4-ø14	4-M12	125	65
25	48	115	85	65	25	14	4-ø14	4-M12	145	75
32	55	135	100	76	32	16	4-ø18	4-M16	155	82
40	65	145	110	85	38	17	4-ø18	4-M16	170	93
50	75	160	125	100	49	17	4-ø18	4-M16	185	100
65	95	180	145	120	64	20	4-ø18	4-M16	220	120
80	118	195	160	135	76	20	8-ø18	8-M16	240	140
100	140	215	180	155	88	22	8-ø18	8-M16	280	150

公称压力Nominal pressure: PN2.5MPa

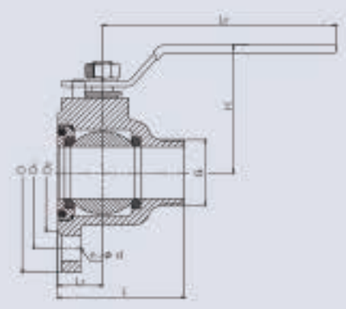
Size/DN	L	D	D_1	D_2	d	b	Z-d		L_3	H
							Z-ø(A)	Z-M(B)		
15	35	95	65	45	15	11	4-ø14	4-M12	110	60
20	42	105	75	55	20	11	4-ø14	4-M12	125	65
25	48	115	85	65	25	14	4-ø14	4-M12	145	75
32	55	135	100	76	32	16	4-ø18	4-M16	155	82
40	65	145	110	85	38	17	4-ø18	4-M16	170	93
50	75	160	125	100	49	17	4-ø18	4-M16	185	100
65	95	180	145	120	64	20	8-ø18	8-M16	220	120
80	118	195	160	135	76	20	8-ø18	8-M16	240	140
100	140	230	190	160	88	22	8-ø23	8-M20	280	150

Discharging ball valve

放料球阀

TQ3c1F-16

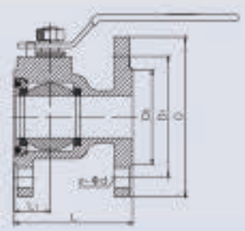




公称压力Nominal pressure: PN1.6MPa

Size/DN	G	L	L_1	D	D_1	D_2	Z-ød	L_2	H
25	1	74	24	115	85	65	4-ø14	145	75
32	1 ¼"	88	27	135	100	76	4-ø18	155	82
40	1 ½"	93	32	145	110	85	4-ø18	170	93
50	2"	116	37	160	125	100	4-ø18	185	100
65	2 ½"	126	47	180	145	120	8-ø18	220	120
80	3	162	59	195	160	135	8-ø18	240	140
100	4	177	70	215	180	155	8-ø22	280	150

TQ4c1F-16



公称压力Nominal pressure: PN1.6MPa

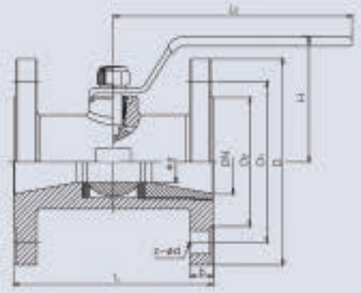
Size/DN	L	L_1	D	D_1	D_2	Z-ød
25	74	24	115	85	65	4-ø14
32	88	27	135	100	76	4-ø18
40	93	32	145	110	85	4-ø18
50	116	37	160	125	100	4-ø18
65	126	47	180	145	120	8-ø18
80	162	59	195	160	135	8-ø18
100	177	70	215	180	155	8-ø18

Guangdong style flanged ball valve

广式带法兰球阀

TQ41F-16/25





公称压力Nominal pressure: PN1.6MPa

Size/DN	L	D	D_1	D_2	d	b	Z-Φd	L_0	H
15	95	95	65	45	10.5	14	4-Φ14	120	58
20	105	105	75	55	13	14	4-Φ14	130	66
25	110	115	85	65	17	15	4-Φ14	130	70
32	125	135	100	76	22	16	4-Φ18	150	86
40	135	145	110	85	25	17	4-Φ18	165	93
50	155	160	125	100	32	18	4-Φ18	180	102
65	170	180	145	120	40	20	4-Φ18	200	117
80	200	195	160	135	50	21	8-Φ18	230	125
100	230	215	180	155	65	20	8-Φ18	255	140

公称压力Nominal pressure: PN2.5MPa

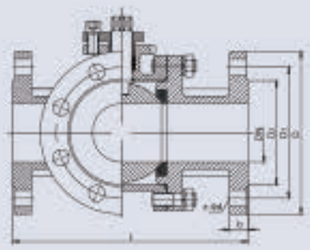
Size/DN	L	D	D_1	D_2	d	b	Z-Φd	L_0	H
15	95	95	65	45	10.5	14	4-Φ14	120	58
20	105	105	75	55	13	14	4-Φ14	130	66
25	110	115	85	65	17	15	4-Φ14	130	70
32	125	135	100	76	22	16	4-Φ18	150	86
40	135	145	110	85	25	17	4-Φ18	165	93
50	155	160	125	100	32	18	4-Φ18	180	102
65	170	180	145	120	40	20	8-Φ18	200	117
80	200	195	160	135	50	21	8-Φ18	230	125
100	230	230	190	160	65	22	8-Φ23	255	140

Three-way flanged ball valve

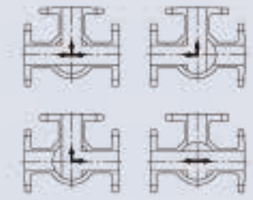
三通法兰球阀

TQ $^{44FL}_{45FT}$ -16/25





T型三通通口位置图
T type three-way port position diagram



L型三通通口位置图
L type three-way port position diagram



公称压力Nominal pressure: PN1.6MPa

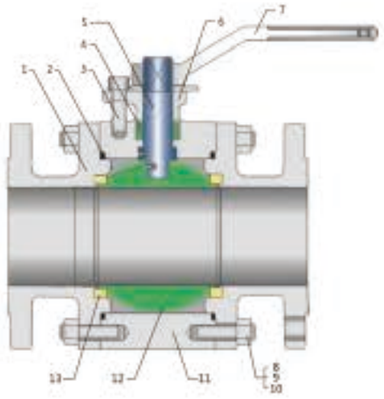
Size/DN	L	D	D_1	D_2	d	b	Z-Φd
15	150	95	65	45	13	14	4-Φ14
20	160	105	75	55	18	14	4-Φ14
25	180	115	85	65	23	14	4-Φ14
32	200	135	100	76	28	16	4-Φ18
40	220	145	110	85	38	16	4-Φ18
50	240	160	125	100	48	16	4-Φ18
65	260	180	145	120	60	18	4-Φ18
80	280	195	160	135	75	20	8-Φ18
100	320	215	180	155	95	20	8-Φ18
125	380	245	210	185	120	22	8-Φ18
150	440	280	240	210	145	24	8-Φ23
200	550	335	295	265	190	26	12-Φ23

公称压力Nominal pressure: PN2.5MPa

Size/DN	L	D	D_1	D_2	d	b	Z-Φd
15	150	95	65	45	13	16	4-Φ14
20	160	105	75	55	18	16	4-Φ14
25	180	115	85	65	23	16	4-Φ14
32	200	135	100	76	28	18	4-Φ18
40	220	145	110	85	38	18	4-Φ18
50	240	160	125	100	48	20	4-Φ18
65	260	180	145	120	60	22	8-Φ18
80	280	195	160	135	75	22	8-Φ18
100	320	230	190	165	95	24	8-Φ23
125	380	270	220	185	120	28	8-Φ25
150	440	300	250	210	145	30	8-Φ25
200	550	360	310	278	190	34	12-Φ25

Forged steel ball valve

锻钢球阀



铸钢是用以浇注铸件的钢。铸造合金的一种。铸钢分为铸造碳钢、铸造低合金钢和铸造特种钢3类。铸钢是指采用铸造方法而生产出来的一种钢铸件。铸钢主要用于制造一些形状复杂、难于进行锻造或切削加工成形而又要求较高的强度和韧性的零件。

锻钢是指采用锻造方法而生产出来的各种锻材和锻件。锻钢件的质量比铸钢件高，能承受大的冲击力作用，塑性、韧性和其他方面的力学性能也都比铸钢件高，所以凡是一些重要的机器零件都应当采用锻钢件。

铸造是液态成型，而锻造是塑性变形过程，锻造成型工件可以改善组织内部结构，机械性能好，晶粒均匀，重要吃力工件必须锻造，铸造会造成组织偏析，组织缺陷，当然铸造有他的好处，成型复杂工件锻造不易开槽，已采取铸造。

锻钢球阀造价比铸钢球阀要高，外观比铸钢的漂亮，锻钢的材质可以做到420公斤压力，而铸钢的目前只做到100公斤，内行人士一眼就可以看出来，锻钢球阀我们专业生产，质量保证。

锻压可以改变金属组织，提高金属性能。铸锭经过热锻压后，原来的铸态疏松、孔隙、微裂等被压实或焊合；原来的枝状结晶被打碎，使晶粒变细；同时改变原来的碳化物偏析和不均匀分布，使组织均匀，从而获得内部密实、均匀、细微、综合性能好、使用可靠的锻件。锻件经热锻变形后，金属是纤维组织；经冷锻变形后，金属晶体呈有序性。

结构特点及用途

1.抗硫化应力腐化:阀门接触介质的材料都是按美国腐蚀工程师协会NACE01-75的标准进行选择，且按标准进行表面镀镍，能满足硫化环境工况的要求;
2.用聚合物或金属材料做密封材料，在高温、高压工况具有优良的密封性能;
3.设置填料箱，防止阀门内腔压力异常升高而使阀杆飞出，增置倒密封结构，能确保填料可靠密封;
4.广泛适用于化工、炼油、油气、天然气、钢铁等介质管路。

Cast steel is steel used to pour castings. It is a kind of cast alloy. Cast steel includes three categories such as cast carbon steel, cast low alloy steel and cast special steel. Cast steel refers to steel casting produced by adopting the casting method. Cast steel is mainly used for manufacturing some parts with complex forms that are hard to be subject to forging or cutting and forming, and have relatively high requirements for strength and ductility.

Forged steel refers to various types of forgings produced by adopting the forging method. The quality of forged steel is higher than that of cast steel, and forged steel can endure high impact. Its ductility, tenacity and other mechanical properties are superior to those of cast steel. Therefore, some important machine parts are made of forged steel.

Casting is a liquid forming process, but forging is a plastic deformation process. Forged parts can improve internal structure of organization, featured by good mechanical properties and even granularity. The important force bearing parts must be forged, but segregation and defects of organization may be caused if they are cast. Certainly cast parts also have advantages. The parts with complex forming shall be cast, as it is difficult to make molds if they are forged.

The price of forged steel ball valves is higher than that of cast steel ball valves. Their appearance is more beautiful than that of cast steel ball valves. The weight of forged steel ball valves can be up to 420kg, but the weight of cast steel ball valves can be up to 100kg. The readers will judge at first sight that we specialize in producing forged steel ball valves, and the quality is guaranteed.

Forging and pressing can change metal organization and enhance metal performance. After ingot castings are subject to hot forging and pressing, the original looseness, hole and small crack are stemmed or welded. The original dendritic crystallization is broken and the grains become finer. Meanwhile, the original carbide segregation and uneven distribution are changed, so that the organization is even and the dense and even forgings with good comprehensive performance and reliable use are achieved. After the forgings are subject to hot forging deformation, the metal is of fiber organization. After cold forging deformation, the metal crystals are in good order.

Structural features and purpose

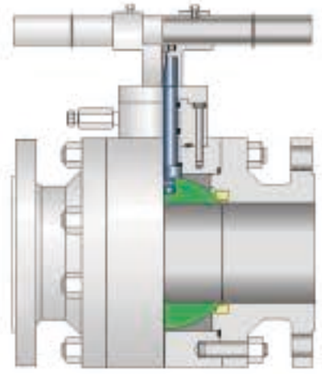
1. Resistant to sulfide stress cracking. The materials in the valve that contact media are selected according to NACE01-75, and surface nickel plating is carried out according to the standards to meet the requirements under sulfide service conditions.
2. Polymers or metal materials are adopted as sealing materials, which have excellent sealing performance under high temperature and high pressure service conditions.
3. It is provided with packing box to prevent the stem from being blown out due to abnormal pressure rise in the valve cavity. It is additionally mounted with the back sealing structure to ensure reliable sealing of packing.
4. It is widely applied in media pipelines in such industries as chemical industry, oil refining, oil-gas, natural gas, iron and steel, etc.

主要零部件材料 Materials for main parts

序号 No.	名称 Name	材料 Material
1	阀 盖 Bonnet	WCB/CF8/CF8M
2	密封垫 Sealing gasket	PTFE/PPL
3	螺 钉 Screw	35/304
4	填 料 Packing	PTFE/PPL
5	阀 杆 Stem	2Cr13/304/316
6	压 盖 Gland	WCB/CF8/CF8M
7	手 柄 Handle	45/304
8	螺 栓 Bolt	35/304
9	弹 垫 Spring gasket	45/304
10	螺 母 Nut	45/304
11	阀 体 Body	WCB/CF8/CF8M
12	球 体 Ball	420/304/316
13	阀 座 Seat	PTFE/PPL

Forged steel ball valve

锻钢球阀





执行标准

1、设计和制造: GB/T 12237-1989；API 608
2、检验和试压: GB/T 13927-1992；API 598
3、法兰连接: JB/T 79.1-4-1994；ASME/ANSI B16.5
4、结构长度: GB/T 12221-1989；GB/T 15188.1-1994；ASME/ANSI B16.10

Executed standards

1、Design and manufacturing: GB/T 12237-1989；API 608
2、Inspection and pressure testing: GB/T 13927-1992；API 598
3、Flange connection: JB/T 79.1-4-1994；ASME/ANSI B16.5
4、Face-to-face dimensions: GB/T 12221-1989；GB/T 15188.1-1994；ASME/ANSI B16.10

性能规范 Performance specification

公称压力(PN) Nominal pressure	常温最大工作压力 Maximum working pressure at normal temperature	壳体试验压力 Shell test pressure	气密封试验压力 Gas seal test pressure	高压密封试验压力 High pressure seal test pressure
1.6	1.6	2.4	0.6	1.76
2.5	2.5	3.75	0.6	2.75
4.0	4.0	6.0	0.6	4.4
6.4	6.4	9.6	0.6	7.04
10.0	10.0	15.0	0.6	11.0
16.0	16.0	24.0	0.6	17.6
Class150	2.0	3.0	0.6	2.2
Class300	5.0	7.5	0.6	5.5
Class600	10.0	15.0	0.6	11.0
Class900	15.0	22.5	0.6	16.5

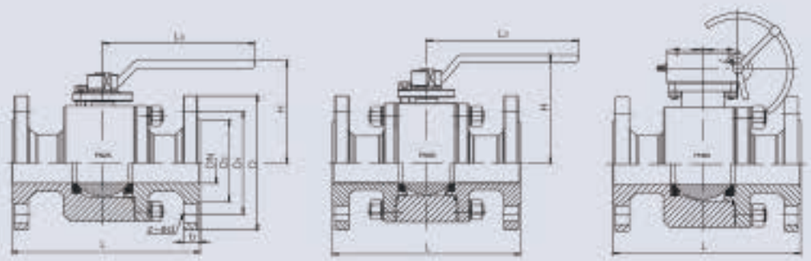
适用范围 Application range

壳体材料 Shell material	阀座材料 Seat material	适用温度 Applicable temperature	适用介质 Applicable media
碳钢C型 Carbon steel C type	聚四氟乙烯PTFE	-29～150℃	水,蒸汽,油品等 Water, steam, oil, etc
	对位聚苯PPL	-29～280℃	
铬镍钛钢P型 Cr-Ni-Ti steel P type	聚四氟乙烯PTFE	-40～150℃	弱酸类腐蚀性介质 Nitric acid corrosive media
	对位聚苯PPL	-40～280℃	
铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type	聚四氟乙烯PTFE	-40～150℃	醋酸类腐蚀性介质 Acetic acid corrosive media
	对位聚苯PPL	-40～280℃	

主要零件材料 Materials for main parts

型式 Type / 部件 Part	标准类型 Standard type	碳钢C型 Carbon steel C type	铬镍钛钢P型 Cr-Ni-Ti steel P type	铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type
阀体、阀盖 Body, bonnet	GB	25	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti
	ASME	1025	304	316
球体 Ball	GB	2Cr13	1Cr18Ni9Ti/表面特殊处理	0Cr18Ni12Mo2Ti/表面特殊处理
	ASME	420	304+HF	316+HF
阀杆 Stem	GB	2Cr13	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti
	ASME	420	304	316
阀座 Seat	GB	PTFE/PPL	PTFE/PPL	PTFE/PPL
	ASME	PTFE/PPL	PTFE/PPL	PTFE/PPL
填料 Packing	GB	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨
	ASME	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨
螺 栓 Bolt	GB	35	0Cr18Ni9	0Cr18Ni9
	ASME	A193 B7	A320-B8	A320-B8
螺 母 Nut	GB	45	1Cr13	1Cr13
	ASME	A194 2H	A194-8	A194-8

TQ41F-16/25



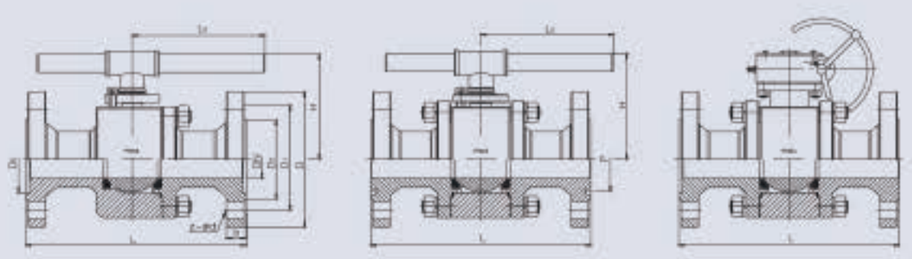
公称压力Nominal pressure: 1.6MPa

Size/DN	L	D	D1	D2	b	Z-φd	L0	H
15	130	95	65	45	14	4-φ14	130	65
20	130	105	75	55	14	4-φ14	130	65
25	140	115	85	65	14	4-φ14	160	95
32	165	140	100	76	16	4-φ18	160	112
40	165	150	110	85	16	4-φ18	225	125
50	203	165	125	100	16	4-φ18	225	145
65	222	185	145	120	18	4-φ18	350	168
80	241	200	160	135	20	8-φ18	350	187
100	305	220	180	155	20	8-φ18	420	235
125	356	250	210	185	22	8-φ18	580	260
150	394	285	240	210	24	8-φ23	750	290
200	457	340	295	265	26	12-φ23	870	365
250	533	405	355	320	30	12-φ25	870	383

公称压力Nominal pressure: 2.5MPa

Size/DN	L	D	D1	D2	b	Z-φd	L0	H
15	140	95	65	45	16	4-φ14	130	65
20	152	105	75	55	16	4-φ14	130	85
25	165	115	85	65	16	4-φ14	160	95
32	178	140	100	76	18	4-φ18	160	112
40	190	150	110	85	18	4-φ18	225	125
50	216	165	125	100	20	4-φ18	225	145
65	241	185	145	120	22	8-φ18	350	168
80	283	200	160	135	22	8-φ18	350	187
100	305	235	190	160	24	8-φ23	420	235
125	381	270	220	188	28	8-φ25	580	260
150	403	300	250	218	30	8-φ25	750	290
200	502	360	310	278	34	12-φ25	870	365
250	568	425	370	332	36	12-φ30	870	383

TQ41F-40/64



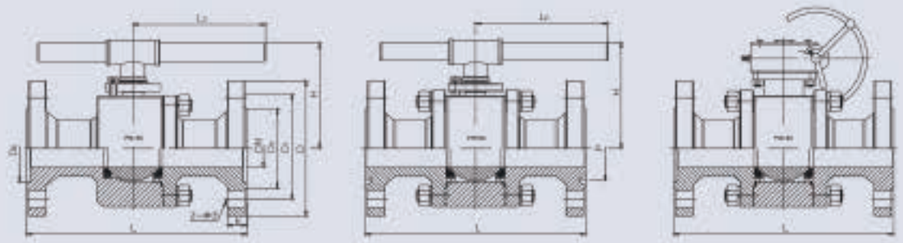
公称压力Nominal pressure: 4.0MPa

Size/DN	L	D	D1	D2	D4	b	Z-φd	L0	H
15	140	95	65	45	40	16	4-φ14	130	65
20	152	105	75	55	51	16	4-φ14	130	65
25	165	115	85	65	58	16	4-φ14	160	95
32	178	140	100	76	66	18	4-φ18	160	112
40	190	150	110	85	76	18	4-φ18	225	125
50	216	165	125	100	88	20	4-φ18	225	145
65	241	185	145	120	110	22	8-φ18	380	168
80	283	200	160	135	121	22	8-φ18	500	187
100	305	235	190	160	150	24	8-φ23	760	235
125	381	270	220	188	176	28	8-φ25	950	270
150	403	300	250	218	204	30	8-φ25	1100	295
200	502	375	320	282	260	38	12-φ30	–	–
250	568	450	385	345	313	42	12-φ34	–	–

公称压力Nominal pressure: 6.4MPa

Size/DN	L	D	D1	D2	D4	P	b	Z-φd	L0	H
15	165	105	75	55	40	35	18	4-φ14	130	66
20	190	130	90	68	51	45	20	4-φ18	130	85
25	216	140	100	78	58	50	22	4-φ18	160	96
32	229	155	110	82	66	65	24	4-φ23	160	112
40	241	170	125	95	76	75	24	4-φ23	225	125
50	292	180	135	105	88	85	26	4-φ23	225	145
65	330	205	160	130	110	110	28	8-φ23	380	168
80	356	215	170	140	121	115	30	8-φ23	500	187
100	406	250	200	168	150	145	32	8-φ25	760	235
125	400	295	240	202	176	175	36	8-φ30	950	270
150	496	345	280	240	204	205	38	8-φ34	1100	296
200	597	415	345	300	260	265	44	12-φ34	–	–
250	673	470	400	352	313	320	48	12-φ41	–	–

Q41F-100/160



公称压力Nominal pressure: 10.0MPa

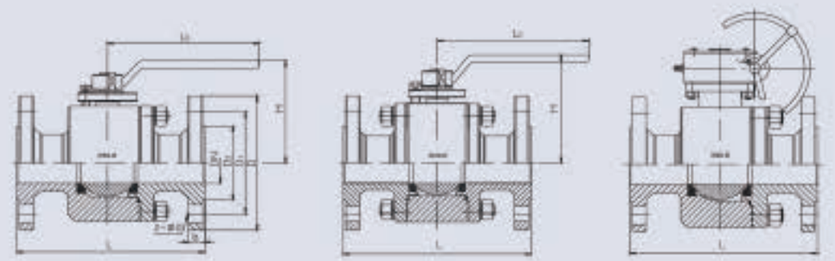
Size/DN	L	D	D1	D2	D4	P	b	Z-Φd	L0	H
15	165	105	75	55	40	35	20	4-Φ14	130	65
20	190	130	90	68	51	45	22	4-Φ18	130	85
25	216	140	100	78	58	50	24	4-Φ18	160	95
32	229	155	110	82	66	65	24	4-Φ23	160	112
40	241	170	125	95	76	75	26	4-Φ23	225	125
50	292	195	145	112	88	85	28	4-Φ25	225	145
65	330	220	170	138	110	110	32	8-Φ25	360	168
80	356	230	180	148	121	115	34	8-Φ25	500	187
100	432	265	210	172	150	145	38	8-Φ30	760	235
125	508	315	250	210	176	175	42	8-Φ34	-	-
150	559	355	290	250	204	205	46	12-Φ34	-	-
200	660	430	360	312	260	265	54	12-Φ41	-	-
250	787	505	430	382	313	320	60	12-Φ41	-	-

公称压力Nominal pressure: 16.0MPa

Size/DN	L	D	D1	D2	D4	P	b	Z-Φd	L0	H
15	165	110	75	52	40	35	24	4-Φ18	130	65
20	190	130	90	62	51	45	26	4-Φ23	130	85
25	254	140	100	72	58	50	28	4-Φ23	160	95
32	279	165	115	85	66	65	30	4-Φ25	160	112
40	305	175	125	92	76	75	32	4-Φ27	320	125
50	368	215	165	132	88	95	36	8-Φ25	350	145
65	419	245	190	152	110	110	44	8-Φ30	400	168
80	381	260	205	168	121	130	46	8-Φ30	480	187
100	457	300	240	200	150	160	48	8-Φ34	580	235
125	559	355	285	238	176	190	60	8-Φ41	-	-
150	610	390	318	270	204	205	66	12-Φ41	-	-
200	737	480	400	345	260	275	78	12-Φ48	-	-
250	838	580	485	425	313	330	88	12-Φ54	-	-

Forged steel ball valve
锻钢球阀

TQ41F-150/300LB



公称压力Nominal pressure: 150LB

Size		L	D	D1	D2	b	Z-Φd	L0	H
in	DN								
1/2	15	108	90	60.5	35	10	4-Φ15	130	65
3/4	20	117	98	70	43	11	4-Φ15	130	85
1	25	127	108	79.5	51	12	4-Φ15	160	95
1 ½	40	165	127	98.5	73	15	4-Φ15	225	125
2	50	178	152	120.5	92	16	4-Φ19	225	145
2 ½	65	190	178	139.5	105	18	4-Φ19	360	168
3	80	203	190	152.5	127	19	4-Φ19	500	187
4	100	229	229	190.5	157	24	8-Φ19	760	235
5	125	356	254	216	186	24	8-Φ23	-	-
6	150	394	279	241.5	216	26	8-Φ23	-	-
8	200	457	343	298.5	270	29	8-Φ23	-	-

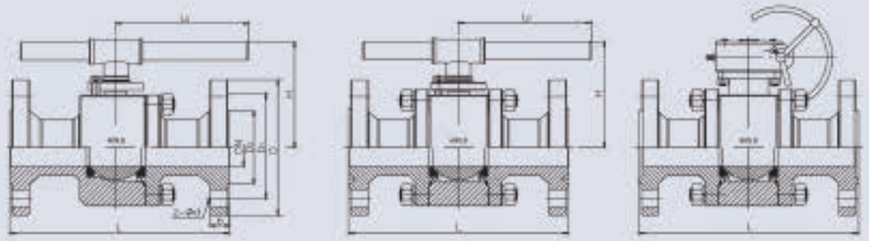
公称压力Nominal pressure: 300LB

Size		L	D	D1	D2	b	Z-Φd	L0	H
in	DN								
1/2	15	140	95	66.5	35	15	4-Φ15	130	65
3/4	20	152	117	82.5	43	16	4-Φ19	130	85
1	25	165	124	89	51	18	4-Φ19	160	95
1 ½	40	190	156	114.5	73	21	4-Φ23	320	125
2	50	216	165	127	92	23	8-Φ19	350	145
2 ½	65	241	190	149	105	26	8-Φ23	400	168
3	80	283	210	168	127	29	8-Φ23	480	187
4	100	305	254	200	157	32	8-Φ23	580	235
5	125	356	279	235	186	35	8-Φ23	-	-
6	150	403	318	270	216	37	12-Φ23	-	-
8	200	502	381	330	270	42	12-Φ25	-	-

Forged steel ball valve

锻钢球阀

TQ41F-600/900LB



公称压力Nominal pressure: 600LB

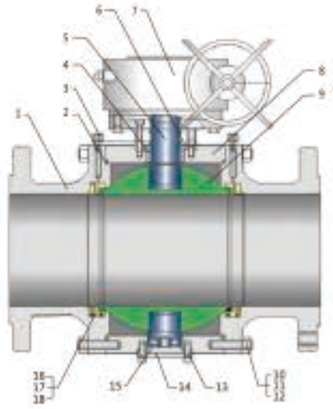
Size									
in	DN	L	D	D_1	D_2	b	Z-ø d	L_0	H
1/2	15	165	95	66.5	35	15	4-ø15	130	65
3/4	20	190	117	82.5	43	16	4-ø19	130	85
1	25	216	124	89	51	18	4-ø19	160	95
1½	40	241	156	114.5	73	23	4-ø23	225	125
2	50	292	165	127	92	26	8-ø19	225	145
2½	65	330	190	149	105	29	8-ø23	380	168
3	80	356	210	168	127	32	8-ø23	500	187
4	100	432	273	216	157	38	8-ø25	760	235
5	125	508	330	266.5	186	45	8-ø30	-	-
6	150	559	356	292	216	48	12-ø30	-	-
8	200	660	419	349	270	56	12-ø33	-	-

公称压力Nominal pressure: 900LB

Size									
in	DN	L	D	D_1	D_2	b	Z-ø d	L_0	H
1½	40	305	178	124	73	32	4-ø30	225	125
2	50	368	216	165	92	38.5	8-ø25	225	145
2½	65	419	244	190.5	105	41.5	8-ø30	380	168
3	80	381	241	190.5	127	38.5	8-ø25	500	187
4	100	457	292	235	157	44.5	8-ø33	760	235
5	125	559	349	279.5	186	51	8-ø36	-	-
6	150	610	381	317.5	216	56	12-ø33	-	-
8	200	737	470	393.5	270	63.5	12-ø39	-	-

Trunnion mounted metal seal ball valve

固定式金属密封球阀



1. Labor-saving operation: The ball is supported by upper and lower bearings. The friction is reduced, and too high torque caused by enormous sealing load formed because of the inlet pressure pushing the ball and seat is eliminated.

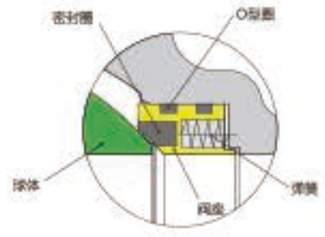
2. Reliable sealing performance (see figure 1): The PTFE seal ring of elastic materials is embedded in the stainless steel seat. The end of the metal seat is provided with a spring to ensure sufficient pre-tightening force. During the use of the valve, if the sealing face wears, the valve will continue to ensure good sealing performance under the action of the spring.

3. Fire safe structure (see figure 1): In order to avoid leakage and stop fire spreading when the PTFE seal ring is burnt due to the occurrence of heat accumulation or fire, the fire safe seal ring is set between the ball and seat. When the seal ring is burnt, under the action of the spring, the seat seal ring will be rapidly pushed towards the ball to form metal-to-metal sealing and achieve certain sealing effect. The fire safe test conforms to requirements in API6FA and API607.

1、操作省力：球体由上下轴承支撑，减少摩擦，消除了由于进口压力推动球体与密封座形成的巨大密封负荷而造成过大的扭矩。

2、密封性能可靠（见图1）：PTFE弹性材料密封圈嵌于不锈钢阀座内，金属阀座尾端设有弹簧，保证密封足够的预紧力，阀门在使用过程中密封面磨损时，在弹簧的作用下阀门继续保证良好的密封性能。

3、防火结构（见图1）：为防止由于聚热或者火灾的出现，使聚四氟乙烯密封圈烧毁，发生较大泄露，而助长火势，在球体与阀座间设置防火密封环，在密封圈烧毁时，在弹簧的作用下，将阀座密封环迅速推向球体，形成金属与金属密封，起到一定程度的密封效果，耐火试验符合API6FA和API607标准要求。



主要零部件材料 Materials for main parts

序号 No.	名称 Name	材料 Material
1	阀 盖 Bonnet	WCB/304/316
2	密封垫 Sealing gasket	PTFE/PPL
3	螺 钉 Screw	35/304
4	填 料 Packing	PTFE/PPL
5	阀 杆 Stem	2Cr13/304/316
6	压 盖 Gland	WCB/304/316
7	蜗 轮 Worm gear	组合件
8	阀 体 Body	WCB/304/316
9	球 体 Ball	420/304/316
10	螺 栓 Bolt	35/304
11	弹 垫 Spring washer	45/304
12	螺 母 Nut	45/304
13	螺 钉 Screw	35/304
14	定心盖 Centering cover	420/304/316
15	O型圈 O ring	NBR/Viton
16	支撑圈 Support ring	420/304/316
17	阀 座 Seat	增强石墨
18	压缩弹簧 Compression spring	60Si2Mn/304/316

4、自动泄压功能（见图2）：当阀门中腔的介质压力异常升高而超过弹簧的预紧力时，阀座后退脱离球体，达到自动泄压的效果，泄压后阀座自动复位。

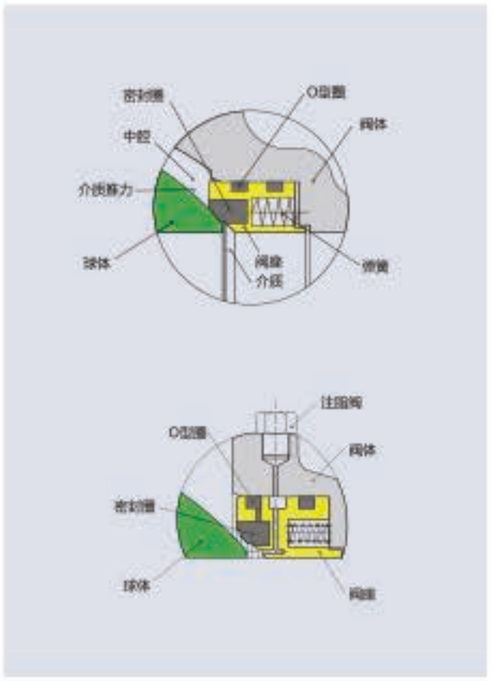
5、排泄管路：阀体上下均设置排泄孔，可检查阀座是否发生泄露。在工作中，阀门处于全开或全关时，卸掉中腔压力，可直接更换填料；可以排放中腔滞留物，减少介质对阀门的污染。辅助密封设置系统【客户需要请在订购时说明】

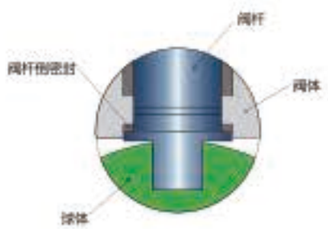
6、见图4：本阀门设计有辅助的阀座紧急密封系统，一旦密封受损或出现紧急情况而不能密封时，通过辅助密封系统向密封面注射相应的密封剂即可修护密封面，达到紧急密封。当输送的介质不洁净或含有少量颗粒时，为了保护密封面，确保达到可靠的密封，还可给这一装置注射相应的清洗剂或者润滑剂对密封面进行清洗。

4. Automatic pressure relief function (see figure 2): When the medium pressure in the valve cavity rises abnormally and exceeds the pre-tightening force of the spring, the seat will go back and leave the ball to achieve the automatic pressure relief effect. After pressure relief, the seat will return to its position automatically.

5. Drain pipe: The body is set with drain holes at the upper and lower parts, which can be used to check if there is any leakage in the valve. During the work, when the valve is fully opened or fully closed, if the cavity pressure is discharged, the packing can be directly replaced, and residues in the cavity can be discharged to reduce medium pollution to the valve. Auxiliary sealing device system (Please specify it if customers need it.)

6. See figure 4. The valve is designed with an auxiliary seat emergency sealing system. Once the seal is damaged or sealing cannot be realized under emergency circumstances, the auxiliary sealing system will inject corresponding sealant to the sealing face to repair the sealing face and achieve emergency sealing. If the transported media are not clean or contain small amounts of particles, in order to protect the sealing face and ensure that reliable sealing is realized, this device can be injected with corresponding detergent or lubricant to clean the sealing face.





7、阀杆防飞结构：阀杆为下装式，防止受压飞出，同时可在火灾后，与阀体形成金属接触，确保阀杆密封；

8、广泛适用于食品、医药、石油、化工、天然气、钢铁、环保、造纸等输送管路介质的切断或流通。还可给这一装置注射相应的清洗剂或者润滑剂对密封面进行清洗。

7.Stem blow-out proof structure: The stem is of bottom mounted type to prevent it from being blown out under pressure and ensure stem sealing through forming metal contact with the body after fire.

8.It is widely applied for shut-off or flow of media in transportation pipelines in food, medicine, petroleum, chemical industry, natural gas, iron and steel, environmental protection, pulp & paper, etc. This device can be injected with corresponding detergent or lubricant to clean the sealing face.

Trunnion mounted metal seal ball valve
固定式金属密封球阀



执行标准

1、设计和制造：GB/T 12237-1989；API 608
2、检验和试压：GB/T 13927-1992；API 598
3、法兰连接：JB/T 79.1-4-1994；ASME/ANSI B16.5
4、结构长度：GB/T 12221-1989；ASME/ANSI B16.10

Executed standards

1、Design and manufacturing：GB/T 12237-1989；API 608
2、Inspection and pressure testing：GB/T 13927-1992；API 598
3、Flange connection：JB/T 79.1-4-1994；ASME/ANSI B16.5
4、Face-to-face dimensions：GB/T 12221-1989；ASME/ANSI B16.10

性能规范 Performance specification

公称压力(PN) Nominal pressure	常温最大工作压力 Maximum working pressure at normal temperature	壳体试验压力 Shell test pressure	气密封试验压力 Gas seal test pressure	高压密封试验压力 High pressure seal test pressure
1.6	1.6	2.4	0.6	1.76
2.5	2.5	3.75	0.6	2.75
4.0	4.0	6.0	0.6	4.4
Class150	2.0	3.0	0.6	2.2
Class300	5.0	7.5	0.6	5.5

适用范围 Application range

壳体材料 Shell material	阀座材料 Seat material	适用温度 Applicable temperature	适用介质 Applicable media
碳钢C型 Carbon steel C type	增强石墨 Reinforced graphite	-29～425℃	水,蒸汽,油品等 Water, steam, oil, etc.
铬镍钛钢P型 Cr-Ni-Ti steel P type	增强石墨 Reinforced graphite	-196～540℃	硝酸类腐蚀性介质 Nitric acid corrosive media
铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type	增强石墨 Reinforced graphite	-196～560℃	醋酸类腐蚀性介质 Acetic acid corrosive media

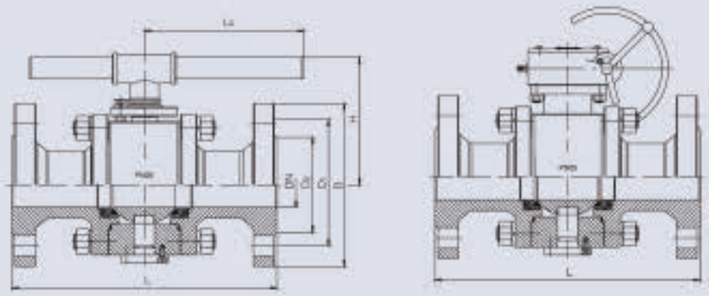
主要零件材料 Materials for main parts

型式 Type / 部件 Part	标准类型 Standard type	碳钢C型 Carbon steel C type	铬镍钛钢P型 Cr-Ni-Ti steel P type	铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type
阀体、阀盖 Body, bonnet	GB	WCB	ZG0Cr18Ni9	ZG0Cr17Ni12Mo2
	ASME	WCB	CF8	CF8M
球体 Ball	GB	2Cr13	0Cr18Ni9	0Cr17Ni12Mo2
	ASME	420	304	316
阀杆 Stem	GB	2Cr13	0Cr18Ni9	0Cr17Ni12Mo2
	ASME	420	304	316
阀座 Seat	GB	增强石墨Reinforced graphite	增强石墨Reinforced graphite	增强石墨Reinforced graphite
	ASME	增强石墨Reinforced graphite	增强石墨Reinforced graphite	增强石墨Reinforced graphite
填料 Packing	GB	PPL/柔性石墨	PPL/柔性石墨	PPL/柔性石墨
	ASME	PPL/柔性石墨	PPL/柔性石墨	PPL/柔性石墨
螺栓 Bolt	GB	35	0Cr18Ni9	0Cr18Ni9
	ASME	A193 B7	A320-B8	A320-B8
螺母 Nut	GB	45	0Cr18Ni9	0Cr18Ni9
	ASME	A194 2H	A194-8	A194-8

Trunnion mounted metal seal ball valve

固定式金属密封球阀

TQ47H/Y-16/25



公称压力Nominal pressure: 1.6MPa

Size/DN	L	D	D_1	D_2	b	Z-Φd	L_0	H
15	130	95	65	45	14	4-Φ14	130	65
20	130	105	75	55	14	4-Φ14	130	85
25	140	115	85	65	14	4-Φ14	160	95
32	165	140	100	76	16	4-Φ18	160	112
40	165	150	110	85	16	4-Φ18	225	125
50	203	165	125	100	16	4-Φ18	225	145
65	222	185	145	120	18	4-Φ18	350	168
80	241	200	160	135	20	8-Φ18	350	187
100	305	220	180	155	20	8-Φ18	420	235
125	356	250	210	185	22	8-Φ18	580	260
150	394	285	240	210	24	8-Φ23	750	290

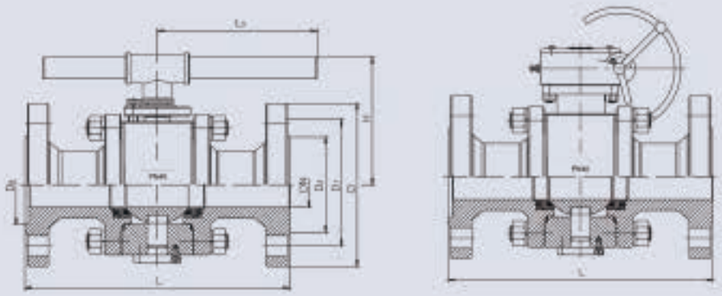
公称压力Nominal pressure: 2.5MPa

Size/DN	L	D	D_1	D_2	b	Z-Φd	L_0	H
15	140	95	65	45	16	4-Φ14	130	65
20	152	105	75	55	16	4-Φ14	130	85
25	165	115	85	65	16	4-Φ14	160	95
32	178	140	100	76	18	4-Φ18	160	112
40	190	150	110	85	18	4-Φ18	225	125
50	216	165	125	100	20	4-Φ18	225	145
65	241	185	145	120	22	8-Φ18	350	168
80	283	200	160	135	22	8-Φ18	350	187
100	305	235	190	160	24	8-Φ23	420	235
125	381	270	220	188	26	8-Φ25	580	260
150	403	300	250	218	30	8-Φ25	750	290

Trunnion mounted metal seal ball valve

固定式金属密封球阀

TQ47H/Y-40



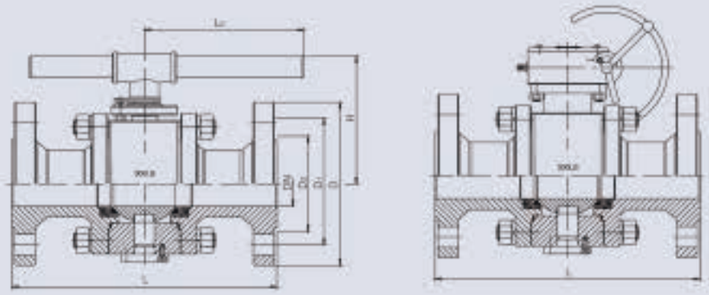
公称压力Nominal pressure: 4.0MPa

Size/DN	L	D	D_1	D_2	D_4	b	Z-Φd	L_0	H
15	140	95	65	45	40	16	4-Φ14	130	65
20	152	105	75	55	51	16	4-Φ14	130	85
25	165	115	85	65	58	16	4-Φ14	160	95
32	178	140	100	76	66	18	4-Φ18	160	112
40	190	150	110	85	76	18	4-Φ18	225	125
50	216	165	125	100	88	20	4-Φ18	225	145
65	241	185	145	120	110	22	8-Φ18	380	168
80	283	200	160	135	121	22	8-Φ18	500	187
100	305	235	190	160	150	24	8-Φ23	760	235
125	381	270	220	188	176	26	8-Φ25	950	270
150	403	300	250	218	204	30	8-Φ25	1100	295

Trunnion mounted metal seal ball valve

固定式金属密封球阀

TQ47H/Y-150/300LB



公称压力Nominal pressure: 150LB

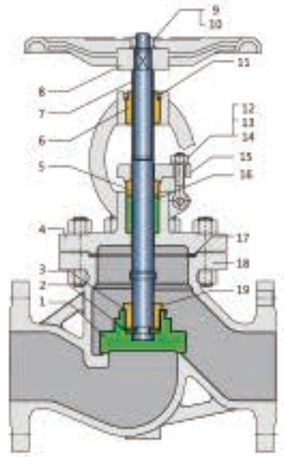
Size									
in	DN	L	D	D1	D2	b	Z-Φd	Lo	H
1/2	15	108	90	60.5	35	10	4-Φ15	130	65
3/4	20	117	98	70	43	11	4-Φ15	130	85
1	25	127	108	79.5	51	12	4-Φ15	160	95
1½	40	165	127	98.5	73	15	4-Φ15	225	125
2	50	178	152	120.5	92	16	4-Φ19	225	145
2½	65	190	178	139.5	105	18	4-Φ19	380	168
3	80	203	190	152.5	127	19	4-Φ19	500	187
4	100	229	229	190.5	157	24	8-Φ19	760	235
5	125	356	254	216	186	24	8-Φ23	-	-
6	150	394	279	241.5	216	26	8-Φ23	-	-
8	200	457	343	298.5	270	29	8-Φ23	-	-

公称压力Nominal pressure: 300LB

Size									
in	DN	L	D	D1	D2	b	Z-Φd	Lo	H
1/2	15	140	95	66.5	35	15	4-Φ15	130	65
3/4	20	152	117	82.5	43	16	4-Φ19	130	85
1	25	165	124	89	51	18	4-Φ19	160	95
1½	40	190	156	114.5	73	21	4-Φ23	320	125
2	50	216	165	127	92	23	8-Φ19	360	145
2½	65	241	190	149	105	26	8-Φ23	400	168
3	80	283	210	168	127	29	8-Φ23	480	187
4	100	305	254	200	157	32	8-Φ23	580	235
5	125	356	279	235	186	35	8-Φ23	-	-
6	150	403	318	270	216	37	12-Φ23	-	-
8	200	502	381	330	270	42	12-Φ25	-	-

Flanged globe valve

法兰截止阀



工作原理

截止阀，也叫截门，是使用最广泛的一种阀门之一，它之所以广受欢迎，是由于开闭过程中密封面之间摩擦力小，比较耐用，开启高度不大，制造容易，维修方便，不仅适用于中低压，而且适用于高压。截止阀的闭合原理是，依靠阀杆压力，使阀瓣密封面与阀座密封面紧密贴合，阻止介质流通。截止阀只许介质单向流动，安装时有方向性。截止阀的结构长度大于闸阀，同时流体阻力大，长期运行时，密封可靠性不强。

优点

1、结构简单，制造和维修比较方便。
2、工作行程小，启闭时间短。
3、密封性好，密封面间磨擦力小，寿命较长。
4、截止阀阀体的结构形式有直通式、直流式和直角式。
直通式是最常见的结构，但其流体的阻力最大。
直流式流体阻力较小，多用于含固体颗粒或粘度大的流体。
直角式阀体多采用锻造，适用于较小通径、较高压力的的截止阀。

缺点

1、流体阻力大，开启和关闭时所需力较大。
2、不适用于带颗粒、粘度较大、易结焦的介质。
3、调节性能较差。

安装与维护

1、手轮、手柄操作的截止阀可安装在管道的任何位置上。
2、手轮、手柄及传动机构，不允许作起吊用。
3、介质的流向应与阀体所示箭头方向一致。

Working principle

The globe valve is one of the most widely used valves. It is very popular as it has such features as low friction between sealing faces during the opening and closing process, good durability, relatively low opening height, easy manufacturing and convenient maintenance, and is suitable for low, medium and high pressure. The closing principle of the globe valve is that the disc sealing face and seat sealing face are kept close to each other under the stem pressure to prevent medium flow. The globe valve is only allowed to flow one way, and its installation shall follow the direction requirements. The face-to-face dimensions of the globe valve are larger than those of the gate valve. In addition, the fluid resistance is high. During long-time running, its sealing reliability is not good.

Advantages

1. Simple structure, relatively convenient manufacturing and maintenance.
2. Low working travel and short opening and closing time.
3. Good sealing performance, low friction between sealing faces and relatively long service life.
4. The structural types of the globe valve body include straight-through type, direct flow type and right angle type. The straight-through type structure is the most common structure, but the fluid resistance is the highest. The fluid resistance is relatively low in the direct flow type structure, but it is mostly used for fluids that contain solid particles or those of high viscosity. The right angle type body is mostly forged, suitable for globe valves of relatively small diameter and relatively high pressure.

Disadvantages

1. High fluid resistance, relatively high force required during opening and closing.
2. Not applicable to media that contain particles, those of high viscosity and those that may easily agglomerate.
3. Relatively bad regulating performance.

Installation and maintenance

1. The globe valve that is operated by handwheel or handle can be installed at any position on the pipe.
2. The handwheel, handle and driving mechanism cannot be used for hoisting.
3. The medium flow direction shall be consistent with the direction indicated by the arrow on the body.

主要零部件材料 Materials for main parts

序号 No.	名称 Name	材料 Material
1	阀瓣 Disc	WCB/CF8/CF8M
2	对开环 Split ring	420/304/316
3	垫圈 Washer	45/304/316
4	阀盖 Bonnet	WCB/CF8/CF8M
5	压套 Gland	WCB/304
6	阀杆螺母 Stem nut	Cu
7	阀杆 Stem	420/304/316
8	手轮 Handwheel	t15;QT400
9	螺母 Nut	45/304
10	平垫 Flat washer	45/304
11	紧定螺钉 Set screw	35/304
12	活节螺栓 Eye bolt	35/304
13	销轴 Pin	35/304
14	开口销 Cotter pin	45/304
15	填料压盖 Packing gland	WCB/CF8
16	填 料 Packing	PTFE/PPL/柔性石墨
17	密封垫 Sealing gasket	PTFE/PPL
18	阀体 Body	CF8/CF8M
19	压盖 Gland	xt2;CF8/CF8M

执行标准

1、设计和制造: GB/T 12235-2007
2、检验和试压: JB/T 9092-1999
3、法兰连接: JB/T 79.1-4-1994
4、结构长度: GB/T 12221-2005

Executed standards

1、Design and manufacturing: GB/T 12235-2007
2、Inspection and pressure testing: JB/T 9092-1999
3、Range connection: JB/T 79.1-4-1994
4、Face-to-face dimensions: GB/T 12221-2005

性能规范 Performance specification

公称压力(PN) Nominal pressure	常温最大工作压力 Maximum working pressure at normal temperature	壳体试验压力 Shell test pressure	气密封试验压力 Gas seal test pressure	高压密封试验压力 High pressure seal test pressure
1.6	1.6	2.4	0.6	1.76
2.5	2.5	3.75	0.6	2.75
4.0	4.0	6.0	0.6	4.4

适用范围 Application range

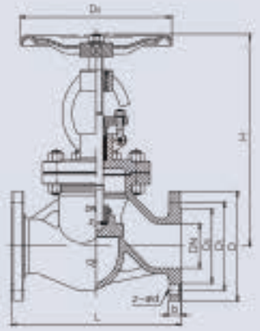
壳体材料 Shell material	阀座材料 Seat material	适用温度 Applicable temperature	适用介质 Applicable media
碳钢C型 Carbon steel C type	聚四氟乙烯PTFE	-29～180℃	水,蒸汽,油品等 Water, steam, oil, etc
	柔性石墨	-29～425℃	
铬镍钛钢P型 Cr-Ni-Ti steel P type	聚四氟乙烯PTFE	-40～180℃	硝酸类腐蚀性介质 Nitric acid corrosive media
	柔性石墨	-196～540℃	
铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type	聚四氟乙烯PTFE	-40～180℃	醋酸类腐蚀性介质 Acetic acid corrosive media
	柔性石墨	-196～560℃	

主要零件材料 Materials for main parts

部件 Part \ 型式 Type	标准类型 Standard type	碳钢C型 Carbon steel C type	铬镍钛钢P型 Cr-Ni-Ti steel P type	铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type
阀体、阀盖 Body, bonnet	GB	WCB	ZG0Cr18Ni9	ZG0Cr17Ni12Mo2
	ASME	WCB	CF8	CF8M
球体 Ball	GB	A105	0Cr18Ni9	0Cr17Ni12Mo2
	ASME	420	304	316
阀杆 Stem	GB	20Cr13	0Cr18Ni9	0Cr17Ni12Mo2
	ASME	420	304	316
阀座 Seat	GB	20Cr13	0Cr18Ni9	0Cr17Ni12Mo2
	ASME	420	304	316
填料 Packing	GB	PTFE/柔性石墨	PTFE/柔性石墨	PTFE/柔性石墨
	ASME	PTFE/柔性石墨	PTFE/柔性石墨	PTFE/柔性石墨
螺栓 Bolt	GB	35	0Cr18Ni9	0Cr18Ni9
	ASME	A193 B7	A320-B8	A320-B8
螺母 Nut	GB	45	0Cr18Ni9	0Cr18Ni9
	ASME	A194 2H	A194-8	A194-8

TJ41W-16/25





公称压力Nominal pressure: 1.6MPa

Size/DN	L	D	D₁	D₂	b	Z-Φd	H	D₀
15	130	95	65	45	14	4-φ14	197	120
20	150	105	75	55	14	4-φ14	208	140
25	160	115	85	65	14	4-φ14	235	160
32	180	135	100	76	16	4-φ18	247	180
40	200	145	110	85	16	4-φ18	270	200
50	230	160	125	100	18	4-φ18	290	220
65	290	180	145	120	18	4-φ18	365	240
80	310	195	160	135	20	8-φ18	378	280
100	350	215	180	155	20	8-φ18	423	320
125	400	245	210	185	22	8-φ18	465	360
150	480	280	240	210	24	8-φ23	510	400
200	600	335	295	268	26	12-φ23	615	450

公称压力Nominal pressure: 2.5MPa

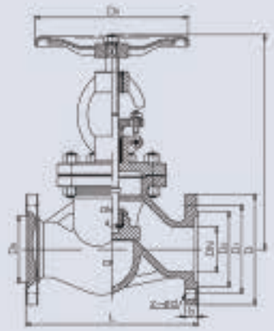
Size/DN	L	D	D₁	D₂	b	Z-φd	H	D₀
15	130	95	65	45	16	4-φ14	197	120
20	150	105	75	55	16	4-φ14	208	140
25	160	115	85	65	16	4-φ14	235	160
32	180	135	100	76	18	4-φ18	247	180
40	200	145	110	85	18	4-φ18	270	200
50	230	160	125	100	20	4-φ18	290	220
65	290	180	145	120	22	8-φ18	365	240
80	310	195	160	135	22	8-φ18	378	280
100	350	230	190	160	24	8-φ23	423	320
125	400	270	220	188	28	8-φ25	465	360
150	480	300	250	218	30	8-φ25	510	400
200	600	360	310	278	34	12-φ25	615	450

Flanged globe valve

法兰截止阀

TJ41W-40





公称压力Nominal pressure: 4.0MPa

Size/DN	L	D	D_1	D_2	D_K	b	Z–φd	H	D_3
15	130	95	65	45	40	14	4–φ14	205	120
20	150	105	75	55	51	16	4–φ14	210	140
25	160	115	85	65	58	16	4–φ14	242	160
32	180	135	100	76	66	18	4–φ18	250	180
40	200	145	110	85	76	18	4–φ18	270	200
50	230	160	125	100	88	20	4–φ18	305	220
65	290	195	145	120	110	22	8–φ18	376	240
80	310	195	160	135	121	22	8–φ18	385	280
100	350	230	190	160	150	24	8–φ23	440	320
125	400	270	220	188	176	26	8–φ25	480	360
150	480	300	250	218	204	28	8–φ25	520	400
200	600	375	320	282	260	32	12–φ30	630	450

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2

螺纹连接系列

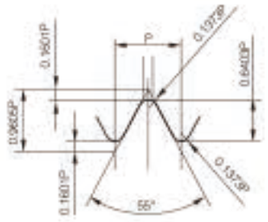
THREAD CONNECTION SERIES

55°圆柱管螺纹的转化
Conversion of 55° cylindrical pipe thread

55° 圆柱管螺纹，来源于英寸制系列，但米制和英寸制国家均广泛采用，用于输送液体些，气体和安装电线的管接头与管子的联接。然行，各国的代号不同。应按下表(对照表)中的国外代号转化为我国代号，现将各国的55° 圆柱管螺纹代号列于下表。

55° cylindrical pipe thread originates from British system, but is widely adopted in the countries that use metric system and British system. It is used for connecting pipe connector with pipe for conveying liquid, gas and installing electric wires. But the codes in various countries are different. The overseas codes shall be converted into Chinese code according to the following table (contrast table). Now the codes of 55° cylindrical pipe thread in various countries are listed in the following table.

国别 Country	ISO	中国 China	日本 Japan	英国 England	法国 France	德国 Germany	前苏联 Former Soviet Union
代号 Code	Rp	G	G、PF	BSP BSPP	G	R(内螺纹) Female thread K(外螺纹) Male thread	G TPyб



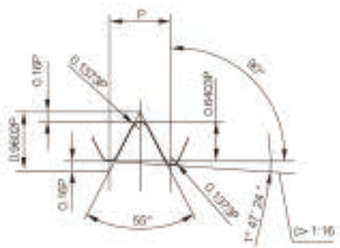
55°圆柱管螺纹

55°圆锥管螺纹的转化
Conversion of 55° taper pipe thread

55° 圆锥管螺纹，是指螺纹的牙型角为55° ，螺纹具有1：16的锥度。该系列螺纹在世界上应用广泛，它的代号，各国规定不同，见下表。按下表中的国外代号转化为我国代号。

55° taper pipe thread means that the thread angle is 55° and the thread has a taper of 1:16. The series of threads are widely applied in the world. The codes in various countries are different. See the following table. The overseas codes shall be converted into Chinese code according to the following table.

国别 Country	ISO	中国 China	日本 Japan	英国 England	法国 France	德国 Germany
代号 Code	R(外螺纹) Male thread RC(内螺纹) Female thread	ZG R(外螺纹) Male thread	PT R	BSPT R(外螺纹) Male thread RC(内螺纹) Female thread	G(外螺纹)Male thread R(外螺纹)Male thread	R(外螺纹) Male thread



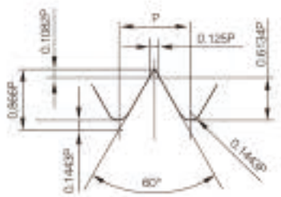
55°圆锥管螺纹

60°圆锥管螺纹的转化
Conversion of 60° taper pipe thread

60° 圆锥管螺纹是指牙型角为60° 、螺纹锥度为1：16的管螺纹，此系列螺纹在我国机床行业和美国、前苏联应用。它的代号，我国过去规定为K，后来规定为Z，现在改为NPT。螺纹代号对照表见下表。

60 ° taper pipe thread means that the thread angle is 60 ° and the thread has a taper of 1:16. The series of threads are applied in China's machine tool industry and used in USA and USSR. The code was K in the past and then Z, now it is changed into NPT.See the following table for the thread code contrast table.

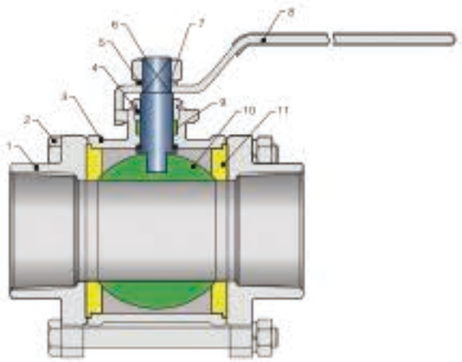
国别 Country	中国 China	美国 USA	苏联 Soviet Union
代号 Code	Z(旧Old) NPT(新New)	NPT	B



60°圆锥管螺纹

采用ISO标准的各国标准号 Standard No. in various countries that adopt the ISO standard

标准名称 Standard name	圆锥管螺纹 Taper pipe thread	圆柱管螺纹 Cylindrical pipe thread
国际标准 International standard	ISO 7/1-1982	ISO 228-1982
英国标准 British standard	BS 21	BS 2779
德国标准 German standard	DIN 2999	DIN 259
法国标准 French standard	NF E03-004	NF E03-005
日本标准 Japanese standard	JIS B 0203	JIS B 0202
前苏联标准 USSR standard	roCT 6211	roCT 6357
中国标准 Chinese standard	GB/T 7306	GB/T 7307



工作原理

球阀它具有旋转90度的动作，旋塞体为球体，有圆形通孔或通道通过其轴线。球阀在管路中主要用来做切断、分配和改变介质的流动方向，它只需要用旋转90度的操作和很小的转动力矩就能关闭严密。球阀最适宜做开关、切断阀使用，但近来的发展已将球阀设计成使它具有节流和控制流量之用，如V型球阀。

主要特点

是本身结构紧凑，密封可靠，结构简单，维修方便，密封面与球面常在闭合状态，不易被介质冲蚀，易于操作和维修，适用于水、溶剂、酸和天然气等一般工作介质，而且还适用于工作条件恶劣的介质，如氧气、过氧化氢、甲烷和乙烯等。在各行业得到广泛的应用。球阀阀体可以是整体的，也可以是组合式的。

球阀优点

（1）流体阻力小，全通径的球阀基本没有流阻。
（2）结构简单、体积小、重量轻。
（3）紧密可靠。它有两个密封面，而且目前球阀的密封面材料广泛使用各种塑料，密封性好，能实现完全密封。在真空系统中也已广泛使用。
（4）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。
（5）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。
（6）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，不会引起球阀密封面的侵蚀。
（7）适用范围广，通径从小到几毫米，大到几米，从高真空至高压力都可应用。
（8）由于球阀在启闭过程中有擦拭性，所以可用于带悬浮固体颗粒的介质中。

Working principle

The ball valve is able to make an action of turning for 90°. The plug is the ball. It has round hole or passage that passes the axial line. The ball valve is mainly used to shut off, distribute and change the medium flow direction in the pipe. It only needs to turn for 90° and very low turning torque to realize tight shut-off. The ball valve is most suitable for use as an on-off valve and shut-off valve. But in recent development, the ball valve has been designed to be used for throttling and controlling flow, such as V type ball valves.

Main features

It is featured by compact structure, reliable sealing, simple structure and convenient maintenance. The sealing face and ball face are normally at the closing status, so it will not be easily eroded by media. It is easy to operate and repair. It is suitable for common working media such as water, solvent, acid, natural gas, etc. It is also applicable to media under severe service conditions such as oxygen, hydrogen peroxide, methane, ethylene, etc. It has been widely applied in many industries. The ball valve body may be integral or combined.

Advantages of ball valves

(1) Low fluid resistance. The full bore ball valve basically has no fluid resistance.
(2) Simple structure, low volume, light weight.
(3) Reliable shut-off. It has two sealing faces. The materials for sealing faces of the ball valve are various types of plastics which have good sealing performance and can realize complete sealing. They have also been widely applied in vacuum systems.
(4) Convenient operation, fast opening and closing. Just turn for 90° from full opening to full closing. It is convenient to make remote control.
(5) Convenient maintenance. The ball valve structure is simple. The seal ring is generally moveable, and it is convenient to disassemble and replace it.
(6) During full opening or full closing, the sealing faces of ball and seat are isolated from media. When media pass, no erosion of the ball valve sealing face will be caused.
(7) Wide application range. Nominal diameter ranges from several millimeters to several meters. The valves can be applied under high vacuum and high pressure.
(8) As the ball valve has wiping performance during the opening and closing process, it can be used in media that contain suspended solid particles.

主要零部件材料 Materials for main parts

序号 No.	名称 Name	材料 Material
1	阀 盖 Bonnet	WCB/CF8/CF8M
2	螺 栓 Bolt	35/304
3	阀 体 Body	WCB/CF8/CF8M
4	压 盖 Gland	45/304
5	螺 母 Nut	45/304
6	弹 垫 Spring washer	45/304
7	阀 杆 Stem	420/304/316
8	手 柄 Handle	45/304
9	填 料 Packing	PTFE/PPL
10	球 体 Ball	420/304/316
11	阀 座 Seat	PTFE/PPL

Thread connection ball valve

螺纹连接球阀

执行标准

1、设计和制造：GB/T 12237-2007；API 608
2、检验和试压：GB/T 13927-2008；API 598
3、螺纹连接：GB/T 7306；GB/T 7307；ANSI B1.20.1
4、结构长度(定制)：GB/T 12221-2005；ASME B16.10

Executed standards

1、Design and manufacturing：GB/T 12237-2007；API 608
2、Inspection and pressure testing：GB/T 13927-2008；API 598
3、Thread connection：GB/T 7306；GB/T 7307；ANSI B1.20.1
4、Face-to-face dimensions(customized)：GB/T 12221-2005；ASME B16.10

性能规范 Performance specification

公称压力(PN) Nominal pressure	常温最大工作压力 Maximum working pressure at normal temperature	壳体试验压力 Shell test pressure	气密封试验压力 Gas seal test pressure	高压密封试验压力 High pressure seal test pressure
1.6	1.6	2.4	0.6	1.76
2.5	2.5	3.75	0.6	2.75
4.0	4.0	6.0	0.6	4.4
6.4	6.4	9.6	0.6	7.04
Class150	2.0	3.0	0.6	2.2
Class300	5.0	7.5	0.6	5.5

适用范围 Application range

壳体材料 Shell material	阀座材料 Seat material	适用温度 Applicable temperature	适用介质 Applicable media
碳钢C型 Carbon steel C type	聚四氟乙烯PTFE	-29～150℃	水,蒸汽,油品等 Water, steam, oil, etc.
	对位聚苯PPL	-29～280℃	
铬镍钛锰钢型 Cr-Ni-Ti-Mn steel type	聚四氟乙烯PTFE	-40～150℃	水,蒸汽,油品等 Water, steam, oil, etc.
	对位聚苯PPL	-40～280℃	
铬镍钛钢P型 Cr-Ni-Ti steel P type	聚四氟乙烯PTFE	-40～150℃	硝酸类腐蚀性介质 Nitric acid corrosive media
	对位聚苯PPL	-40～280℃	
铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type	聚四氟乙烯PTFE	-40～150℃	醋酸类腐蚀性介质 Acetic acid corrosive media
	对位聚苯PPL	-40～280℃	

主要零件材料 Materials for main parts

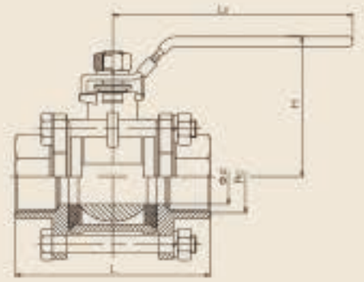
部件 Part \ 型式 Type	标准类型 Standard type	碳钢C型 Carbon steel C type	铬镍钛锰钢型 Cr-Ni-Ti-Mn steel type	铬镍钛钢P型 Cr-Ni-Ti steel P type	铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type
阀体、阀盖 Body, bonnet	GB	WCB	1Cr17Mn6Ni5N	ZG0Cr18Ni9	ZG0Cr17Ni12Mo2
	ASME	WCB	201	CF8	CF8M
球体 Ball	GB	2Cr13	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr17Ni12Mo2
	ASME	420	201	304	316
阀杆 Stem	GB	2Cr13	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr17Ni12Mo2
	ASME	420	201	304	316
阀座 Seat	GB	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL
	ASME	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL
填料 Packing	GB	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨
	ASME	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨
螺栓 Bolt	GB	35	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr18Ni9
	ASME	A193 B7	201	A320-B8	A320-B8
螺母 Nut	GB	45	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr18Ni9
	ASME	A194 2H	201	A194-8	A194-8

Three-piece female thread ball valve

三片式内螺纹球阀

TQ11FS-16~64





公称压力Nominal pressure: 1.6MPa

Size/DN	Rc	L	d	L1	H			
8	1/4"	60	10.5	85	43			
10	3/8"	60	10.5	85	43			
15	1/2"	68	15	95	52			
20	3/4"	76	20	105	57			
25	1"	87	25	120	68			
32	1 1/4"	102	32	135	81			
40	2"	114	38	155	90			
50	1 1/2"	133	50	170	97			
65	2 1/2"	164	65	200	118			
80	3"	205	80	215	130			
100	4"	251	100	240	166			

公称压力Nominal pressure: 2.5~6.4MPa

Size/DN	Rc	L	d	L1	H			
8	1/4"	67	10.5	100	45			
10	3/8"	67	10.5	100	45			
15	1/2"	73	15	110	54			
20	3/4"	84	20	125	60			
25	1"	91	25	145	70			
32	1 1/4"	112	32	155	82			
40	1 1/2"	119	38	170	90			
50	2"	146	50	185	100			
65	2 1/2"	180	65	220	122			
80	3"	210	80	240	133			
100	4"	260	100	280	170			

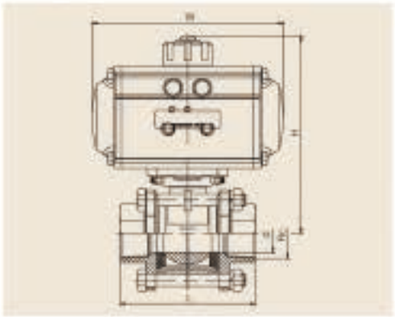
Actuator ball valve

执行器球阀



三片式气动球阀

Three-piece pneumatic ball valve

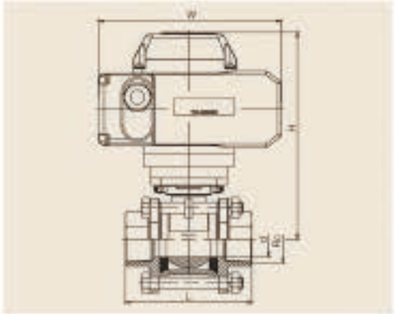


TQ6s11FG-16~64

Size/DN	Rc	L	d	W	H
15	1/2"	73	15	144	130
20	3/4"	84	20	144	133
25	1"	91	25	159	160
32	1¼"	112	32	159	164
40	1½"	119	38	221	187
50	2"	146	50	248	214
65	2½"	180	65	271	242
80	3"	210	80	315	281
100	4"	260	100	345	318

三片式电动球阀

Three-piece electric ball valve



TQ9s11FG-16-64

Size/DN	Rc	L	d	W	H
15	1/2"	73	15	162	166
20	3/4"	84	20	162	168
25	1"	91	25	162	179
32	1¼"	112	32	162	183
40	1½"	119	38	207	217
50	2"	146	50	207	227
65	2½"	180	65	258	289
80	3"	210	80	258	300
100	4"	260	100	258	325

Two-piece female thread ball valve

二片式内螺纹球阀

TQ11FE-16~64



公称压力Nominal pressure: 1.6MPa

Size/DN	Rc	L	d	L₀	H
8	1/4"	52	10.5	85	45
10	3/8"	52	10.5	85	45
15	1/2"	56	15	95	48
20	3/4"	61	20	105	50
25	1"	72	25	120	60
32	1¼"	84	32	135	72
40	1½"	96	38	155	82
50	2"	108	49	170	90
65	2½"	150	65	200	110
80	3"	172	80	215	125
100	4"	205	100	240	150

公称压力Nominal pressure: PN2.5-6.4MPa

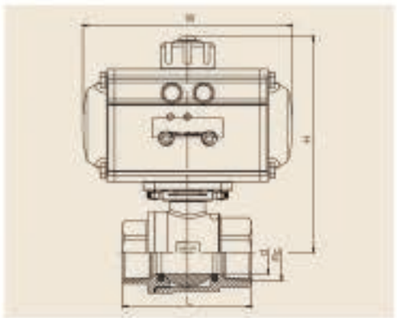
Size/DN	Rc	L	d	L₀	H
8	1/4"	54	10.5	100	45
10	3/8"	54	10.5	100	45
15	1/2"	62	15	110	55
20	3/4"	73	20	125	58
25	1"	82	25	145	68
32	1¼"	97	32	155	75
40	1½"	105	38	170	86
50	2"	120	49	185	100
65	2½"	163	65	220	122
80	3"	189	80	240	133
100	4"	226	100	280	160

Actuator ball valve

执行器球阀



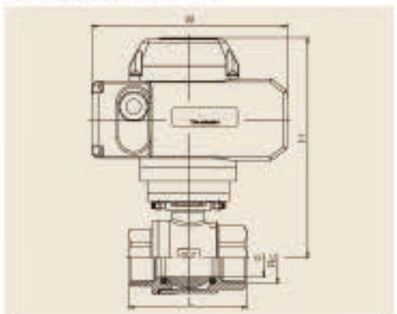
二片式气动球阀
Two-piece pneumatic ball valve



TQ6s11FD-16~64

Size/DN	Rc	L	d	W	H
15	1/2"	62	15	144	130
20	3/4"	73	20	144	132
25	1"	82	25	159	160
32	1 ¼"	97	32	159	164
40	1 ½"	106	38	221	188
50	2"	122	49	248	213
65	2 ½"	163	65	271	242
80	3"	189	80	315	281
100	4"	226	100	345	318

二片式电动球阀
Two-piece electric ball valve



TQ9s11FD-16~64

Size/DN	Rc	L	d	W	H
15	1/2"	62	15	162	166
20	3/4"	73	20	162	168
25	1"	82	25	162	179
32	1 ¼"	97	32	162	183
40	1 ½"	106	38	207	217
50	2"	122	49	207	227
65	2 ½"	163	65	258	289
80	3"	189	80	258	300
100	4"	226	100	258	325

One-piece female thread ball valve

一片式内螺纹球阀

TQ11FY-16~64

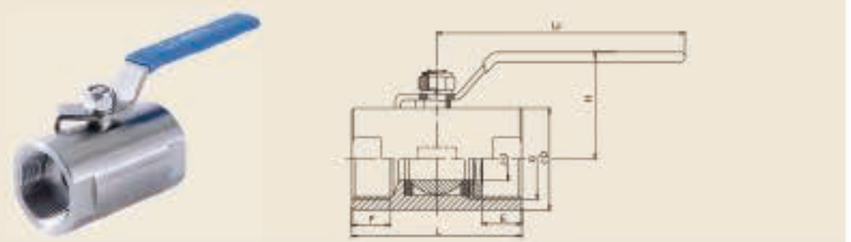


Size/DN	Rc	L	d	L₀	H			
8	1/4"	40	5	75	30			
10	3/8"	45	7	85	33			
15	1/2"	56	9.2	95	40			
20	3/4"	60	12.5	105	45			
25	1"	70	15	125	47			
32	1 ¼"	79	20	125	50			
40	1 ½"	85	25	150	55			
50	2"	101	32	150	60			

Guangdong style female thread ball valve

广式内螺纹球阀

TQ11F-16~64



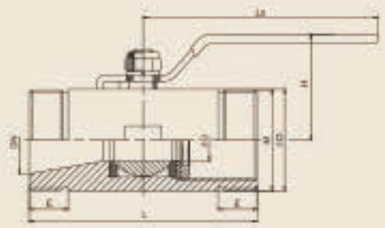
Size/DN	G	L	F	E	D	d	L₀	H
8	1/4"	48	13.8	13.5	22.5	6	70	27
10	3/8"	55	15.5	15	26.5	8	82	35
15	1/2"	60	16.5	15.5	32	10.5	87	38
20	3/4"	67	17.5	16.5	38	13	95	45
25	1"	73	18	17.5	43.8	17	105	47
32	1 ¼"	89	20.5	20.5	53.5	22	130	56
40	1 ½"	97	21	21	60.5	25	145	63
50	2"	108	22	22.5	72.8	32	155	72
65	2 ½"	136	27	29.5	90	40	185	87
80	3"	154	31	34.5	106	50	205	95
100	4"	192	37	39.5	132	65	225	108

Guangdong style male thread ball valve

广式外螺纹球阀

TQ21F-16~64





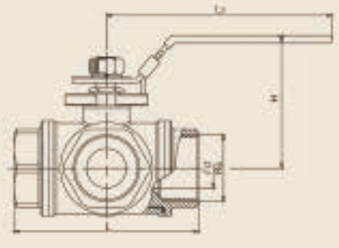
Size/DN	L	E	D	M	d	L₀	H
8	65	13	22.5	20x1.5	6	70	27
10	80	15	26.5	24x1.5	8	82	35
15	85	15	32	30x2	10.5	87	38
20	90	18	38	36x2	13	95	45
25	100	19	44	42x2	17	105	47
32	120	21	53.5	52x2	22	130	56
40	135	23	60.5	60x3	25	145	63
50	140	24	73	72x3	32	156	72

Three-way female thread ball valve

三通内螺纹球阀

TQ $^{14FL}_{15FT}$ -16~64





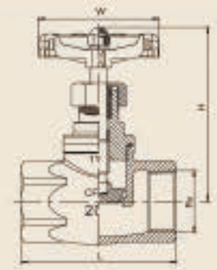
Size/DN	Rc	L	A	d	L₀	H		
8	1/4"	73	36.5	11.7	125	64		
10	3/8"	73	36.5	11.7	125	64		
15	1/2"	76	38	12.5	125	64		
20	3/4"	85	42.5	15	125	68		
25	1"	102	51	20	150	80		
32	1¼"	116	58	25	165	84		
40	1½"	125	62.5	32	193	100		
50	2"	146	73	38	193	108		

Female thread globe valve

内螺纹截止阀

TJ11W-16~64





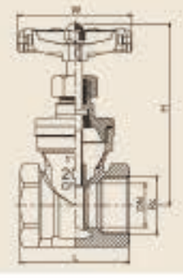
Size/DN	Rc	L	H	W	
8	1/4"	65	85	70	
10	3/8"	65	85	70	
15	1/2"	69	90	70	
20	3/4"	82	97	70	
25	1"	88	106	80	
32	1¼"	102	118	90	
40	1½"	120	133	100	
50	2"	138	149	100	
65	2½"	156	187	120	
80	3"	178	215	140	

Female thread gate valve

内螺纹闸阀

TZ15W-16~64





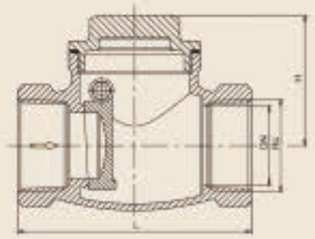
Size/DN	Rc	L	H	W	
15	1/2"	55	92	70	
20	3/4"	60	100	70	
25	1"	66	113	80	
32	1¼"	76	128	90	
40	1½"	86	147	100	
50	2"	96	50	100	
65	2½"	118	65	120	
80	3"	122	80	140	

Female thread swing check valve

内螺纹旋启式止回阀

TH14W-16~64





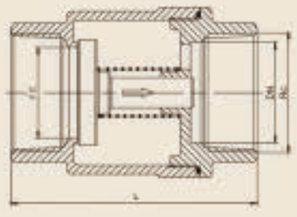
Size/DN	Rc	L	H		
15	1/2"	64	43		
20	3/4"	80	53		
25	1"	90	60		
32	1 ¼"	104	62		
40	1 ½"	119	75		
50	2"	140	80		
65	2 ½"	165	90		
80	3"	186	104		

Female thread axial flow check valve

内螺纹轴式止回阀

TH12W-16~64





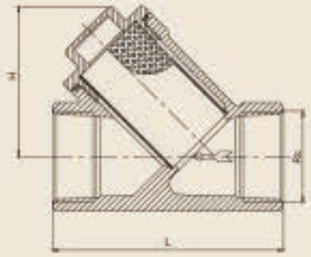
Size/DN	Rc	L	H		
15	1/2"	13	67		
20	3/4"	18	75		
25	1"	23	82		
32	1 ¼"	30	93		
40	1 ½"	38	98		
50	2"	47	108		
65	2 ½"	60	137		
80	3"	75	155		

Y type female thread filter

Y型内螺纹过滤器

TY11W-16~64





Size/DN	Rc	L	H		
6	1/4"	63	46		
10	3/8"	63	46		
15	1/2"	65	48		
20	3/4"	79	55		
25	1"	90	68		
32	1 ¼"	105	76		
40	1 ½"	118	85		
50	2"	138	102		
65	2 ½"	170	115		

执行标准

1、设计和制造：GB/T 12237-2007
2、检验和试压：GB/T 13927-2008
3、焊接连接：GB/T 1224-1989；JB/T 3595；DIN 11850；ISO 2037
4、结构长度(定制)：GB/T 12221-2005

Executed standards

1、Design and manufacturing：GB/T 12237-2007
2、Inspection and pressure testing：GB/T 13927-2008
3、Welded connection：GB/T 1224-1989；JB/T 3595；DIN 11850；ISO 2037
4、Face-to-face dimensions(customized)：GB/T 12221-2005

性能规范 Performance specification

公称压力(PN) Nominal pressure	常温最大工作压力 Maximum working pressure at normal temperature	壳体试验压力 Shell test pressure	气密封试验压力 Gas seal test pressure	高压密封试验压力 High pressure seal test pressure
1.6	1.6	2.4	0.6	1.76
2.5	2.5	3.75	0.6	2.75
4.0	4.0	6.0	0.6	4.4
6.4	6.4	9.6	0.6	7.04

适用范围 Application range

壳体材料 Shell material	阀座材料 Seat material	适用温度 Applicable temperature	适用介质 Applicable media
碳钢C型 Carbon steel C type	聚四氟乙烯PTFE	-29～150°C	水,蒸汽,油品等 Water, steam, oil, etc.
	对位聚苯PPL	-29～260°C	
铬镍钛锰钢型 Cr-Ni-Ti-Mn steel type	聚四氟乙烯PTFE	-40～150°C	
	对位聚苯PPL	-40～260°C	硝酸类腐蚀性介质 Nitric acid corrosive media
铬镍钛钢P型 Cr-Ni-Ti steel P type	聚四氟乙烯PTFE	-40～150°C	
	对位聚苯PPL	-40～260°C	
铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type	聚四氟乙烯PTFE	-40～150°C	醋酸类腐蚀性介质 Acetic acid corrosive media
	对位聚苯PPL	-40～260°C	

主要零件材料 Materials for main parts

部件 Part \ 型式 Type	标准类型 Standard type	碳钢C型 Carbon steel C type	铬镍钛锰钢型 Cr-Ni-Ti-Mn steel type	铬镍钛钢P型 Cr-Ni-Ti steel P type	铬镍钼钛钢R型 Cr-Ni-Mo-Ti steel R type
阀体、阀盖 Body, bonnet	GB	WCB	1Cr17Mn6Ni5N	ZG0Cr18Ni9	ZG0Cr17Ni12Mo2
	ASME	WCB	201	CF8	CF8M
球体 Ball	GB	2Cr13	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr17Ni12Mo2
	ASME	420	201	304	316
阀杆 Stem	GB	2Cr13	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr17Ni12Mo2
	ASME	420	201	304	316
阀座 Seat	GB	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL
	ASME	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL
填料 Packing	GB	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨
	ASME	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨	PTFE/PPL/柔性石墨
螺栓 Bolt	GB	35	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr18Ni9
	ASME	A193 B7	201	A320-B8	A320-B8
螺母 Nut	GB	45	1Cr17Mn6Ni5N	0Cr18Ni9	0Cr18Ni9
	ASME	A194 2H	201	A194-8	A194-8

SDF 品质 成就未来
QUALITY, ACCOMPLISHING THE FUTURE

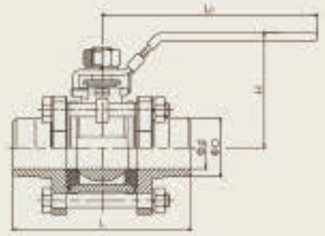
焊接/卡箍系列
WELDED/CLAMP SERIES

Three-piece welded ball valve

三片式焊接球阀

TQ61FS-16~64

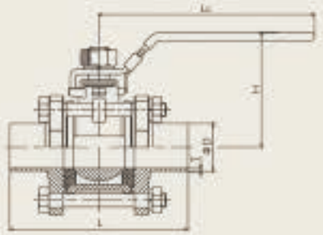




Size/DN	L	D	d	L₀	H
10	75	18	10.5	100	45
15	85	22	15	110	54
20	95	28	20	125	60
25	105	34	25	145	70
32	120	42	32	155	82
40	130	48	38	170	90
50	155	61	50	185	100
65	185	76	65	220	122
80	215	91	80	240	133
100	260	114	100	280	170

TQ61FW-10~25





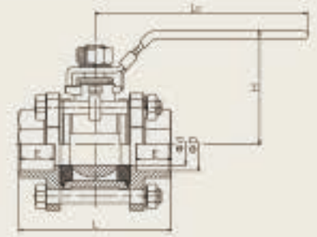
Size/DN	L	D		T	L₀	H
		1 series	2 series			
10	75	12	12.7	1.5	100	45
15	85	18	19.1	1.5	110	54
20	95	22	25.4	1.5	125	60
25	105	28	31.8	1.5	145	70
32	120	34	38.1	1.5	155	82
40	130	40	45	1.5	170	90
50	155	52	50.8 57	1.5	185	100
65	185	70	76.2	2	220	122
80	215	85	88.9	2	240	133
100	260	104	101.6 108	2	280	170

Three-piece socket welding ball valve

三片式插焊球阀

TQ61FC-16~64





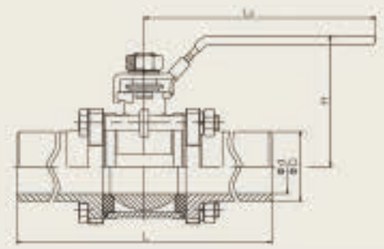
Size/DN	L	D		d	E	L₀	H
		1 series	2 series				
10	67	17.5	14.3	10.5	10	100	45
15	73	21.8	18.5	15	19	110	54
20	84	27.4	25.5	20	21	125	60
25	91	34.2	32.5	25	21	145	70
32	112	42.9	38.5	32	25	155	82
40	119	48.8	45.5	38	27	170	90
50	146	60.8	57.5	50	29	185	100
65	180	76.6	77	65	38	220	122
80	210	89.6	90	80	39	240	133
100	260	115.0	109	100	53	280	170

Three-piece extended welded ball valve

三片式加长焊接球阀

TQ61FJ-16~64





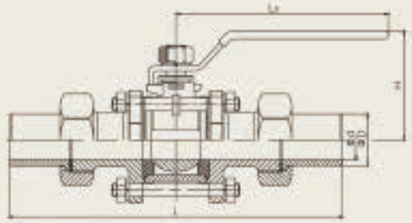
Size/DN	L	D	d	L₀	H	
10	135	18	10	100	45	
15	150	22	15	110	54	
20	165	28	20	125	60	
25	180	34	25	145	70	
32	210	42	32	155	82	
40	220	48	38	170	90	
50	260	61	50	185	100	
65	300	76	65	220	122	
80	335	91	80	240	133	
100	380	114	100	280	170	

Three-piece ball valve with connection pipe

三片式带接管球阀

TQ61FM-16~64





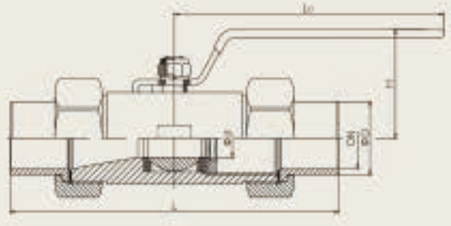
Size/DN	L	D	d	L₀	H
10	150	17	10	100	45
15	170	22	15	110	54
20	185	27	20	125	60
25	200	32	25	145	70
32	225	40	32	155	82
40	240	48	40	170	90
50	268	60	50	185	100

Guangdong style ball valve with connection pipe

广式带接管球阀

TQ61F-16~64





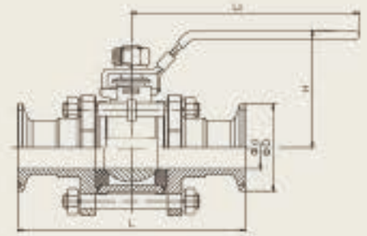
Size/DN	L	D	d	L₀	H
8	115	14	6	70	27
10	135	17	8	82	35
15	140	22	10.5	87	38
20	155	27	13	95	45
25	170	32	17	105	47
32	195	40	22	130	56
40	215	48	25	145	63
50	225	60	32	155	72

Three-piece ferrule ball valve

三片式卡箍球阀

TQ81FS-10~25





DIN-TQ81FS

Size/DN	L	D	d	L₀	H
15	113	34	15	110	54
20	125	34	19	125	60
25	132	50.5	25	145	70
32	152	50.5	31	155	82
40	160	50.5	37	170	90
50	187	64	49	185	100
65	230	91	66	220	122
80	260	106	81	240	133
100	300	119	100	280	170

ISO-TQ81FS

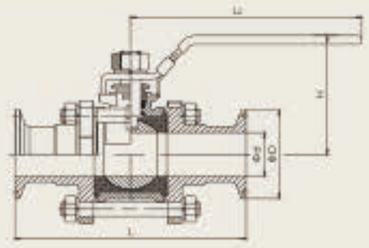
Size/in	L	D	d	L₀	H
3/4"	113	25.4	16.1	110	54
1"	125	50.5	22.4	125	60
1.25"	132	50.5	28.8	145	70
1.5"	152	50.5	35.1	155	82
2"	160	64	47.8	170	100
2.5"	187	77.5	59.5	185	122
3"	230	91	72.2	220	122
3.5"	260	106	84.9	240	133
4"	300	119	97.6	280	170

Ferrule dead-corner-free ball valve

卡箍无死角球阀

TQ81FW-10~25





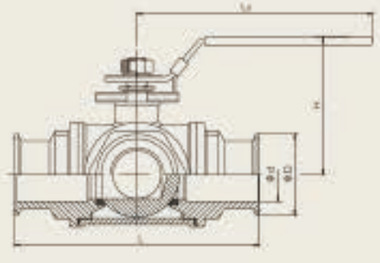
Size/DN	L	D	d	L₀	H	
15	113	34	15	110	54	
20	125	34	19	125	60	
25	132	50.5	25	145	70	
32	152	50.5	31	155	82	
40	160	50.5	37	170	90	
50	187	64	49	185	100	
65	230	91	66	220	122	
80	260	106	81	240	133	
100	300	119	100	280	170	

Three-way ferrule ball valve

三通卡箍球阀

TQ 84FL 85FT -10/16





Size/DN	L	A	D	d	L₀	H
10	110	55	34	10	110	64
15	110	55	34	15	110	64
20	120	60	34	19	125	65
25	140	70	50.5	25	145	80
32	160	80	50.5	31	155	84
40	170	85	50.5	37	170	100
50	192	96	64	49	185	108

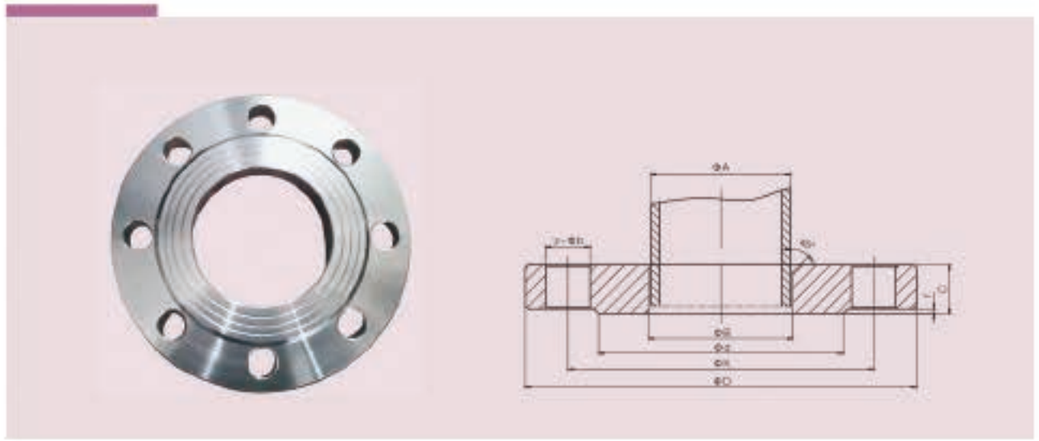
SDF 品质 成就未来

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4

钢制管法兰

STEEL PIPE FLANGE



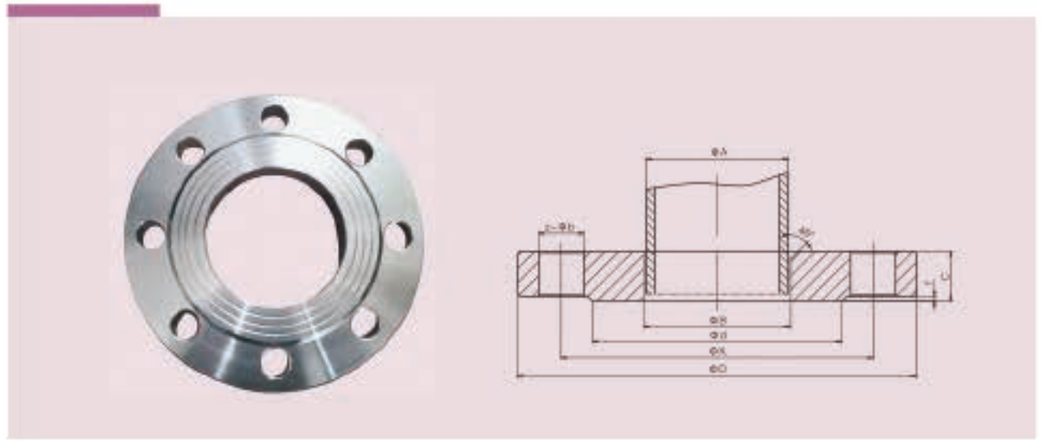
公称压力Nominal pressure: PN0.6Mpa

公称压力 DN/mm	管子外径ΦA Pipe outside diameter		连接尺寸Connection dimensions /mm					法兰厚度 Flange thickness C	法兰内径 Flange inner diameter B		法兰理论重量 (Kg) Flange theoretical weight
			法兰外径ΦD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	密封面尺寸 Sealing face size		螺栓孔直径与数量Φ n-Φb Bolt hole diameter and quantity				
	1 series	2 series			d	f			1 series	2 series	
10	17.2	14	75	50	32	2	4–Φ12	12	18	15	0.36
15	21.3	18	80	55	40	2	4–Φ12	12	22.1	19	0.41
20	26.9	25	90	65	50	2	4–Φ12	14	27.7	26	0.59
25	33.7	32	100	75	60	2	4–Φ12	14	34.5	33	0.67
32	42.4	38	120	90	70	2	4–Φ14	16	43.1	39	1.16
40	48.3	45	130	100	80	2	4–Φ14	16	49.1	46	1.32
50	60.3	57	140	110	90	3	4–Φ14	16	61.1	58	1.48
65	76.1	76 | 73	160	130	110	3	4–Φ14	16	77.1	78 | 75	1.76
80	88.9	89	185	150	125	3	4–Φ18	18	89.9	91	2.65
100	114.3	108	205	170	145	3	4–Φ18	18	115.3	110	3.28
125	139.7	133	235	200	175	3	8–Φ18	20	140.7	135	3.94
150	168.8	159	260	225	200	3	8–Φ18	20	169.3	161	4.98
200	219.1	219	315	280	255	3	8–Φ18	22	220.1	222	6.76

公称压力Nominal pressure: PN1.0Mpa

公称压力 DN/mm	管子外径ΦA Pipe outside diameter		连接尺寸Connection dimensions /mm					法兰厚度 Flange thickness C	法兰内径 Flange inner diameter B		法兰理论重量 (Kg) Flange theoretical weight
			法兰外径ΦD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	密封面尺寸 Sealing face size		螺栓孔直径与数量Φ n-Φb Bolt hole diameter and quantity				
	1 series	2 series			d	f			1 series	2 series	
10	17.2	14	90	60	40	2	4–Φ14	12	18	15	0.46
15	21.3	18	95	65	45	2	4–Φ14	12	22.1	19	0.51
20	26.9	25	105	75	55	2	4–Φ14	14	27.7	26	0.75
25	33.7	32	115	85	65	2	4–Φ14	14	34.5	33	0.89
32	42.4	38	135	100	76	2	4–Φ18	16	43.1	39	1.40
40	48.3	45	145	110	85	3	4–Φ18	18	49.1	46	1.71
50	60.3	57	160	125	100	3	4–Φ18	18	61.1	58	2.09
65	76.1	76 | 73	180	145	120	3	4–Φ18	20	77.1	78 | 75	2.64
80	88.9	89	195	160	135	3	8–Φ18	20	89.9	91	3.24
100	114.3	108	215	180	155	3	8–Φ18	22	115.3	110	4.01
125	139.7	133	245	210	185	3	8–Φ18	22	140.7	135	5.21
150	168.8	159	280	240	210	3	8–Φ22	24	169.3	161	6.67
200	219.1	219	335	295	265	3	8–Φ22	24	220.1	222	8.24

Plate type flat welding steel pipe flange
板式平焊钢制管法兰



公称压力Nominal pressure: PN1.6Mpa

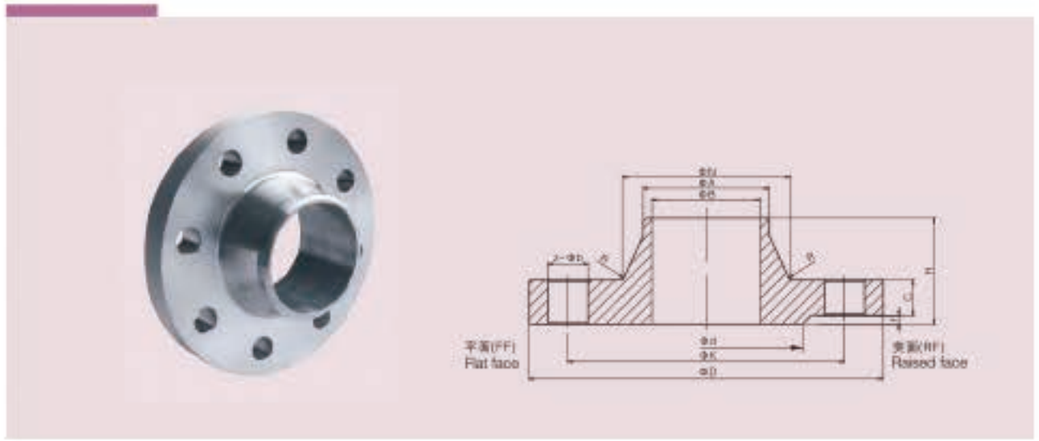
公称压力 DN/mm	管子外径ΦA Pipe outside diameter		连接尺寸Connection dimensions /mm					法兰厚度 Flange thickness C	法兰内径 Flange inner diameter B		法兰理论重量 (Kg) Flange theoretical weight
			法兰外径ΦD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	密封面尺寸 Sealing face size		螺栓孔直径与数量Φ n-Φb Bolt hole diameter and quantity				
	1 series	2 series			d	f			1 series	2 series	
10	17.2	14	90	60	40	2	4–Φ14	14	18	15	0.55
15	21.3	18	95	65	45	2	4–Φ14	14	22.1	19	0.71
20	26.9	25	105	75	55	2	4–Φ14	16	27.7	26	0.87
25	33.7	32	115	85	65	2	4–Φ14	16	34.5	33	1.12
32	42.4	38	135	100	76	2	4–Φ18	18	43.1	39	1.60
40	48.3	45	145	110	85	3	4–Φ18	18	49.1	46	1.96
50	60.3	57	160	125	100	3	4–Φ18	20	61.1	58	2.52
65	76.1	76 | 73	180	145	120	3	4–Φ18	20	77.1	78 | 75	3.31
80	88.9	89	195	160	135	3	8–Φ18	22	89.9	91	3.63
100	114.3	108	215	180	155	3	8–Φ18	22	115.3	110	4.60
125	139.7	133	245	210	185	3	8–Φ18	24	140.7	135	5.87
150	168.3	159	280	240	210	3	8–Φ22	24	169.3	161	7.61
200	219.1	219	335	295	265	3	12–Φ22	26	220.1	222	9.72

公称压力Nominal pressure: PN2.5Mpa

公称压力 DN/mm	管子外径ΦA Pipe outside diameter		连接尺寸Connection dimensions /mm					法兰厚度 Flange thickness C	法兰内径 Flange inner diameter B		法兰理论重量 (Kg) Flange theoretical weight
			法兰外径ΦD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	密封面尺寸 Sealing face size		螺栓孔直径与数量Φ n-Φb Bolt hole diameter and quantity				
	1 series	2 series			d	f			1 series	2 series	
10	17.2	14	90	60	40	2	4–Φ14	14	18	15	0.55
15	21.3	18	95	65	45	2	4–Φ14	14	22.1	19	0.71
20	26.9	25	105	75	55	2	4–Φ14	16	27.7	26	0.87
25	33.7	32	115	85	65	2	4–Φ14	16	34.5	33	1.12
32	42.4	38	135	100	76	2	4–Φ18	18	43.1	39	1.60
40	48.3	45	145	110	85	3	4–Φ18	18	49.1	46	1.96
50	60.3	57	160	125	100	3	4–Φ18	20	61.1	58	2.52
65	76.1	76 | 73	180	145	120	3	8–Φ18	22	77.1	78 | 75	3.22
80	88.9	89	195	160	135	3	8–Φ18	24	89.9	91	4.36
100	114.3	108	230	190	160	3	8–Φ22	26	115.3	110	6.12
125	139.7	133	270	220	188	3	8–Φ26	28	140.7	135	8.26
150	168.3	159	300	250	218	3	8–Φ26	30	169.3	161	10.40
200	219.1	219	360	310	278	3	12–Φ26	32	220.1	222	14.50

Steel pipe welding neck flange

对焊钢制管法兰



公称压力Nominal pressure: PN1.0Mpa

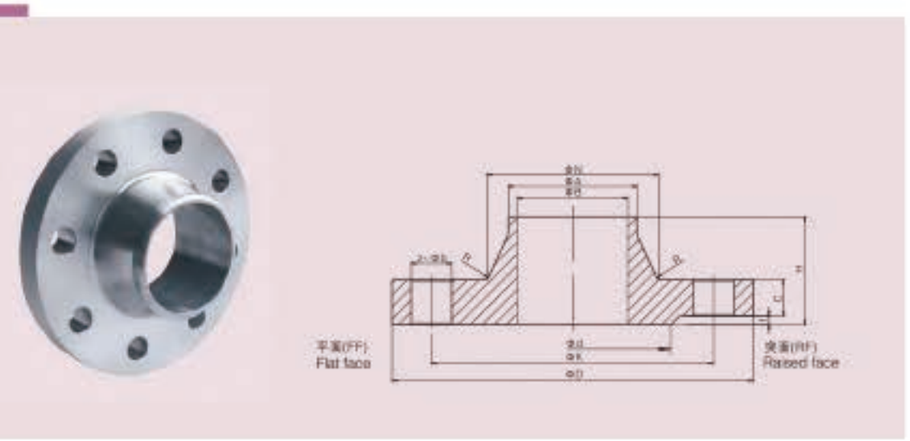
公称压力 DN/mm	法兰焊端外径（管子外径） Flange welded end outside diameter A	连接尺寸Connection dimensions /mm 法兰外径ΦD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	螺栓孔直径与数量Φ n-Φb Bolt hole diameter and quantity	密封面尺寸 Sealing face size d	f	法兰厚度 Flange thickness C	法兰高度 Flange height H	颈部直径 Neck diameter N	圆角r半径 Round radius R	法兰内径 Φ Flange inside diameter B	法兰理论Φ重量 (Kg) Flange theoretical weight
10	14	90	60	4–Φ14	40	2	12	35	26	4	8	0.52
15	18	95	65	4–Φ14	45	2	12	35	30	4	12	0.59
20	25	105	75	4–Φ14	55	2	14	38	38	4	18	0.88
25	32	115	85	4–Φ14	65	2	14	40	45	4	25	1.06
32	38	135	100	4–Φ18	76	2	16	42	55	4	31	1.72
40	45	145	110	4–Φ18	85	3	16	45	64	4	38	1.90
50	57	160	125	4–Φ18	100	3	18	45	76	5	49	2.63
65	76 | 73	180	145	4–Φ18	120	3	18	48	94	5	66	3.26
80	89	195	160	8–Φ18	135	3	20	50	110	5	78	4.22
100	108	215	180	8–Φ18	155	3	20	52	130	5	96	4.91
125	133	245	210	8–Φ18	185	3	22	60	156	6	121	6.91
150	159	280	240	8–Φ22	210	3	24	60	180	6	146	9.13
200	219	335	295	8–Φ22	265	3	24	62	240	6	202	11.78

公称压力Nominal pressure: PN1.6Mpa

公称压力 DN/mm	法兰焊端外径（管子外径） Flange welded end outside diameter A	连接尺寸Connection dimensions /mm 法兰外径ΦD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	螺栓孔直径与数量Φ n-Φb Bolt hole diameter and quantity	密封面尺寸 Sealing face size d	f	法兰厚度 Flange thickness C	法兰高度 Flange height H	颈部直径 Neck diameter N	圆角r半径 Round radius R	法兰内径 Φ Flange inside diameter B	法兰理论Φ重量 (Kg) Flange theoretical weight
10	14	90	60	4–Φ14	40	2	14	35	26	4	8	0.58
15	18	95	65	4–Φ14	45	2	14	35	30	4	12	0.65
20	25	105	75	4–Φ14	55	2	16	38	38	4	18	1.02
25	32	115	85	4–Φ14	65	2	16	40	45	4	25	1.21
32	38	135	100	4–Φ18	78	2	18	42	55	4	31	2.02
40	45	145	110	4–Φ18	85	3	18	45	64	4	38	2.33
50	57	160	125	4–Φ18	100	3	20	48	76	5	49	3.08
65	76 | 73	180	145	4–Φ18	120	3	20	50	94	5	66	3.73
80	89	195	160	8–Φ18	135	3	20	52	110	5	78	4.11
100	108	215	180	8–Φ18	155	3	22	52	130	5	96	5.36
125	133	245	210	8–Φ18	185	3	22	60	156	6	121	6.91
150	159	280	240	8–Φ22	210	3	24	60	180	6	146	9.13
200	219	335	295	12–Φ22	265	3	24	62	240	6	202	11.78

Steel pipe welding neck flange with raised face

凸面对焊钢制管法兰



公称压力Nominal pressure: PN2.5Mpa

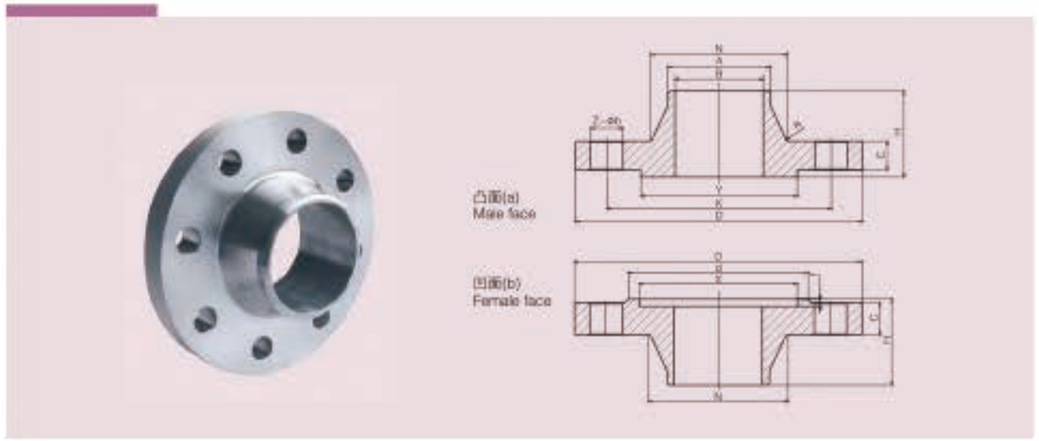
公称压力 DN/mm	法兰焊端外径（管子外径） Flange welded end outside diameter A	连接尺寸Connection dimensions /mm 法兰外径ΦD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	螺栓孔直径与数量Φ n-Φb Bolt hole diameter and quantity	密封面尺寸 Sealing face size d	f	法兰厚度 Flange thickness C	法兰高度 Flange height H	颈部直径 Neck diameter N	圆角r半径 Round radius R	法兰内径 Φ Flange inside diameter B	法兰理论Φ重量 (Kg) Flange theoretical weight
10	14	90	60	4–Φ14	40	2	14	35	26	4	8	0.66
15	18	95	65	4–Φ14	45	2	14	35	30	4	12	0.75
20	25	105	75	4–Φ14	55	2	16	38	38	4	18	0.97
25	32	115	85	4–Φ14	65	2	16	40	45	4	25	1.18
32	38	135	100	4–Φ18	76	2	18	42	55	4	31	1.95
40	45	145	110	4–Φ18	85	3	18	45	64	4	38	2.17
50	57	160	125	4–Φ18	100	3	20	48	76	5	49	2.91
65	76 | 73	180	145	8–Φ18	120	3	22	52	94	5	66	3.87
80	89	195	160	8–Φ18	135	3	22	58	110	5	78	4.57
100	108	230	190	8–Φ22	160	3	24	62	130	5	96	6.46
125	133	270	220	8–Φ26	188	3	26	68	156	6	121	9.42
150	159	300	250	8–Φ26	218	3	28	72	180	6	146	12.18
200	219	360	310	12–Φ26	278	3	30	80	240	6	202	17.39

公称压力Nominal pressure: PN4.0Mpa

公称压力 DN/mm	法兰焊端外径（管子外径） Flange welded end outside diameter A	连接尺寸Connection dimensions /mm 法兰外径ΦD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	螺栓孔直径与数量Φ n-Φb Bolt hole diameter and quantity	密封面尺寸 Sealing face size d	f	法兰厚度 Flange thickness C	法兰高度 Flange height H	颈部直径 Neck diameter N	圆角r半径 Round radius R	法兰内径 Φ Flange inside diameter B	法兰理论Φ重量 (Kg) Flange theoretical weight
10	14	90	60	4–Φ14	40	2	14	35	26	4	8	0.66
15	18	95	65	4–Φ14	45	2	14	35	30	5	12	0.75
20	25	105	75	4–Φ14	55	2	16	38	38	5	18	0.97
25	32	115	85	4–Φ14	65	2	16	40	45	5	25	1.18
32	38	135	100	4–Φ18	76	2	18	42	56	5	31	1.95
40	45	145	110	4–Φ18	85	3	18	45	64	5	38	2.17
50	57	160	125	4–Φ18	100	3	20	48	76	5	48	2.91
65	76 | 73	180	145	8–Φ18	120	3	22	52	96	6	66	3.87
80	89	195	160	8–Φ18	135	3	24	58	112	6	78	5.02
100	108	230	190	8–Φ22	160	3	26	65	138	6	96	7.63
125	133	270	220	8–Φ26	188	3	28	68	160	8	120	10.13
150	159	300	250	8–Φ26	218	3	30	72	188	8	145	12.03
200	219	375	320	12–Φ30	282	3	34	88	250	10	200	21.40

Steel pipe welding neck flange with male and female face

凹凸面对焊钢制管法兰



公称压力Nominal pressure: PN4.0Mpa

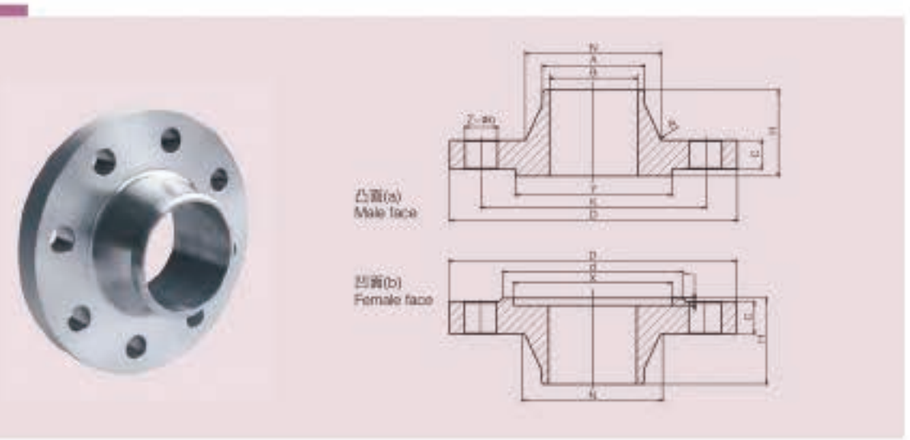
公称压力 DN/mm	法兰焊端外径(管子外径) Flange welded end outside diameter A	连接尺寸Connection dimensions /mm 法兰外径PD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	螺栓孔直径与数量ΦP z-Φb Bolt hole diameter and quantity	密封面尺寸/mm Sealing face size d	x	y	t	法兰厚度 Flange thickness C	法兰高度 Flange height H	颈部直径 Neck diameter N	圆角\P半径 Round radius R	法兰内径\P Flange inside diameter B	法兰理论\P重量(Kg) Flange theoretical weight a	b
10	14	90	60	4–Φ14	40	35	34	4	14	35	26	4	8	0.72	0.63
15	18	95	65	4–Φ14	45	40	39	4	16	35	30	5	12	0.87	0.77
20	25	105	75	4–Φ14	55	51	50	4	16	38	38	5	18	1.09	0.97
25	32	115	85	4–Φ14	65	58	57	4	16	40	45	5	25	1.31	1.18
32	38	135	100	4–Φ18	78	66	65	4	18	45	56	5	31	2.17	1.98
40	45	145	110	4–Φ18	85	76	75	4	18	48	64	5	38	2.51	2.14
50	57	160	125	4–Φ18	100	88	87	4	20	50	76	5	49	3.34	2.92
65	76 | 73	180	145	8–Φ18	120	110	109	4	22	52	96	6	66	4.34	3.85
80	89	195	160	8–Φ18	135	121	120	4	24	58	112	6	78	5.52	5.03
100	108	230	190	8–Φ22	160	150	149	4.5	24	65	138	6	96	8.02	7.35
125	133	270	220	8–Φ26	188	176	175	4.5	26	68	160	8	120	10.66	9.87
150	159	300	250	8–Φ26	218	204	203	4.5	28	72	186	8	145	13.50	12.75
200	219	375	320	12–Φ30	282	260	259	4.5	34	88	250	10	200	22.56	21.72

公称压力Nominal pressure: PN6.3Mpa

公称压力 DN/mm	法兰焊端外径(管子外径) Flange welded end outside diameter A	连接尺寸Connection dimensions /mm 法兰外径PD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	螺栓孔直径与数量ΦP z-Φb Bolt hole diameter and quantity	密封面尺寸/mm Sealing face size d	x	y	t	法兰厚度 Flange thickness C	法兰高度 Flange height H	颈部直径 Neck diameter N	圆角\P半径 Round radius R	法兰内径\P Flange inside diameter B	法兰理论\P重量(Kg) Flange theoretical weight a	b
10	14	100	70	4–Φ14	50	35	34	4	18	45	34	4	8	1.12	1.02
15	18	105	75	4–Φ14	55	40	39	4	18	48	38	5	12	1.25	1.14
20	25	130	90	4–Φ18	68	51	50	4	20	56	48	5	18	2.12	1.95
25	32	140	100	4–Φ18	78	58	57	4	22	58	52	5	25	2.64	2.46
32	38	155	110	4–Φ22	82	66	65	4	24	62	64	5	31	3.50	3.26
40	45	170	125	4–Φ22	95	76	75	4	24	68	74	5	37	4.35	3.91
50	57	180	135	4–Φ22	105	88	87	4	26	70	86	5	47	5.29	4.80
65	76 | 73	205	160	8–Φ22	130	110	109	4	26	75	106	6	64	7.00	6.43
80	89	215	170	8–Φ22	140	121	120	4	28	75	120	6	77	7.00	6.43
100	108	250	200	8–Φ26	168	150	149	4.5	30	80	140	6	94	10.96	10.25
125	133	295	240	8–Φ30	202	176	175	4.5	34	98	172	8	118	17.02	16.09
150	159	345	280	8–Φ33	240	204	203	4.5	36	108	206	8	142	25.45	24.29
200	219	415	345	12–Φ36	300	260	259	4.5	42	116	264	10	198	39.68	33.51

Steel pipe welding neck flange with male and female face

凹凸面对焊钢制管法兰



公称压力Nominal pressure: PN10.0Mpa

公称压力 DN/mm	法兰焊端外径(管子外径) Flange welded end outside diameter A	连接尺寸Connection dimensions /mm 法兰外径PD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	螺栓孔直径与数量ΦP z-Φb Bolt hole diameter and quantity	密封面尺寸/mm Sealing face size d	x	y	t	法兰厚度 Flange thickness C	法兰高度 Flange height H	颈部直径 Neck diameter N	圆角\P半径 Round radius R	法兰内径\P Flange inside diameter B	法兰理论\P重量(Kg) Flange theoretical weight a	b
10	14	100	70	4–Φ14	50	35	34	4	18	45	34	4	8	1.12	1.02
15	18	105	75	4–Φ14	55	40	39	4	20	48	38	5	12	1.37	1.25
20	25	130	90	4–Φ18	68	51	50	4	22	56	48	5	18	2.30	2.13
25	32	140	100	4–Φ18	78	58	57	4	24	58	52	5	25	2.86	2.67
32	38	155	110	4–Φ22	82	66	65	4	24	62	64	5	31	3.50	3.26
40	45	170	125	4–Φ22	95	76	75	4	26	70	76	5	37	4.72	4.28
50	57	195	145	4–Φ26	112	88	87	4	28	72	86	5	45	6.58	6.02
65	76 | 73	220	170	8–Φ26	138	110	109	4	32	84	110	6	62	9.20	8.60
80	89	230	180	8–Φ26	148	121	120	4	34	90	124	6	75	10.61	9.97
100	108	265	210	8–Φ30	172	150	149	4.5	36	100	146	6	92	14.90	14.06
125	133	315	250	8–Φ33	210	176	175	4.5	40	115	180	8	112	22.61	21.51
150	159	355	290	12–Φ33	250	204	203	4.5	44	130	214	8	136	30.43	29.26
200	219	430	360	12–Φ36	312	260	259	4.5	52	145	276	10	180	52.14	50.80

公称压力Nominal pressure: PN16.0Mpa

公称压力 DN/mm	法兰焊端外径(管子外径) Flange welded end outside diameter A	连接尺寸Connection dimensions /mm 法兰外径PD Flange outside diameter	螺栓孔中心圆直径K Bolt hole center circle diameter	螺栓孔直径与数量ΦP z-Φb Bolt hole diameter and quantity	密封面尺寸/mm Sealing face size d	x	y	t	法兰厚度 Flange thickness C	法兰高度 Flange height H	颈部直径 Neck diameter N	圆角\P半径 Round radius R	法兰内径\P Flange inside diameter B	法兰理论\P重量(Kg) Flange theoretical weight a	b
15	18	110	75	4–Φ14	52	40	39	4	24	50	40	4	11	1.73	1.60
20	25	130	90	4–Φ18	62	51	50	4	26	56	48	4	18	2.50	2.33
25	32	140	100	4–Φ18	72	58	57	4	28	58	54	4	23	3.16	2.97
32	38	165	115	4–Φ22	85	66	65	4	30	62	64	5	31	4.70	4.46
40	45	175	125	4–Φ22	92	76	75	4	32	70	76	5	37	5.73	5.26
50	57	215	165	4–Φ26	132	88	87	4	36	95	105	5	45	10.33	9.76
65	76 | 73	245	190	8–Φ26	152	110	109	4	44	110	138	8	62	16.03	15.29
80	89	260	205	8–Φ26	168	121	120	4	46	125	162	8	70	18.92	18.13
100	108	300	240	8–Φ30	200	150	149	4.5	48	165	208	8	90	26.96	25.98
125	133	355	285	8–Φ33	238	176	175	4.5	56	170	234	10	112	40.72	39.55
150	159	390	318	12–Φ33	270	204	203	4.5	62	180	266	10	136	52.36	52.05
200	219	480	400	12–Φ36	345	260	259	4.5	66	210	340	10	178	99.16	97.35