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美标、国标、日标及非标球阀
API、GB、JIS、AND
NONSTANDARD BALL VALVE



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中文网址 / 中国球阀

浙江瓯球阀有限公司
Zhejiang Onero Valve Co.,Ltd

www.ouqiu.com

Brief Introduction

企业概况

浙江永嘉瓯北球阀厂始建于1986年，工厂位于国家改革开放的前沿，素有温有“小浦东”之称的“中国泵阀之乡”——瓯北镇。厂区紧靠104国道，东邻温州国际机场、龙湾国际集装箱码头；南接温州火车站及客运中心；另有雁荡山、楠溪江等诸多国家级旅游胜地。

瓯北球阀厂是温州地区较早专业生产球阀的厂家，工厂自创建以来，“瓯球”人就一直潜心致力于球阀的专业研究、开发和生产，同时不断吸取国内外先进技术，对球阀的内部结构及外观都进行了多项改进，根据多年来的生产实践开发了一系列独具特色的新产品。目前，产品已达三十多个型号，近千种规格。一直以来，“瓯球”人始终注重科技以人为本，把质量管理作为第一目标，投入了大量的人力、物力来持续不断的完善和改进我们的质保体系。近年又通过了ISO9001, API, CE等国际质量体系认证，使企业在激烈的竞争中始终领先于同行。

在新的世纪里，勤劳且热情好客的“瓯球”人，愿以崭新的姿态与你携手一起为祖国阀门行业的振兴与发展共同拼搏，为祖国的繁荣富强共同奋斗。

The ONERO found in 1986,. Located in the national front of reform and opening-up-Oubei Town, which has the praise of "China Pump an Valve Town" of "Wenzhou Small Pudong".The factory is close to 104 National Highway with Wenzhou International Airport and Longwan International Container Dock to its east and Wenzhou Railway Station and Passenger Traffic Center to its south, and a great deal of national-level tourist attractions, such as Yandang Mountain, Nanxijiang River, etc. at there.

ONERO is an earlier professional factory of Wenzhou area in producing ball valve. Since the factory establishment, "ONERO" people have devoted to professional researching, developing and producing valve with great concentration. At the same time, the people have drawn domestic and international advanced technology constantly and made multiple improvement on the inside structure and appearance of valve to develop a series of new products showing unique characteristics according to the production practices for many years. At present, the products have already been up to more than 30 types and about a thousand kinds of specifications. All the time, "Ou Ball" people pay attention to science and people first, and regard quality control as first goal. The people invest a large amount of manpower, material resources to perfect and improve our quality assurance system constantly. Passing international quality system authentication, such as ISO9001, API, CE, etc. in recent years, which makes the enterprises be in the lead all the time in the keen competition.

In new century, industrious and hospitable "ONERO" people wish to strive for development of valve trade, and struggling for prosperity of the motherland tighter with you with new posture.

Qualification Certificate



资质证书





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GB Series

> 国标系列

ONERO



不锈钢固定球 / Q347F



铸钢固定球 / Q941F



铸钢固定球 / Q647F



铸钢浮动球 / Q41F



铸钢浮动球 / Q347F



不锈钢浮动球 / Q41F



铸钢浮动球 / Q341F



铸钢浮动球 / Q641F



铸钢浮动球 / Q941F



不锈钢浮动球 / Q47F



不锈钢浮动球 / Q41F



铸钢浮动球 / Q41F

Api Seriesn

> 美标系列

欧球品牌，以质为本
Ou ball brand, based on quality



固定球 (齿轮)



固定球 (电动)



固定球 (气动)



不锈钢固定球 (齿轮)



不锈钢固定球 (手柄)



固定球 (手柄)



浮动球 (齿轮)



浮动球 (气动)



浮动球 (电动)



不锈钢浮动球 (手柄)



不锈钢浮动球 (手柄)



浮动球 (手柄)

Forged Steel Series

> 锻钢系列

Q. ONERO



长输管线球阀 / Q347



锻钢球阀 / Q347^N_F



锻钢球阀 / Q47^N_F



锻钢球阀 / Q41^N_F



二片式锻钢球阀



三片式小口径锻钢球阀



两边加长小口径锻钢球阀



单加长小口径锻钢球阀



二片式小口径锻钢球阀



德标球阀



日标球阀



美标全氟密封 / Q41F

Three-way And Four-Way Series

> 三通及四通系列

瓊球品牌，以質為本
Ou ball brand, based on quality



三通四密封 / Q45F



三通四密封 / Q945F



三通四密封 / Q645F



三通二密封 / Q44F



三通二密封 / Q944F



三通二密封 / Q644F



三通內螺紋 / Q14F



美標不銹鋼三通 / Q45F



國標不銹鋼三通 / Q45F



四通換向閥 / Q646F



四通換向閥 / Q346F



四通換向閥 / Q946F

Other Series

> 其它系列

Q. ONERO



埋地球閥 / QE347F



硬密封固定球 / Q347_{YH}



硬密封浮動球 / Q41_{YH}



保溫球閥 / BQ341F



低溫球閥 / DQ41F



低溫球閥 / DQ11F



一片式法蘭球閥



一片式球閥



二片式球閥



三片式球閥



埋地球閥 / QE41F



薄型球閥



對夾球閥

Code Number of Ball Valves > 球阀的型号编制方法

瓶球品牌，以质为本
Ou ball brand, based on quality

Primary Construction Functions and Features of Ball Valve > 球阀的主动要结构、功能和特点

Q. ONERO

球阀被广泛的应用在石油炼制、化工、造纸、制药、食品、水力、电力、市政、钢铁等行业。其中抗硫系列球阀特别适用于含硫化氢介质、杂质多、腐蚀严重的天然气长输管线。

Ball valve is widely used in such fields as petroleum refining, chemical industry, papermaking, pharmaceutical industry, food industry, Water power, electric power, city planning, steel, etc. among them the sulphur-resistance serial ball valve is especially applicable for natural gas long-distance transportation features containing sulphurate hydrogen medium, mang impurity and serious corroding..

Sealing Construction of Valve Seat 阀座的密封结构

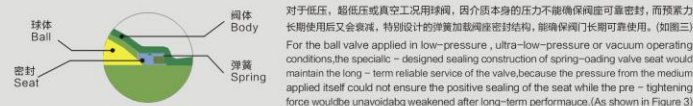
浮动球阀采用特殊设计的双侧面弹性密封圈。有效的降低了球体与密封圈之间的磨擦力，减少了操作力矩。当介质压力较小时，密封圈与球体接触面积较小，故有较大的密封比压，确保可靠密封。当介质压力较大时，密封圈与球体接触面积也相应增大。故密封圈能承受较大的介质推力而不会损坏，确保可靠密封。（如图一所示）。

The elastic double-beve seal ring is specially applied in designing the floating ball valve to reduce friction between globe body and seal ring for the reduction of operating physical force. The contact area of the seal ring against the globe body is small when the medium pressure is comparably small as well, therefore the relatively higher specific pressure of sealing would be featured for ensuring the positive sealing, while the area would be correspondingly increasing when the pressure is becoming larger. In this situation on the seal ring can hold thrust force from the medium without being damaged, while the positive sealing state would certainly be maintained. (As shown in Figure 1)

当介质的冲刷力较大时，特别设计的阀座防冲刷结构能有效的防止介质的冲刷，确保阀座的使用寿命。（如图二）
This specially-designed fluid-erosion protecting construction of valve seat could effectively prevent the abrasion from liquid medium for the service life of sealing rings if the scouring force by the medium is relatively high. (As shown in Figure 2)



Sealing Construction Of Spring Loading On Valve Seal 弹簧加载阀座密封结构 (图3)(Figure 3)



固定球阀可根据压力大小选择不同的密封形式：A / 进口端密封 B / 出口端密封 C / 进出口两端密封（如图四）
Differential sealing measures are provided for choice with regard to diversified pressure required by the fixed-type ball valve:
A / Sealing on Entrance End B / Sealing on Exit End C / Two-Way Sealing on both Entrance and Exit Ends. (As shown in Figure 4)



A:进口端密封 / Sealing on Entrance End
由于d1、d3的面积差在上游介质的压力作用下形成活塞效应，使阀座与球体紧密接触而密封。
The piston effect would be realized through the pressure from head-race medium against the areal difference of d1 to d3, thus it would cause intimate contact from valve seat to globe body until sealed.

B:出口端密封 / Sealing on Exit End
由于d1、d3的面积差在上游介质的压力作用下形成活塞效应，使阀座与球体紧密接触而密封。
The piston effect would be realized through the pressure from lumen medium against the areal difference of d1 to d3, thus it would cause intimate contact from valve seat to globe body until sealed.

C:双向密封 / Two-Way Sealing
由于d1>d2>d3, 在d1和d2、d3之间的面积差，在受到上游介质与中压介质的压力作用而形成的活塞效应使阀座与球体紧密接触而密封。
The piston effect would be realized through the pressure from both the head-race medium and the lumen medium of the Body, thus it would cause intimate contact from valve seat to globe body until sealed, because of d1>d2>d3 and the areal differences of d1 and d2, and that of d2 and d3.

Remarks 注:

- 1/ 手柄、手柄和扳手传动省略第二单元代号。对于第二单元的气动或液动常开式用6K, 7K, 常闭式用6B, 7B表示，气动带手动的用6S表示，防爆电动用9B表示，户外型用9R表示。
- 2/ 第五单元阀座材料用阀体直接加工的用“W”表示，当相互接触的两个密封面材料不同时，用低硬度材料代号表示。
- 3/ 对于PN≤1.6MPa的灰铸铁阀门和PN≥2.5MPa的铸钢阀门可以省略第七单元代号。
- 4/ 对于第八单元PN≤4.0MPa的灰面法兰，可省略密封水线，密封面代号为RF(A)
- 5/ 如没特别说明，球体及主要内件与阀体同材质。
- 1/ The second unit code number should be omitted for hand-wheel, handle and spanner driving means. The character 6K or 7K represents the pneumatic or hydro-dynamical normally-open products in the second unit, the character 6B or 7B represent the normally closed type, 6S represents the pneumatic products with manual driven, 9B represents the blast-proofing motor-driven products, and 9R represents the outdoor type.
- 2/ For the materials of the valve seat in unit 5, the character W represents those directly-processed with Body, and the material marks of lower-tightness represent those products with different materials on the two abutting sealing surfaces.
- 3/ For the gray cast iron valve of PN≤1.6MPa and carbon steel valve of PN≥2.5MPa, the code numbers in unit 7 could be omitted.
- 4/ For the raised face flange of PN≤4.0MPa in unit 8, the micro-groove waterlines could be omitted with the code number for the sealing surface as RF(A).
- 5/ The materials for the globe body and main internal components are identical to that for the Body if special version not mentioned.

Example1

例1 / Q647Y-16P₉

表示为球阀、气动、法兰连接、全通径固定式、密封材质为硬合金、压力为1.6MPa，阀体材质为CF8

It represents a Contact Flange pneumatic ball valve of all-diameter, with the sealing material of cemented and the material of body of CF8 the pressure stays at 1.6MPa.

Example2

例2 / Q341F-150LB

表示为球阀、蜗轮传动、法兰连接、全通径浮动式、密封材质为聚四氟乙烯、压力等级为CLASS150, 阀体材质为WCB

It represents a wormgear-driven Contact Flange ball valve of all-diameter, which floating with the material of polytetrafluorethylene and the material of Body of WCB, the pressure stage stays at CLAS150

Primary Construction Functions and Features of Ball Valve

> 球阀的主动要结构、功能和特点

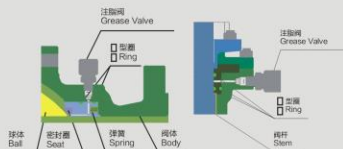
瓊球品牌，以质为本
Ou ball brand, based on quality

Auxiliary Sealing Construction

辅助密封结构

根据用户的需要，球阀的阀座及阀杆的密封部位，可加装注脂阀。当密封部位因磨损而引起泄漏时，通过注脂阀注入密封脂，可起到临时密封作用。(如图五)

The grease valve could be additionally mounted on those parts require sealing process as valve seat or Stem of the ball valve as required. The sealing grease could be filled in through the grease valve if some leakage should happen caused by scratchings on related sealing place to realize instantaneous sealing effect. (As shown in Figure 5)



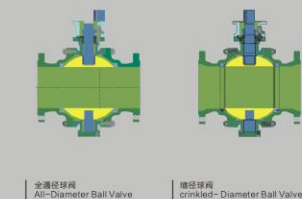
图五 / Figure 5

All-Diameter Construction & Crinkled-Diameter Construction for the Ball Valve

球阀的全通径及缩径结构

为满足客户的不同需求，球阀设有全通径及缩径两大类。全通径球阀的通道内径与管径内径一致，不但流体阻力小，也便于管道清理。而缩径球阀的流体阻力比相同口径截止阀的流体阻力要低很多，重量比相同口径的球阀要轻30%左右，有效的降低了生产成本及价格，因而得到了较为广泛的使用。(如图六)

The two series of the ball valve, the all-diameter ones and the crinkled-diameter ones, are being provided for the valve as required. With the minimum fluid resistance and facilitated pipeline-cleaning system, the all-diameter ball valve features identical inside diameter of the passage to that of the pipeline while crinkled-diameter construction features much smaller fluid resistance and 3% discount of less weight than that enjoyed by the cut-off valve of identical caliber. With the effectively reduced production cost and price, this kind of valve is increasingly enjoying more popularity. (As shown in Figure 6)

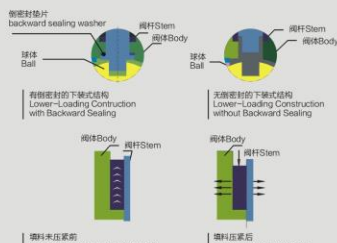


Extruding-Protection/Valid Sealing Construction for the Stem

阀杆防冲及有效密封结构

阀杆采用下装式，设置带有密封垫片的侧密封结构，侧密封的密封力随阀腔介质压力的增高而增大，从而确保阀杆的密封效果。当阀腔异常升压时，阀杆不会被冲出。填料采用设计合理的V型结构，能将阀腔内部的介质压力及外部压力的锁紧力有效的转化成阀杆的密封力。(如图七)

Backward sealing construction with lower-loading and sealing washer is provided with the Stem. The sealing force from the backward sealing process would increase in company with the medium pressure inside the valve pocket to maintain the sealing effectiveness of the Stem and ensure that the handle rush out if some abnormal lifting pressure should happen. The V-structure is also associated with the design of the loading material to effectively transfer both of the medium pressure inside the pocket and the locking force on the external gland to the sealing force on the handle. (As shown in Figure 7)



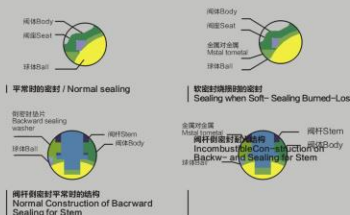
图七 / Figure 7

Incombustible Construction

耐火结构

根据用户的需要，球阀可设计成耐火结构。当万一发生火灾而使密封圈烧损时，球阀的各个密封部位均能形成金属对金属的硬密封结构，有效阻止介质的扩散，防止火灾扩大。(如图八)

Incombustible construction would be provided in designing the ball valve as required. Should seal rings be burned in fire, all the sealing parts of the ball valve would form a kind of hard-sealing construction of metal against metal to effectively stop the pervasion of the medium in the valve and aggravation of the fire. (As shown in figure 8)



图七 / Figure 7

Primary Construction Functions and Features of Ball Valve

> 球阀的主动要结构、功能和特点

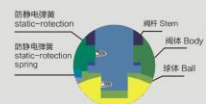
ONERO

Static-Protecting Construction

防静电结构

根据用户需要，球阀可设计防静电结构，即在球体与阀杆、阀杆与阀体之间设置导电弹簧，使阀门在开启过程中产生的静电能通过所设置的静电通道传入管路导入地下，达到清除静电的目的。避免静电打火点燃易燃介质，确保系统安全。(如图九)

The ball valve could be designed as static-protecting construction as required, namely, mounting conductive spring between the globe body and stem, or between the stem and body. There after the static engendered during opening the valve could be conducted to pipelines then earth through the pre-set static passage to clear static away. The design works to prevent igniting combustible medium by static fire-striking for the system safety. (As shown in Figure 9)



图九 / Figure 9

Earthing Construction

埋地结构

根据用户的需求，球阀可设计成阀杆加长结构，适用于管埋地铺设安装的场所。(如图十)

The ball valve could be designed as lengthened construction of Stem as required for favorable application in places earthing pipelines or installing laying works. (As shown in Figure 10)



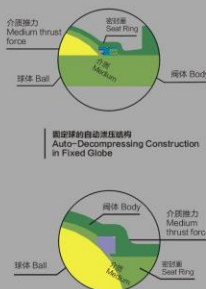
图十 / Figure 10

Auto-Decompressing Construction

自动泄压结构

当滞留于阀腔内的液体介质因温度的升高而产生汽化使中腔压力导常升高时，中腔介质依靠本身的膨胀力驱动阀座向后而自动泄压确保阀体安全。(如图十一)

The medium in lumen would press the valve seat backwards through its own thrust force to realize auto-decompression for the safety of the Body if some abnormal pressure-rise should happen caused by the gasification of the liquid medium detained in the valve pocket from temperature rise. (As shown in Figure 11)



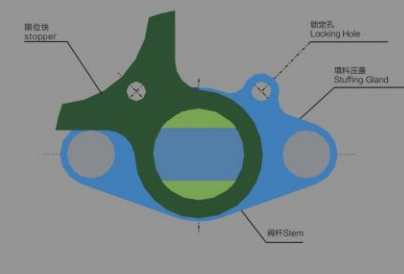
图十一 / Figure 11

Misoperation-Protecting Construction

防止误操作结构

对安装在野外的或防止非工作人员误操作的，以不在有些振动较大的场合手柄受到撞击产生误动作的阀门，在阀门的全开或全关的位置设有锁定孔，需要时可加锁，起到安全保护作用。(如图十二)

Locking holes are provided in the fully-open or fully-close position of the valve to realize locking-up motion for safety should some incorrect operations happen to the valve caused by outdoor installation, misoperation by non-staff, or the valve easy of malfunctioning through the impactation of the handle in the situation with intense vibration. (As shown in Figure 12)

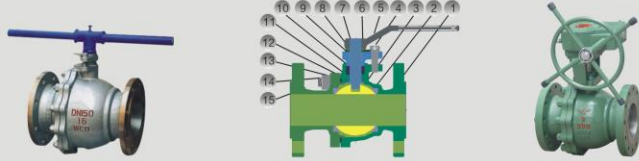


图十二 / Figure 12

Flange-connection Floating Ba II Series

> 法兰连接浮动球阀系列

砥球品牌，以质为本
Ou ball brand, based on quality



Specifications

产品特点

适用介质：水、气、油品、天然气和酸碱腐蚀性介质

Applicable medium: Water, gas, oil product, natural gas and Corrosive mediums as acids, alkalis, etc.

适用温度：-196 ~ 250℃

Applicable Temperature: -196 ~ 350℃

驱动方式：手动、气动、电动、液动等

Driving Means: Manual, pneumatic, motor, hydro-dynamic, etc.

公称口径：DN15 ~ 250mm 1/2" ~ 10"

Inside Nominal Diameter: DN15 ~ 250mm 1/2" ~ 10"

Main Parts and Materials / 主要零件及材质

序号 No	零件名称 Accessory name	材质 Material
1	阀体Body	A216-WCB, A352-LCB, A351-CF8M, CF3, CF3M, A52-LCB, LCC, 31803
2	密封座Seat	PTFE, RTPE, PEEK, PPL
3	球体Ball	F304, F316, F316L, A105+ENP, F51, EF2+ENPCr18Ni9Ti, Ss304
4	螺钉Screw	35, A193-B7, B8 A193-B7
5	手柄Lever	A216-WCB+Cr 25'
6	挡盖Retainer	65Mn AISI 1066
7	阀杆Stem	2Cr13, A182-F304, F316L, F304L, F316L, F316L, A105+ENP, F51, EF2+ENPCr18Ni9Ti, Ss304
8	限位片Limited Plate	1015+Cr Stainless Steel
9	填料压盖Gland Packing	A216WCB+Cr, CF8 WCB A216-WCB
10	填料Packing	PTFE Graphite PTFE
11	止推垫片Thrust Washer	25' PTFE PPL PTFE
12	垫片Gasket	PTFE, Ss304 + Graphite 柔性石墨+不锈钢 SS316+Graphite PTFE graphite stainless steel
13	螺母Nut	35, A194-2H, M8, B8, 7 A194-2H
14	螺栓Stud	35CrMoA, A193-B7, B7M, B8, B8M, L7, A193-B7
15	阀盖Bonnet	同阀体 WCB A216-WCB

Technical Specification / 技术规范

设计依据 Design Reference	GB系列 GB series	API系列 API series
设计标准Design Standard	GB / T12237	API6D ANSI B16.34 B3.35.35.1
法兰连接结构长度Face Fo Face	GB/T12221	ANSI B16.10
连接法兰End Flange	GB / T19113 JB / T1913 JB20002	ANSI B16.5, B16.47
对焊端BW End	GB / T12224	ANSI B16.25
试验和检验Test & Inspection	GB/T9092	API6D API598

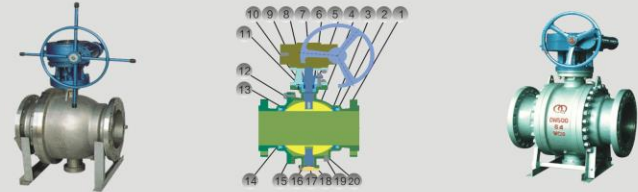
试验压力 Test Pressure

压力等级 Pressure grade	试验压力(Mpa) Test pressure(Mpa)		
公称压力(PN) Nominal pressure	磅级(class) Pound(class)	壳体试验 Shell test	密封试验 Sealing test
1.0	~	1.5	1.1
1.6	~	2.5	1.76
2.5	~	3.8	2.75
4.0	~	6.0	4.4
6.4	~	9.6	7.04
~	150	3.0	2.2
~	300	7.6	5.6
~	600	15.0	11.0
~	10k	2.4	1.5
~	20k	5.8	4.0

Flange-connection Fixed Ba II Series

> 法兰连接固定球阀系列

砥球品牌，以质为本
Ou ball brand, based on quality



Specifications

产品特点

适用介质：水、气、油品、天然气和酸碱腐蚀性介质

Applicable medium: Water, gas, oil product, natural gas and Corrosive mediums as acids, alkalis, etc.

适用温度：-196 ~ 250℃

Applicable Temperature: -196 ~ 350℃

驱动方式：手动、气动、电动、液动等

Driving Means: Manual, pneumatic, motor, hydro-dynamic, etc.

公称口径：DN15 ~ 800mm 1/2" ~ 32"

Inside Nominal Diameter: DN15 ~ 800mm 1/2" ~ 32"

Main Parts and Materials / 主要零件及材质

序号 No	零件名称 Accessory name	材质 Material
		GB ASTM
1	阀体Body	WCB A216-WCB
2	弹簧Spring	60Si2Mn AISI9250
3	密封座Seat	PTFE PTFE
4	球体Ball	1Cr18Ni9Ti 304S
5	键Key	1045 A182-F304, F316, F316L, F15 45, AISI C 1045
6	填料Packing	PTFE PTFE
7	阀杆Stem	1Cr13 A276-410
8	填料压盖Gland Packing	WCB A216-WCB
9	支架Yoke	A216-WCB
10	压套Cover	25 A105
11	"O"型圈 "O" Ring	橡胶Rubber 氟橡胶Viton
12	滑动轴承Sliding bearing	PTFE+stainless steel PTFE+SS316
13	螺栓Stud	35CrMoA A193-B7
14	螺母Nut	35 A194-2H
15	阀座Seat Ring	A105+ENP, F304, F316, F316L, F304L, F6, F51, 25, A105
16	垫片Gasket	PTFE, SS304+Graphite, SS316+GraphiteA
17	螺钉Screw	35 A193-B7
18	固定轴Trunnion	A105+ENP, A182-F6, F304, F316, F316L, F304L, 17-4PH, F51, 1Cr13, A276-410
19	底座Bottom cover	A105+ENP, A182-F304, F316, F316L, F304L, 17-4PH, F6, F51, 25, A105
20	排水罩Drain Valve	1020+2N A182-F304, F316, F316L, F51, 25, A105
21	阀盖Bonnet	WCB A216-WCB

Technical Specification

技术规范

设计依据 Design Reference	GB系列 GB series	API系列 API series
设计标准Design Standard	GB / T12237	API6D ANSI B16.34 B3.35.35.1
法兰连接结构长度Face Fo Face	GB/T12221	ANSI B16.10
连接法兰End Flange	GB / T19113 JB / T1913 JB20002	ANSI B16.5, B16.47
对焊端BW End	GB / T12224	ANSI B16.25
试验和检验Test & Inspection	GB/T9092	API6D API598

试验压力 Test Pressure

公称压力 (PN, LB) Nominal Pressure	壳体试验 Shell test	水压试验 Water equal test	气密性试验 Air seal test
	Mpa Lbf/in²	Mpa Lbf/in²	Mpa Lbf/in²
PN1.0	1.5 220	1.1 160	
PN1.6	2.5 350	1.76 255	
PN2.5	3.8 570	2.75 400	
PN4.0	6.0 870	4.4 640	
PN6.4	9.6 1400	7.04 1020	0.5 60
150Lb	3.0 450	2.2 315	0.7 100
300 Lb	7.6 1125	5.6 815	
600Lb	15.0 2225	11.0 1630	
10k	2.4 350	1.5 220	
20k	5.8 840	4.0 580	

Flange-connection Stiff Metallic Sealing Series

> 法兰连接金属硬密封球阀系列

欧球品牌，以质为本
Ou ball brand, based on quality

Construction Features 产品结构特点

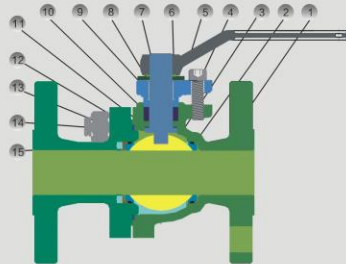
经过特殊工艺处理的球体与阀座，特别适用于较高温度及含各种粉尘与固体颗粒的介质。
1. 采用特别设计的补偿性可动金属阀座结构，密封可靠。
2. 本系列球阀应按规定流向使用。
3. 本系列球阀可配多种驱动装置。

Process through special techniques, the globe body and valve seat are especially applicable for high-temperatures and the medium containing dusts and solid particles.
1. The specially-designed compensatory movable valve seat construction made from metal is of great reliability in its sealing performance.
2. The ball valve series should be applied in accordance to the specific flow direction.
3. Multiple driving devices could be prepared for the series.



Main Parts and Materials / 主要零件及材质

序号 No	零件名称 Accessory name	材质 Material	
		GB	ASTM
1	阀体Body	WCB	A216-WCB
2	阀座 Seat	1Cr18Ni9Ti	304
3	球体Ball	2Cr13	A276-420
4	螺钉Screw	35	A193-B7
5	手柄Lever	玛钢	A47-667-Gr.32510
6	挡圈Retainer	65Mn	AISI 1066
7	阀杆Stem	1Cr13	A276-410
8	定位片Limited Plate	25	A105
9	填料压盖Gland Packing	WCB	A216-WCB
10	填料Packing	柔性石墨graphite PTFE	柔性石墨graphite PTFE
11	垫片Gasket	柔性石墨+不锈钢 graphite+stainless steel	B12.10-304/EG
12	螺母Nut	35	A194-2H
13	螺栓Stud	35CrMoA	A193-B7
14	座垫Gasket	1Cr18Ni9Ti	304
15	弹簧Spring	60Si2 Mn	AISI 9260



Performance Specification of the Products / 产品性能规范

压力等级Pressure Rating		公称压力Nominal Pressure(PN)					磅级Pound Grade(Class)			
		1.6	2.5	4.0	6.4	10.0	150	300	400	600
试验压力 Test Pressur (Mpa)	壳体试验Shell Test	2.4	3.75	6.0	9.6	15.0	3.03	7.5	10.2	15.0
	密封试验Pressure Test	1.76	2.75	4.4	7.04	11.0	2.2	5.5	7.48	11.0
适用工况 Applicable Operating Mode	适用介质Applicable Mediums	纸浆、浆料、粉尘及含各种固体颗粒的介质 Pulpes like paper pulp, dusts, and medium with solid particles								
	适用温度Applicable Temperature	-196~≤550℃								
适用规范 Applicable specification	设计制造The designing and manufacturing work follows	GB12237-89 AP16D JPI7S-48								
	法兰尺寸按Flange dimension according	JB79-59, GB9113, HG20592-97 ANSI B16.5 JIS B2212-2214								
	结构长度按Physical dimension according	GB12221-89 ANSI B16.10 AISI B2002								
	检验试验按Test and inspection according	JB/T9092-99 API598								

Top Entry Trunnion Mounted Ball Valve

> 顶装式球阀

ONERO

Adopt standard 应用标准

设计制造按API6D, ASME B16.34 / 检验和测试按API598 / 法兰按ASME B16.5, DIN2543-2550, JB/T79.1-79.4
材质按NACE M0175 / 防火按API607, API6FA

Design manufacture according to API6D, ASME B16.34 / Inspection and test to API598 / Flang to ASME B16.5, DIN2543-2550, JB/T79.4
Material to NACE M0175 / Fire safe as per API607, API6FA



球体有上部装进阀体便于修理。
The ball is fitted into the valve body from the top, thus for repair work.

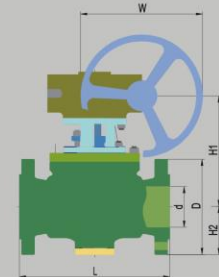


锁紧式阀座以防止密封面被冲出
Seat inter-rolled can be to prevent the seat inserts being washed out.
防火时阀座的防火设计对阀体的紧急注脂
F.S.design of seat -assistant, Body chamber greased urgency when firing.

主要外型及连接尺寸表 Main Types and Connecting Dimension

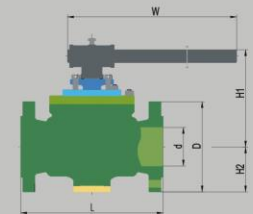
Class150

Size	G	L	H1	H2	W	Weight
in	mm	mm	mm	mm	mm	kg
2	51	292	170	76	285	46
3	76	356	21	95	285	83
4	102	432	250	115	400	156
6	152	559	265	140	*400	256
8	203	660	355	172	*600	453
10	254	787	385	203	*600	622
12	305	838	400	242	*600	747
14	337	889	450	267	*600	959
16	387	991	510	299	*600	1220
18	438	1092	565	318	*600	1640
20	489	1194	620	349	*600	2118
24	591	1397	680	407	*700	2950



Class300

Size	G	L	H1	H2	W	Weight
in	mm	mm	mm	mm	mm	kg
2	51	292	170	83	285	49
3	76	356	21	105	285	87
4	102	432	250	127	400	164
6	152	559	265	159	*400	272
8	203	660	355	191	*500	479
10	254	787	385	222	*600	657
12	305	838	400	261	*600	783
14	337	889	450	292	*600	1007
16	387	991	510	324	*600	1281
18	438	1092	565	356	*700	1722
20	489	1194	620	388	*700	2224
24	591	1397	680	457	*700	3100



V-Type Ball Valve

> V-型球阀

欧球品牌，以质为本
Ou ball brand, based on quality

Adopt standard

适用标准

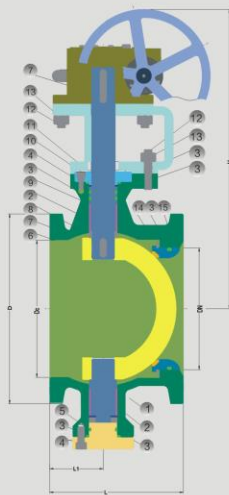
1. 阀门的设计、制造及验收按API6D、GB/T12237;
2. 阀门检验与试验按API598、JB/T9092-1999;
3. 阀门的结构长度按ASME B16.10、GB/T12221的规定;
4. 法兰连接尺寸按ASME B16.5、GB/T79-94的规定;
5. 壳体材料的压力-温度基准按ANSI B16.34的规定。

1. Design manufacture according to API6D、GB/T12237;
2. Inspection and test to API598、JB/T9092-1999;
3. Physical dimension follows ASME B16.10、GB/T12221;
4. Flange dimension follows ASME B16.5、GB/T79-94;
5. Shell materials, the pressure-temperature of the base by ANSI B16.34;



Main Parts and Materials / 主要零件及材质

序号NO	名称PART	材质MATERIAL
1	阀体Body	A216-WCB A351-CF8, CF8M, CF3, CF3M
2	滑动轴承Sliding Bearing	Stainless Steel-PTFE SS316-PTFE
3	O型圈O-Ring	NBR Viton
4	螺钉Screw	ASTMA193-B7, B8
5	固定轴 Trunnion	A105+ENP A182-F6, F304, F316, F316L, F304L
6	球体Ball	A105+ENP ASTM A182-F6, F304, F316, F316L
7	键KEY	1045 A182-F304, F316, F316L, F304L
8	钢垫片 Steel Gasket	A182-F304, F316, F316L
9	阀杆Stem	A105+ENP A182-F6, F304, F316, F316L, 17-4PH
10	压套Cover	A182-F304, F316, F316L, F304L
11	支架Yoke	A216-WCB A351-CF8
12	螺栓Stud	ASTMA193-B7, B7M, B8, B8M
13	螺母Nut	ASTMA194-2H, 2HM, 8, 8M
14	阀座弹簧Seat Spring	17-4PH Inconel X-750 SS304 SS316
15	阀座圈Seat Ring	ASTMA105+ENP ASTM A182-F6, F304, F316, F316L



总装示意图 (Assembly diagram)

PN	DN	L	L1	D	DC	H	H1	PN	DN	L	L1	D	DC	H	H1
16	25	50	25	64	57	200	57	25	25	50	25	64	57	200	57
	40	60	25	82	63	205	63		40	60	25	82	63	205	63
	50	75	32	100	92	225	92		50	75	32	100	92	225	92
	65	85	38	120	100	235	100		65	85	38	120	100	235	100
	80	100	45	131	108	260	108		80	100	45	131	108	260	108
	100	115	50	158	113	270	117		100	115	50	158	113	270	117
	125	135	55	180	140	320	140		125	135	55	180	140	320	140
	150	160	65	216	164	340	177		150	160	65	216	164	340	177
	200	200	80	268	205	390	200		200	200	80	268	205	390	200
	250	240	92	326	259	420	252		250	240	92	326	259	420	252
40	25	120	68	200				63	25	102	68	200			
	40	114	88	205					40	114	88	205			
	50	124	102	225					50	124	102	225			
	65	143	122	235					65	143	122	235			
	80	165	138	260					80	165	138	260			
	100	194	162	270					100	194	162	270			
	125	213	188	320					125	213	188	320			
	150	229	218	340					150	229	218	340			
	200	243	285	390					200	243	285	390			
	250	297	345	420					250	297	345	420			

Powder-Coal Ejection Ball Valve

> 喷煤粉专用球阀

ONERO

Construction Features

产品结构特点

本系列气动球阀是作为控制粉尘、含固体粉末，特别适用于高炉煤粉喷吹、空气管道及造粒管道系统。

1. 阀座带有磨损自动补偿装置，有效确保阀门的密封性能。
2. 特殊材料制成的密封圈，具有耐高温、耐磨损、使用寿命长的特点。
3. 阀门结构紧凑、启闭灵活、安装维修方便。

The Air operated ball valve series are designed for controlling the powders containing dusts or solid bodies, especially for those fields or systems as coal-powder injection in high-furnace, air/flow lines, lance lines, etc.

1. Wear-auto-compensation equipment is applied with the valve seat to effectively ensure the sealing performance of the valve.
2. The seal ring made from exotic materials features such specialities as high-temperature resistance, abrasion-resistance, long service life, etc.
3. The valve bears those characteristics like compact structure, flexible on-off, and convenient method for installation and maintenance.

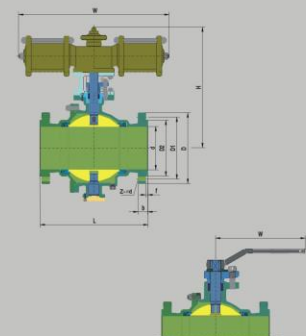


Main Parts and Materials / 主要零件及材质

零件名称Accessory name	材质Materials
阀体、阀盖Body, bonnet	WCB
球体、阀座Globe Body, seat	1Cr18Ni9Ti+镀铬 ICr18Ni9Ti+Hard chrome
阀杆Stem	2Cr13
密封圈Sealing ring	特种耐磨耐高温四氟 Special wearing-resisting and high-temperature resistance lateral fluorine
螺栓Bolt	中碳钢Medium Carbon steel

主要外型及连接尺寸表

Form of Main Types and Connecting Dimension



公称压力Nominal pressure	1.6Mpa
壳体试验压力Shell Test Pressure	2.4Mpa
高压液密封High-Pressure Liquid Sealing	1.76Mpa
低压气密封Low-Pressure Hermetic Sealing	0.6Mpa
适用温度Applicable Temperature	-28 ~ 300℃
适用介质Applicable Mediums	含尘气体、煤粉等 Dusty gases, Powder coal, etc.
结构长度按Structural length follows	GB1221-89
法兰尺寸按Flange Dimension follows	GB9113-99
驱动方式Driving manner	手动, 气动 Manual/Pneumatic

公称压力 PN (MPa) Nominal pressure	公称通径 DN (mm) Nominal Diameter	尺寸 dimension (mm)			
		L	W	H	
1.6	25	180	140	235	90
	32	200	155	235	107
	40	220	250	330	127
	50	220	250	330	140
	65	241	350	400	164
	80	283	350	510	177
	100	305	420	510	206
	125	356	700	580	292
	150	394	1000	720	320
	200	457	—	720	—
1.6	250	533	—	900	—
	300	610	—	1050	—
	350	686	—	1290	—
	400	762	—	1600	—
	450	838	—	1900	—
	500	914	—	2200	—

其余连接尺寸参照样本《主要外型及连接尺寸表》
Please refer to the sample book of Form of Main Types and Connecting Dimension for other connection dimensions

> 节能型焦炉专用系列球阀

| 睺球品牌，以质为本
Ou ball brand, based on quality

Features

产品特点

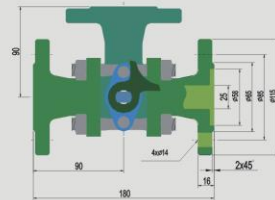
该系列球阀特别适用于各焦化厂焦炉氨水、喷射循环系统高低压转换时使用。

- 一、阀门的连接尺寸与原三速球阀相同，更换方便。
- 二、独特的增强聚四氟乙烯密封衬，其耐腐强度大大提高，显著提高密封圈的使用寿命。
- 三、独特的内部结构，不仅大大降低了生产成本，而且使加工与维修更加简单化。
- 四、带倒密封结构的下装式阀杆，不仅防止了阀杆泄漏，而且阀杆部位的密封更加可靠。
- 五、外型结构紧凑，独特三块式设计使阀门外观更完美。

The valve series are especially for the high/low-temperature conversion course in such fields as the ammonia water in coke ovens or the injection circulating system in coke plants.

1. The connection dimension of the valve is identical to that of the above-mentioned 3-way ball valve for convenient replacement.
2. The specially-designed seal ring made from strong polytetrafluoroethylene with much greater abrasion strength could obviously enhance the service life of the ring.
3. The special interior structure applied not only reduces the production cost but also simplifies the processing and maintenance work.
4. The lower-loading Stem with backward sealing construction not only prevents the handle from backing-out but also ensures the reliability of the scaling part of the handle.
5. With compact structure in configuration, the specially-designed 3-part feature makes the valve much more perfect.

主要连接尺寸
Main Connecting
Dimension



Q44M-40



Q41F-40

产品型号 Product type	零件名称 Accessory name	零件材料 Accessory material
Q44M-40DN25 Q41F-40DN25	筒体、筒盖Body,Bonnet	WCB
	球体Ball	1Cr18Ni9Ti
	筒杆Stem	2Cr13
	密封圈Sealing ring	增强聚四氟乙烯RPTFE
	填料Stuffing	V型聚四氟乙烯 V-shaped PTFE

公称压力 P.N (MPa) Nominal pressure	试验压力 (Mpa) Test pressure		
	壳体 Shell	高压液密封 High-pressure liquid sealing	低压气密封 Low-pressure pneumatic sealing
4.0	6.0	4.4	0.6
适用温度 Applicable temperature	≤150℃		
适用介质 Applicable medium	氨水等 L.liquid ammonia, etc.		

Pipeline Ball Valve For Long-distance Transportation

> 长输管线球阀



Features

产品特点

本系列球阀是根据用户的需求,为满足在硫化环境下的抗硫化应力裂化的要求,我们从设计、选材、制造、试验、表面处理及涂装都严格按美国腐蚀工程师协会NACE的有关标准要求进行。

本系列球阀不仅选材广泛且内件材料均采用表面镀镍或是316材质、密封圈采用特制的聚合物材料。使阀门不仅防腐蚀、抗硫化能力强、防火、防静电、密封性能好、适用压力与温度范围广、全通径与缩径齐备、并可配多种驱动装置,是化工、石油炼制天然气开采与输送系统理想的用阀选择。

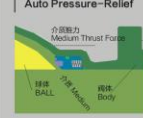
The ball valve is designed according to the demands from the customers, to meet the requirements for cracking-resistance from sulphur stress under sulfidizing environment. Therefore under this requirement we strictly is according to the standards concerned of NACE—National Association of Corrosion Engineer in the designing, material-selecting, manufacturing, testing, surface-treating and lacquer-finishing processes

The ball valve series not only bears wide range of selected materials, furthermore, the internal components of the valve are all nickel-plated on surfaces or made from the material 316, and the seal ring is made from the special polymeric material. Therefore the valve not only features favorable anti-corrosion and sulfide-resistance capacity, the fine fire-proofing, static-prevention and sealing performance are also enjoyed by it. With wide range of Suitable pressure and temperature, the valve feature both all-diameter types and crinkled-diameter ones with diversified applicable driving units. It is indeed a kind of ideal choice in chemical industry, petroleum refining industry, the mining and conveying system of natural gas, etc.



Main Functions / 主要功能

自动泄压功能



The pressure from medium would press the valve seat of from globe body to make auto-decompression a realization when the pressure of the medium remained in the lumen of the valve increases abnormally caused by temperature shift. The seat automatically reset after decompression.

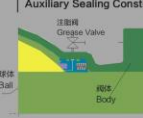
构造泄排 Draining Construction



拧开排渣装置可检查阀座是否可以泄漏,也可排放中程滞留物减少介质对阀门的污染。在工作状态下,阀门处于全开或者全关时,可更换阀杆部填料函。

After the reduction gear being screwed-off, the valve seat could be checked for leakage, and the retained matter in the lumen would also be vented to reduce the medium from polluting the valve. When the valve stays at full-open or full-closed position under operating mode, the stuffing box or Stem could be replaced.

輔助密封結構
Auxiliary Sealing Construction

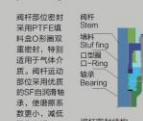


阀座密封结构
Seated Structure Valve Seat

阀座除了一般密封外, 特别设置的辅助密封结构, 能起密封时磨蚀伤而出现漏油时的紧急救护作用。

Besides normal sealing measures, the specially-mounted auxiliary sealed construction on the valve seat can work to first-aid the leakage caused by the damage of the seal ring.

阀杆密封结构 Sealing Construction of Stem



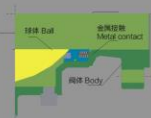
sealing construction of stem

The double-sealing of stuffing PTFE and O-ring is applied for sealing the part of Stem, thus this measure is especially applicable for gaseous medium. The high-quality self-lubricating bearing SF is utilized on the motion parts of the handle to minimize the coefficient of friction and reduce operating physical force

防火結構
Fire-Resistive Constn



当万一发生火灾或由于异常升温使闸座密封圈烧损或软化时, 闸门操作仍然可靠。同时, 闸座与球体形成金属对金属接触, 达到暂时密封作用, 阻止了火灾进一步扩大, 符合AP10FA的规定。



Sealing while valve seat Burned-loss
阀座烧损时密封

Pipeline Ball Valve for Long-Distance Transportation

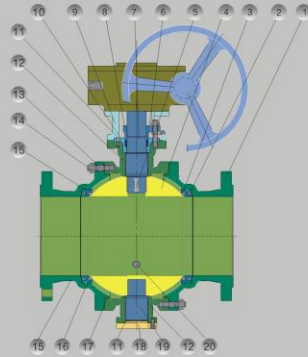
> 长输管线球阀

威球品牌，以质为本
Ou ball brand, based on quality

Main Parts and Materials

主要零件及材质

序号 Number	零件名称 Accessory name	材质 Material	
		GB	ASTM
1	阀体 Body	WCB, A105	A182 F316
2	弹簧 Spring	60Si2Mn	316
3	密封圈 Seat	增强聚四氟乙烯 RPTFE	
4	球体 Ball	A105+ENP	A182 F316
5	键 Key	45	316
6	填料 Stuffing	PTFE	PTFE
7	阀杆 Stem	2Cr13+镀锌 2Cr13+ENP	316
8	填料压盖 Gland	WCB	A216-WCB
9	支架 Yoke	WCB	A216-WCB
10	压盖 Cover	A105	316
11	"O"型密封圈 O' Ring	橡胶 Rubber	橡胶 Rubber
12	滑动轴承 Sliding bearing	不锈钢+PTFE PT7 Eastasian steel	316+PTFE
13	螺栓 Stud	35CrMoA	316
14	螺母 Nut	35	316
15	阀盖 Bonnet	WCB	A216-WCB
16	阀座 Seat Ring	A105+ENP	316
17	垫片 Gasket	柔性石墨+不锈钢 Craephot stainless steel	柔性石墨+316 Craephot stainless steel
18	底盖 Bottom cover	A105	316
19	固定轴 Fixed spindle	1Cr13	A276-410
20	螺钉 Screw nial	35	316
21	排污螺钉 Blowoff screw	25	316



Main Performance and Specification / 主要性能及规范

公称压力 PN (MPa) Nominal pressure	最高使用压力 PS (MPa) Useful pressure	试验压力 (MPa) Test pressure		压力级 Pressure class	最高使用压力 PS (MPa) Useful pressure	试验压力 (MPa) Test pressure	
		壳体 Shell	高压液密封 High-pressure liquid sealing			壳体 Shell	高压液密封 High-pressure liquid sealing
1.6	1.6	2.4	1.76	CLASS150	1.94	2.94	2.16
2.5	2.5	3.75	2.75	CLASS300	5.1	7.67	5.62
4.0	4.0	6.0	4.4	CLASS600	10.2	15.3	11.23
6.4	6.4	9.6	7	CLASS900	15.1	23	16.85
10.0	10.0	15	11	CLASS1500	25.1	37.5	27.5
应用规范 Applicable specification		结构长度图 / Physical dimension follows CB12221-89 ANSI B16.10 法兰长度图 / Flange dimension follows JB/T9-89 GB9113 HG20502-87 ANSI B16.5 焊接标准图 / Welding standard follows CB12224-89 ANSI B16.25 检验标准图 / Test and inspection follows JB/T 9092-89 API 598					
适用工况 Applicable Operating Mode		无燃气、液化气、石油等介质 Non-flammable gas, liquefied gas, petroleum and other medium 适用温度 / Applicable temperature ~28℃ ~150℃ 驱动方式 / Driving manner 液动传动、气动、电动、气液联动等 Worm gear, air operated, electric driving, combined air and hydraulic driving, etc.					

详细的安装尺寸请参照本《主要外型及连接尺寸图》
Please refer to the sample book of form of Main Types and Connecting Dimension for particular installation dimension

High-Pressure Forged-Steel Ball Valve

> 高压锻钢球阀

ONERO

Features

产品特点

1. 本产品所有零件均为锻件。
2. 采用下装式阀杆，设置倒密封结构，确保填料处可靠密封及防止填料射出。
3. 采用带帽式阀座，阀座背有设置O型圈，确保介质不外漏。

1. All the components are forged ones.
2. Lower-loading Stem and backward sealing construction have been setup for positive sealing at stuffing position and backing-out protecting of the handle.
3. Interbedded valve seat is applied on whose back RO-ring is also mounted for avoiding the leakage of medium.

Main Parts and Materials

主要零件材质表

零件名称 Accessory name	材质 Material	
	GB	ASTM
阀体、阀盖 Body/bonnet	WCB	A216-WCB
密封圈 Sealing Ring	尼龙Nylon	尼龙Nylon
球体 Ball	1Cr18Ni9Ti	Ss304
阀座、阀杆 Seat, Stem	2Cr12	A246-416
O型圈 ORing	橡胶RUBBER	橡胶RUBBER
双头螺栓 Double-head double-screw bolt	35CrMoA	A193-B7

Main Performance Specification

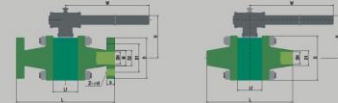
主要性能规范

公称压力 PN (MPa) Nominal diameter	试验压力 Test pressure (mpa)		
	壳体 Shell	高压液密封 High-pressure liquid sealing	低压气密封 Low-pressure hermetic sealing
16.0	24	17.6	0.6
32.0	48	35.2	
适用温度 Applicable temperature		-40 ~ 80℃	
适用介质 Applicable medium		水、油品、蒸气、氨气、液化气等 Water, oil products, nitrogen, ammonia, Hydrogen, and liquefied gas, etc.	



Form of Main Types and Connecting Dimension

主要外型及连接尺寸表



SÄRVELÄ PN (Mpa) Nominal pressure	公称压力 PN (Mpa) Nominal pressure	主要尺寸 (mm) Main dimension														
		L		L1	D		D1		H		W	M	D2	b	Z-Φd	
		法兰 Flange	接管 Connection	法兰 Flange	接管 Connection	法兰 Flange	接管 Connection	法兰 Flange	接管 Connection							
16	10	210	150	52	60	95	90	60	18	77	58	220	M24×2	18	20	3-Φ18
	15	230	170	62	70	95	100	60	23	85	62	220	M24×2	20	20	3-Φ18
	20	240	190	73	80	105	110	68	29	94	75	250	M33×2	28	20	3-Φ18
	25	260	205	77	95	105	115	68	36	100	80	250	M33×2	28	22	3-Φ18
	32		230	100	110	115	150	80	43	120	96	300	M42×2	38	24	4-Φ18
	40	300	260	110	120	165	170	115	49	150	111	400	M52×2	48	30	6-Φ26
	50	400	330	130	140	165	200	115	61	165	128	450	M64×3	58	32	6-Φ26
	65	490	360	140	150	200	225	145	80	180	180	500	M80×3	74	40	6-Φ29
	80	580	380	150	160	225	270	170	105	200	200	600	M100×3	94	50	6-Φ33
	100	620	430	178	188	260	320	190	118	245	245	800	M125×4	115	60	6-Φ36
32	10	210	150	52	60	95	90	60	18	77	58	220	M24×2	18	20	3-Φ18
	15	230	170	62	70	95	100	60	23	85	62	220	M33×2	28	20	3-Φ18
	20	240	190	73	80	105	110	68	29	94	75	250	M33×2	28	20	3-Φ18
	25	260	205	77	95	105	115	68	36	100	80	250	M42×2	35	25	4-Φ18
	32	300	230	100	110	115	150	80	43	120	96	300	M52×2	41	30	4-Φ22
	40	350	260	110	120	165	170	115	49	150	111	400	M64×3	47	35	6-Φ26
	50	400	330	130	140	165	200	115	61	165	128	450	M80×3	70	40	6-Φ26
	65	490	360	140	150	200	225	145	80	180	180	500	M100×3	90	50	6-Φ33
	80	580	380	150	160	225	270	170	105	200	200	600	M125×4	112	55	6-Φ36
	100	620	430	178	188	260	320	190	118	245	245	800	M155×4	135	65	8-Φ39

3PCS Forged Steel Ball Valve

> 三片式锻钢球阀

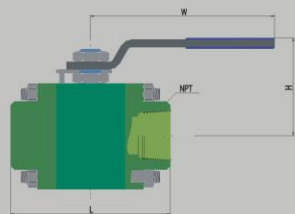
瓊球品牌，以質為本
Ou ball brand, based on quality

Application Standards

适用标准

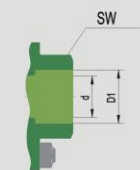
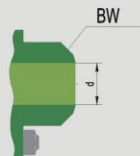
1. 设计和制造标准数据: BS5351 MSS SP-118;
2. 连接端规格:
 - a. 承插端规格: ANSI B16.11;JB/T1751
 - b. 螺纹端规格: ANSI B16.11;JB/T1751
 - c. 对焊端规格: ANSI B16.25;JB/T12224
 - d. 法兰端规格: ANSI B16.5;JB79
3. 检验与试验标准: API 598;GB/T13927;JB/T9092
4. 结构特征: 三片式螺栓连接
5. 材料标准规格: ANSI/ASTM
6. 阀体主要材料: A105;L,F2,F304(L);F316(L);F51

1. Design and manufacture conform to BS5351 MSS SP-118;
2. Connection ends conform to:
 - a. Socket welded ends conform to ANSI B16.11;JB/T1751
 - b. Screw ends conform to ANSI B16.11;JB/T1751
 - c. Butt-welded ends conform to ANSI B16.25;JB/T12224
 - d. Flanged ends conform to ANSI B16.5;JB79
3. Test and inspection conform to: API 598;GB/T13927;JB/T9092
4. Structure features: Bolted bonnet; three-piece
5. Materials conform to ANSI/ASTM
6. Main materials: A105;L,F2,F304(L);F316(L);F51



Form of Major Parts Materials / 主要零件材质表

序号 NO.	零件名称 / Accessory name	材质 / Material	
1	阀体 Body	A105	F304
2	密封圈 Sealing Ring	PTFE & PEEK	
3	球体 Ball	F6	F304
4	阀杆 Stem	410	304
5	O型圈 O-Ring	410	
6	垫片 Gasket	304	
7	螺栓 Bolt	B7	B8
8	螺母 Nut	2H	8
9	薄片螺母 Flat nut	8	



Main Types and Connecting Dimension

主要外型及连接尺寸表

Class 800, 1500

EP	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	92	92	92	111	127	140	152	152
CL 800 CL 1500	6	9	13	19	25	32	38	49
	6	9	13	18	23	28	35	49
H	70	70	70	80	80	105	105	115
W	125	125	125	215	215	250	250	290
重量(Kg) Weight(Kg)	2.5 2.5	2.4 2.4	2.3 2.3	3.4 3.7	5.4 5.8	6.4 6.8	11 11.5	13 13.7

Flang-Connection Four-Way Ball Valve

> 法兰连接四通球阀

ONERO

Features

产品特点

四通球阀为X形垂直通道的球阀，它的特点是球体的两条通道为X形布置，四个通道口径均布于球体赤道圆周截面上，当球体沿顺时针旋转90°时，能使相邻的两个通道实现两两互通。

Four-way direction changeable ball valve is a kind of ball valve with X-pattern vertical bore. Its feature is, the ball valve is two bores are arranged to be X-pattern, and it's four bores are connected to each other.

本阀门系列可配置多种驱动装置
This ball valve can be equipped with several types of operation device.

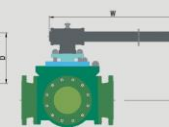
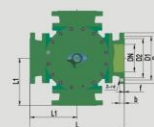
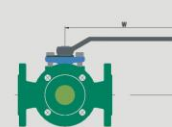
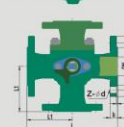


Main parts and materials / 主要零件材质

零件名称 Accessory name	材质/Material	
	GB	ASTM
阀体、阀盖 Body, bonnet	WCB	A216-WCB
密封圈 Sealing Ring	PTFE 对位聚苯 PTFE (DuPont's polyphe)	对位聚苯 PTFE (DuPont's polyphe)
球体 Ball	1Cr18Ni9Ti	Ss304
阀杆、阀杆 Sert Stem	2Cr13	A246-416
双头螺栓 Double head screw bolt	35CrMoA	A193-B7

Main Performance Specification / 主要性能规范

公称压力 PN(MPa) Nominal diameter	试验压力		
	壳体 Shell	高压液密封 High-pressure liquid sealing	低气压密封 Low-pressure hermetic seal
1.6	2.4	1.76	0.6
2.5	3.75	2.75	
4.0	6.0	4.4	
CLASS150	3.0	2.2	
适用工况 Applicable operating mod	适用介质 Applicable medium	水、油品、气等非腐蚀性介质和酸碱腐蚀性介质	
	适用温度 Applicable temperature	-28350℃	
应用规范 Applicable specification	连接法兰 Connecting flange	JB79-59, GB9113, HG20592-97, ANSI B16.5	
	检验试验 Test and inspection	GB973092-99, API598	
其余制造规范均按本厂标准 Other manufacturing standard is according to the standard of our factory.			



Form Of Main Types And Connecting Dimension

主要外型及连接尺寸表

公称压力 Nominal pressure	公称口径 Main dimension	公称通径															
		15/1/2"	20/3/4"	25/1"	32/1 1/4"	40/1 1/2"	50/2"	65/2 1/2"	80/3"	100/4"	125/5"	150/6"	200/8"				
PN1.6MPa	L	150	150	180	200	220	240	260	280	320	380	440	550				
PN2.5MPa	L1	75	75	90	100	110	120	130	140	160	190	220	275				
PN4.0MPa	H	90	90	102	115	135	140	155	185	210	275	305	335				
CLASS150	W	140	140	155	250	250	350	350	420	700	1000	1300	1800				

其余的法兰尺寸请参照样本《主要外型及连接尺寸表》
Please refer to the sample book of Form of Main Types and Connecting Dimension for other flange dimensions.

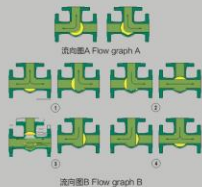
Flange-connection L-shaped(T-shaped) Three-Way ball valve > 法兰连接三通球阀

临球品牌，以质为本
Ou ball brand, based on quality

Features 产品特点

一、两阀座密封三通球阀结构紧凑、外型美观、密封性能好。它能使对管道中流向的切换，也使相互垂直的两个通道连通或关闭（如图A所示）。
二、四阀座密封三通球阀造型美观，结构紧凑合理。它不仅可实现介质流向的切换，也可使三个通道相互连通，同时也可关闭任一通道，使另外两个通道连通。灵活控制管道中介质的合流或分流。（如图B所示）

1. In the double-seat sealing design, the 3-way ball valve enjoys compact structure, good configuration and favorable sealing performance. The valve could make a realization of the switching of flow direction of the medium inside the pipeline. Furthermore, it also could connect or shut-down the two orthogonal passages. (As show in Flow graph A)
2. In the 4-seat sealing design, the 3-way ball valve enjoys reasonable, compact structure and good configuration. The valve could not only make a realization of the switch of flow direction of the medium inside the pipeline, but also connect the 3 passages on another. Meanwhile, the valve also features the capacity of shutting-down one of the 3 passages while connecting the other 2 ones for the flexible control of the convergent flow or shutting of the medium in pipelines. (As show in Flow graph B)



四阀座结构
Four-seat Design



两阀座结构
Double-seat Design

公称通径Nominal diameter : DN15-200mm 1/2"-16
公称压力Nominal pressure : PN1.6-4.0MPa
CLASS:150Lb

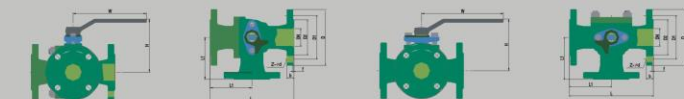
Main parts and materials / 主要零件材质

零件名称 Accessory name	材质Material	
	GB	ASTM
阀体、阀盖Body, bonnet	WCB	A216-WCB
密封圈Sealing Ring	PTFE 对位聚苯 (PTFE Counterpoint polyphenyl)	对位聚苯 (Counterpoint polyphenyl)
球体Ball	1Cr18Ni9Ti	SS304
阀座、阀杆Stem	2Cr13	A246-416
双头螺栓 Double head screw bolt	35CrMoA	A193-B7

备注：三通球阀一般采用两阀座结构，如流向垂直时采用两阀座L型结构（即Q45型），流向图中1和2两种工况均可实现双向密封（即Q45型）。流向图中2和3两种工况均可实现双向密封（即Q45型）。其余工况均可实现双向密封，但在设计时应注明阀座结构，如阀门有其它要求请参照样本《球阀的型号编制方法》中相应的要求代换。

Remarks: Double seat configuration design is generally utilized for 3-way ball valve as shown in the 2 operating conditions in Flow graph A which apply the L-shaped construction with double-seat Type Q45. With regard to the 2 conditions of 1 and 4 in Flow graph B, the T-shaped construction with double-seat could also be applied (Type Q45). In the 2 and 3 conditions in this graph, the choice of the construction must be limited to T-shaped ones with 4-seat (Type Q45). For other kinds of operating conditions, the construction with 4-seat could also be applied; however, the construction of the relevant valve seats should be referred in advance in the control for future delivery for other requirements please refer to the sample of Organizing Method for Types of Ball Valve and fill in corresponding code numbers as required.

Form Of Main Types And Connecting Dimension / 主要外型与连接尺寸表



公称通径 Nominal diameter		公称压力 Nominal pressure															
		15/1/2"	20/3/4"	25/1"	32/1 1/4"	40/1 1/2"	50/2"	65/2 1/2"	80/3"	100/4"	125/5"	150/6"	200/8"				
PN1.6MPa	L	150	150	180	200	220	240	260	280	320	380	440	550				
PN2.5MPa	L	75	75	90	100	110	120	130	140	160	190	220	275				
PN4.0MPa	H	90	90	102	115	135	140	155	185	210	275	305	335				
CLASS150	W	140	140	155	250	250	350	350	420	700	1000	1300	1800				

Flange-Connection - Heating Ball Valve > 法兰连接保温球阀

ONERO

Features 产品特点

该产品有良好的保温保冷特性，且阀门的口径与管径一致，同时又能有效降低管道中的介质热损失，主要用于石油、化工、冶金、制药、食品等各类系统中，以输送常温下会凝固的高粘度介质。由于采用整体式结构，因而保温球阀比一般球阀体积小，重量更轻，且无外漏，密封性能良好，夹套采用碳素钢管焊接比铸造的更加耐压牢固。

The product bears favorable heat-preservation and cold-insulation specialties. In addition, the all-diameter of the valve is identical to pipe diameter to effectively reduce the heat loss from those medium in the pipelines. It is mainly applied to transport the full-bodied mediums which solidify under normal temperature in such fields as petroleum industry, chemical industry, metallurgical industry, pharmaceutical industry, food industry, etc. For the monolithic construction is applied in design, the product, the jacket valve with favorable sealing performance features smaller configuration and weight than traditional ball valves without leakage. More overpressure-resistant and firm capacities are also enjoyed by the jacket made through carbon steel welding than through casting.



Technical Specification / 技术规范

设计标准 design standard	ASME B 16.34 GB/T 12224
结构长度 structure length	ASME B 16.10 GB/T 12221
连接法兰 connecting flange	ASME B 16.5 JB/T 79
驱动方式 driving manner	手动、电动、气动 Manual, motor driving, pneumatic
试验和检验 Test & inspection	JB/T 9092 API598
适用介质 applicable medium	重油、胶类等易凝固介质 Heavy oil, glue and other easy-clotting medium

注：系列阀门连接法兰尺寸可根据用户要求设计。
Notes: The sizes of seal valve connecting flange can be designed according to customer's requirement.

Main Type and Connecting Dimension

主要外型及连接尺寸表

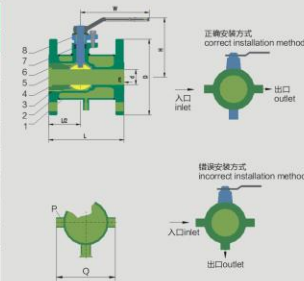
公称通径 (UN) Nominal diameter (mm) (in)	g	L	D	E	Q	H	W	管嘴高 Flange P
20 3/4"	19	117	40 1 1/2"	58.5	147	101	170	G3/4"
25 1"	25	127	50 2"	62.5	156	106	170	G3/4"
40 1 1/2"	38	165	65 2 1/2"	63.5	181	125	250	G3/4"
50 2"	51	178	80 3"	68	218	135	250	G3/4"
80 3"	76	229	150 6"	82	275	193	350	G3/4"
100 4"	102	254	200 8"	83	300	265	420	G3/4"
150 6"	152	292	250 10"	95	403	355	1000	G3/4"
200 8"	203	330	300 12"	100	492	410	1300	G3/4"

备注
Remarks: 法兰尺寸请按对应的管径参照样本《主要外型及连接尺寸表》
Flange dimension refer to the sample book of Main Type and Connecting Dimension, according to the corresponding diameter.

form of Major parts materials / 主要零件材质表

序号 NO	零件名称 Accessory name	材质Materials	
		GB	ASTM
1	夹套Jacket	25	A105
2	阀座Seat	WCB	A216-WCB
3	阀体Body	25	A105
4	密封圈Sealing Ring	PTFE 对位聚苯 PTFE Counterpoint polyphenyl	
5	球体Ball		
6	阀杆Stem	1Cr13	A247-410
7	填料 Stuffing	柔性石墨Graphite	
8	填料压盖 Gland	WCB	A216-WCB

注：系列阀门主要零件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。
Notes: Major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement.



Double-clip Connected Ball Valve > 对夹球阀

瓏球品牌，以质为本
Ou ball brand, based on quality

Features 产品特点

对夹连接球阀具有结构紧凑、体积小、重量轻、密封性能好、启闭灵活、安装方便等特点。主要适用于石油、化工、冶金、制药、食品等各类系统中。
而保温对夹连接球阀良好的保温保冷特性既能有效防止管道中介质凝固，又能降低管道中介质热量的损失。
本系列对夹球阀可装上相应的电动及气动装置，以实现遥控或自动控制。

The Double-clip Connected Ball Valve possess such features as compact structure, smaller volume, lighter ponderance, fine sealing performance, flexible on-off, convenient installation course, etc. It is mainly applied to transport the full-bodied mediums which solidify under normal temperature in such fields as petroleum industry, chemical industry, metallurgical industry, pharmaceutical industry, food industry, etc.
The heating Double-clip Connected Ball Valve enjoys favorable heathold preservation performances which not only effectively prevent the slabby medium in the pipelines from solidifying but also reduce the heat loss of the medium in the pipeline.
The Double-clip Connected Ball Valve series could also be applied with the mounted corresponding motor or air operated plant to implement remote control or automatic control.



公称通径Nominal diameter:
DN15~100mm 1/2"-4"

公称压力Nominal pressure:
PN1.0~2.5Mpa
Class:150Lb JIS:10K

Main Type / 主要型号

普通型 / Nominal type
手动 / Manual (Q71F)
气动 / pneumatic (Q671F)
电动 / motor driving (Q971F)

保温型 / Insulating type
手动 / Manual (Q71F)
气动 / pneumatic (Q671F)
电动 / motor driving (Q971F)

Technical Specification / 技术规范

结构形式 structure form	对夹式 Double-clip type
连接法兰 connecting flange	ANSI B 16.5, JB/T 79
驱动方式 driving manner	手动、电动、气动 Manual, motor driving, pneumatic
试验和检验 Test & inspection	JB/T 9092 API598

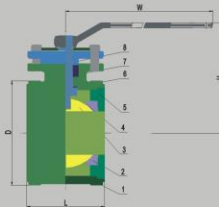
Form Of Major Parts Materials / 主要零件材质表

序号 NO	零件名称 Accessory name	材质 Materials	
		GB	ASTM
1	阀体 Body	CF8	A351-CF8
2	密封圈 Sealing Ring	PTFE, PPL	
3	球体 Ball	0Cr18Ni9	A351-CF8
4	阀杆 Stem	0Cr18Ni9	A276-304
5	阀座 Seat	0Cr18Ni9	A276-304
6	垫片 Gasket	PTFE, PPL	
7	垫片 Gasket	柔性石墨+不锈钢 Graphite+stainless steel	
8	填料 Stuffing	PTFE, PPL	
9	压套 Stuffing cover	0Cr18Ni9	A351-CF8

注：系列阀门主要零件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。
Notes: major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement.

Main Types and Connecting Dimension 主要外型及连接尺寸表

公称通径 (DN)		主要尺寸 (mm)									
		L		D				W		H	
(mm)	(in)			1.0MPa	1.6MPa	2.5MPa	150Lb	10k	手动 Manual	气动 Manual	电动 Manual
15	1/2	40	53	53	53	53	47	58	130	80	
20	3/4	45	63	63	63	63	57	63	170	80	
25	1	50	73	73	73	73	66	74	170	100	
32	1 1/4	60	84	84	84	84	75	84	200	110	
40	1 1/2	70	94	94	94	94	85	89	250	120	
50	2	80	109	109	109	109	103	104	250	130	
65	2 1/2	110	129	129	129	129	122	124	350	140	
80	3	120	144	144	144	144	135	134	350	150	
100	4	164	164	164	170	173	159	420	180		



Integrated, two-section, three-section steel stainless ball valve > 整体式、二段式、三段式不锈钢球阀

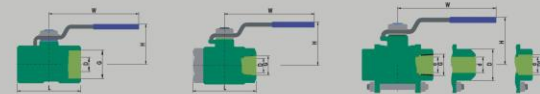
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Main Parts and Materials / 主要零部件名称及材料

型号 Type	零件名称 Accessory name	材料 Material	材料 Material	材料 Material
Q11F-64 R C 整体式 Integral Type	阀体 Body	WCB	CF8, 304	CF8M, 316
	阀座 Seat	WCB	CF8, 304	CF8M, 316
	球体 Ball	1Cr18Ni9Ti	0Cr18Ni9Ti	0Cr17Ni12Mo2
	阀座密封 阀座密封	增强型四氟乙烯、对位聚苯 增强型四氟乙烯、对位聚苯	增强型四氟乙烯、对位聚苯 增强型四氟乙烯、对位聚苯	增强型四氟乙烯、对位聚苯 增强型四氟乙烯、对位聚苯
Q11F-64 P C 二段式 Two-section R Type	止推盘 Pressure disk	聚四氟乙烯、聚四氟乙烯 聚四氟乙烯、聚四氟乙烯	聚四氟乙烯、聚四氟乙烯 聚四氟乙烯、聚四氟乙烯	聚四氟乙烯、聚四氟乙烯 聚四氟乙烯、聚四氟乙烯
	阀杆填料 Stem stuffing	V型聚四氟乙烯、石墨V-shaped V型聚四氟乙烯、石墨V-shaped	聚四氟乙烯、石墨 聚四氟乙烯、石墨	聚四氟乙烯、石墨 聚四氟乙烯、石墨
	螺栓 Bolt	35	304	304
	六角螺母 Hex nut	35	304	304
Q11F-64 R C 三段式 Three-section R Type	弹簧垫圈 Spring washer	中碳 304	中碳 304	中碳 304
	压紧螺母 Spring washer	35	304	304
	弹簧垫圈 Medium carbon	中碳 304	中碳 304	中碳 304
	螺母 Nut	35	304	304
Q61F-64 P C 三段式 Three-section R Type	手柄 Wrench	1Cr18Ni9Ti	304	304
	手柄套 Wrench cover	塑料 Plastics		
	锁紧装置 Lock instrument	1Cr18Ni9Ti	304	304
	水、蒸汽、油品等 Water, vapor and oil products, etc.	不锈钢等耐腐蚀性介质 Stainless steel etc. corrosion resistant medium	不锈钢等耐腐蚀性介质 Stainless steel etc. corrosion resistant medium	不锈钢等耐腐蚀性介质 Stainless steel etc. corrosion resistant medium
适用温度 Applicable temperature		-28~350℃		
应用规范 Applicable temperature		DIN259/2999 - BSPT - NPT或ZG - G		
备注 Remarks	三段式球阀按用户需求可做成外螺纹连接型、卡套型、另可配气动、电动装置。 Three-section ball valve can be made as external thread connection and nipping fork according to the requirements of customers. In addition, it can match pneumatic and moten driving			

Form of Main Types and Connecting Dimension / 主要外型及连接尺寸表



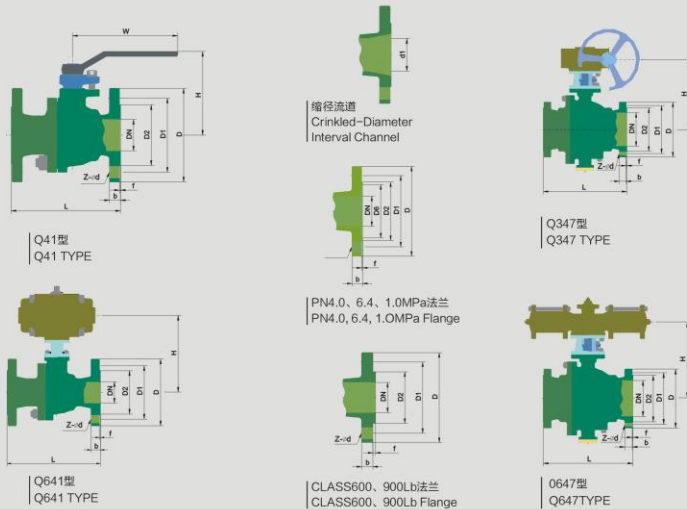
公称通径 DN/mm Nominal diameter	G	L	D	H	W	D1	A
6	1/4	39	57	65	65	4.6	11.6
10	3/8	44	57	65	65	6.8	12.7
15	1/2	56	63.5	67	67	9.2	15
20	3/4	59	75	82	82	12.5	20
25	1	71	89	91	91	15	25
32	1 1/4	78	99	108	108	20	32
40	1 1/2	83	118	129	129	25	38
50	2	100	136	148	148	32	50
65	2 1/2	165	186	193	193	64	64
80	3	184	206	222	222	78	78
100	4	240	273	273	273	98	98

Form of Main Types and Connecting Dimension

> 主要外型及连接尺寸表

欧球品牌，以质为本
Ou ball brand, based on quality

Form of Main Type / 主要外型



Structural Length List for Ball Valves on Main Specifications (Emblem Marks)

主要型号规格球阀的(厂标)结构长度表

在长期的生产实践中，我们发现现有的球阀结构长度标准往往不能适应用户的实际需求。因此，本着一切为用户着想的经营理念，我们综合用户广泛需求及被实际采用的球阀结构长度制定成本，作为本厂定型长度标准供用户选型时参考。选用该表尺寸请在订货合同中注明。

We concluded that the structural length standards of currently-applied ball valves could not always match the actual demand from users after long-term production practice. Therefore, in the managing concept of anything for our customers, we comprehensively studied the most-demanded and actually-applied structural lengths of ball valves from our customers and set these data a list for reference during Pattern-selecting as our enter/Price/ modular length standard. Please give a clear indication of the dimensions in the list in your contract of future delivery.

主要型号 Main Type	公称口径 Nominal diameter	结构长度 Structural length (mm)			
		PN1.6MPa	PN2.5MPa	PN4.0MPa	PN6.4MPa
OQ4 1/2 F	15	130	130	130	140
	20	140	140	140	152
	25	150	180	150	180
	32	165	200	165	200
	40	180	220	180	220
	50	200	216/220	200	216/220
	65	220	241	220	241
	80	250	283	250	283
	100	280	305	280	305
	125	320	356	320	381
OQ34 1/2 F	150	360	394	360	403
	200	400	457	400	502
	250	450	533	450	568
	300	500	610	500	648
OQ64 1/2 F	350	550	686	550	722
	400	600	762	600	838
	450	650	838	650	889
	500	700	914	700	964
OQ94 1/2 F	550	750	991	750	1067
	600	800	1067	800	1143
	650	850	1143	850	1219
	700	900	1219	900	1295

Form of Main Types and Connecting Dimension

> 主要外型及连接尺寸表

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Form of GB Series Main Connecting Dimension / Gb系列主要连接尺寸表

	公称口径 Nominal pressure	公称口径 Nominal pressure	尺寸 Dimension (mm)										重量 Weight			
			L	W	d1	d2	D	D1	D2	b	F	Z-d	W	H	重量 Weight (kg)	
1.0	15	108	140	15	-	95	65	45	14	4-14	130	75	200	-	2.5	-
	20	117	152	20	-	105	75	55	14	4-14	170	84	205	-	3	-
	25	127	165	25	-	115	85	65	14	4-14	170	90	215	-	4.5	-
	32	140	178	32	-	135	100	78	16	4-18	200	107	240	-	6.5	-
	40	165	190	40	-	145	110	85	16	4-18	250	127	265	-	8.5	-
	50	178	216	50	-	160	125	100	16	4-18	250	140	275	-	10	15
	65	190	241	65	-	180	145	120	18	4-18	350	164	380	-	16	20
	80	203	263	80	65	195	160	135	20	4-18	350	177	390	-	19	24
	100	229	305	100	80	215	180	155	20	8-18	420	206	416	-	33	40
	125	356	381	125	100	245	210	185	22	8-23	700	292	542	-	542	55
1.6	150	394	457	150	125	280	240	210	22	8-23	1000	320	475	305	572	82
	200	457	521	200	150	335	295	265	24	8-23	1300	365	610	398	636	140
	250	533	599	250	200	400	355	320	26	12-23	1800	420	650	495	726	240
	300	610	676	300	250	440	400	368	26	12-23	-	-	-	580	859	-
	350	686	762	350	300	500	460	428	26	16-23	-	-	-	625	927	-
	400	762	838	400	350	565	515	482	26	16-25	-	-	-	720	1080	-
	450	864	914	450	350	615	565	532	28	20-25	-	-	-	770	1120	-
	500	914	991	500	400	670	620	585	28	20-25	-	-	-	840	1150	-
	15	108	140	15	-	95	65	45	14	4-14	130	75	200	-	2.5	-
	20	117	152	20	-	105	75	55	14	4-14	170	84	205	-	3	-
2.5	25	127	165	25	-	115	85	65	14	4-14	170	90	215	-	4.5	-
	32	140	178	32	-	135	100	78	16	4-18	200	107	240	-	6.5	-
	40	165	190	40	-	145	110	85	16	4-18	250	127	265	-	8.5	-
	50	178	216	50	-	160	125	100	16	4-18	250	140	275	-	10	15
	65	190	241	65	-	180	145	120	18	4-18	350	164	380	-	16	20
	80	203	263	80	65	195	160	135	20	8-18	350	177	390	-	19	24
	100	229	305	100	80	215	180	155	20	8-18	420	206	416	-	33	40
	125	356	381	125	100	245	210	185	22	8-23	700	292	542	-	542	55
	150	394	457	150	125	280	240	210	24	8-23	1000	320	475	305	572	82
	200	457	521	200	150	335	295	265	26	12-23	1300	365	610	398	736	140
3.0	250	533	599	250	200	405	355	320	30	12-25	1800	420	650	495	890	240
	300	610	676	300	250	460	410	375	30	12-25	-	-	-	580	910	-
	350	686	762	350	300	520	470	435	34	16-25	-	-	-	625	1020	-
	400	762	838	400	350	580	525	485	36	16-30	-	-	-	720	1080	-
	450	864	914	450	350	640	585	545	40	20-30	-	-	-	770	1120	-
	500	914	991	500	400	705	650	608	44	20-34	-	-	-	840	1150	-
	600	1067	1143	600	500	840	770	718	48	20-41	-	-	-	920	1230	-
	700	1245	1346	700	600	910	840	788	50	24-41	-	-	-	990	1310	-
	15	140	140	15	95	-	65	45	16	4-14	130	75	200	-	2.5	-
	20	152	152	20	105	-	75	55	16	4-14	170	84	205	-	3	-
4.0	25	165	165	25	115	-	85	65	16	4-14	170	90	215	-	4.5	-
	32	178	178	32	135	-	100	78	18	4-18	200	107	240	-	6.5	-
	40	190	190	40	145	-	110	85	18	4-18	250	127	265	-	8.5	-
	50	216	216	50	160	-	125	100	20	4-18	250	140	275	-	10	15
	65	241	241	65	180	-	145	120	22	4-18	350	164	380	-	16	20
	80	263	263	80	195	65	160	135	22	8-18	350	177	390	-	19	24
	100	305	305	100	230	80	190	160	24	8-23	420	206	416	-	33	40
	125	381	381	125	270	100	220	188	28	8-26	700	292	542	-	542	55
	150	403	457	150	300	125	250	218	30	8-26	1000	320	475	305	572	92
	200	502	521	200	360	150	310	278	34	12-30	1300	365	620	398	775	192
5.0	250	558	559	250	425	200	370	332	36	12-30	1600	420	660	495	890	-
	300	648	625	300	485	250	430	390	40	16-30	-	-	-	580	910	-
	350	762	762	350	550	300	490	448	44	16-34	-	-	-	625	1020	-
	400	838	838	400	610	350	550	505	48	16-34	-	-	-	720	1080	-
	450	914	914	450	660	350	600	555	50	20-34	-	-	-	770	1120	-
	500	991	991	500	730	400	660	610	52	20-41	-	-	-	840	1150	-
	600	1143	1143	600	840	500	770	718	56	24-41	-	-	-	920	1230	-
	700	1346	1346	700	955	600	875	815	60	24-48	-	-	-	990	1310	-

Form of Main Types and Connecting Dimension

> 主要外型及连接尺寸表

瓊球品牌，以质为本
Ou ball brand, based on quality

Form of GB Series Main Connecting Dimension

Gb系列主要连接尺寸表

Continued from 续表

公称压力 Nominal pressure	公称通径 Nominal diameter	尺寸 Dimension (mm)														重量 Weight (kg)			
		L	d1		D	D1	D2	D6	b	H	W								
			管径 管径	管径 管径							管径 管径	管径 管径	管径 管径	管径 管径					
管径 管径	管径 管径	管径 管径	管径 管径	管径 管径	管径 管径	管径 管径	管径 管径	管径 管径	管径 管径	管径 管径	管径 管径	管径 管径	管径 管径	管径 管径	管径 管径				
15	140	140	-	-	95	65	45	40	16	24	4-14	130	75	200	-	-	4	-	
20	152	152	20	-	105	75	55	51	16		4-14	170	84	205	-	-	4	-	
25	165	165	25	-	115	85	65	58	16		4-14	170	90	215	-	-	5	-	
32	178	178	32	-	135	100	78	66	18		4-18	200	107	240	-	-	7	-	
40	190	190	40	-	145	110	85	76	18		4-18	250	127	265	-	-	9	-	
50	216	216	50	-	160	125	100	88	20	3/4	4-18	250	140	360	-	-	12	18	
65	241	241	65	-	180	145	120	110	22		8-18	350	164	380	-	-	18	2	
80	263	263	80	65	195	160	135	121	22		8-18	350	177	452	-	-	28	3	
100	305	305	100	80	230	190	160	150	24		8-23	420	206	480	-	-	479	46	
125	381	381	125	100	270	220	188	176	28		8-25	700	292	646	-	-	646	75	
150	403	457	150	125	300	250	218	204	30	3/4	8-25	1000	320	666	305	666	106	118	
200	502	521	200	150	375	320	282	260	38		12-30	1300	365	815	398	814	190	245	
250	568	559	250	200	445	385	345	313	42		12-34	-	-	-	-	-	495	890	-
300	648	635	300	250	510	450	408	364	46		16-34	-	-	-	-	-	580	910	-
350	762	762	350	300	570	510	465	422	52		16-34	-	-	-	-	-	625	1020	-
400	838	838	400	350	655	585	535	474	58	4/5	16-41	-	-	-	-	-	720	1080	-
450	914	914	450	350	690	610	560	524	60		20-41	-	-	-	-	-	770	1120	-
500	991	991	500	400	755	670	612	576	62		20-48	-	-	-	-	-	840	1150	-
600	1143	1143	600	500	890	795	730	678	62		20-54	-	-	-	-	-	920	1230	-
700	1346	1346	700	600	995	900	835	768	68		24-54	-	-	-	-	-	990	1310	-
15	165	165	15	-	105	75	55	40	18	24	4-14	170	80	200	-	-	4.5	-	
20	191	191	20	-	125	90	68	51	20		4-18	200	89	205	-	-	8	-	
25	216	216	25	-	135	100	78	58	22		4-18	200	95	215	-	-	8	-	
32	229	229	32	-	150	110	82	66	24		4-23	250	112	240	-	-	12	-	
40	241	241	40	-	165	125	95	76	24		4-23	350	132	265	-	-	14	-	
50	292	292	50	40	175	135	105	88	26	3/4	4-23	350	145	360	-	-	360	18	28
65	330	330	65	50	200	160	130	110	28		8-23	420	169	380	-	-	379	28	38
80	356	356	80	65	210	170	140	121	30		8-23	420	182	452	-	-	452	40	58
100	406	406	100	80	250	200	168	150	32		8-23	700	211	480	-	-	479	65	85
125	508	508	125	100	295	240	202	176	36		8-30	1000	302	646	340	646	98	130	
150	495	495	150	125	340	280	240	204	38	3/4	8-30	1300	330	666	435	666	140	150	
200	597	597	200	150	405	345	300	260	44		12-34	-	-	-	-	-	530	736	-
250	673	673	250	200	470	400	352	313	48		12-41	-	-	-	-	-	615	790	-
300	762	762	300	250	530	460	412	364	54		16-41	-	-	-	-	-	680	870	-
350	826	826	350	300	595	525	475	422	60		16-41	-	-	-	-	-	720	1020	-
400	902	902	400	350	670	585	525	474	66	4/5	16-48	-	-	-	-	-	840	1080	-
500	1054	1054	500	400	800	705	640	576	70		20-54	-	-	-	-	-	925	1200	-
600	1232	1232	600	500	930	820	750	678	76		20-58	-	-	-	-	-	980	1295	-
15	165	165	15	-	105	75	55	40	20		24	4-14	170	80	200	-	-	5.5	-
20	3191	191	20	-	125	90	68	51	22			4-18	200	89	205	-	-	7	-
25	216	216	25	-	135	100	78	58	24	4-18		200	95	215	-	-	8	-	
32	229	229	32	-	150	110	82	66	24	4-23		250	112	240	-	-	10	-	
40	241	241	40	-	165	125	95	76	26	4-23		350	132	265	-	-	18	-	
50	292	292	50	40	195	145	112	88	28	3/4	4-25	350	145	360	-	-	360	25	-
65	330	330	65	50	220	170	138	110	32		8-25	420	169	380	-	-	379	32	-
80	356	356	80	65	230	180	148	121	34		8-25	420	182	452	-	-	452	46	-
100	432	432	100	80	265	210	172	150	38		8-30	700	211	480	-	-	479	75	-
125	508	508	125	100	310	250	210	176	42		8-34	-	-	-	-	-	320	646	-
150	559	559	150	125	350	290	250	204	46	3/4	12-34	-	-	-	-	-	356	666	-
200	660	660	200	150	430	360	312	260	54		12-41	-	-	-	-	-	398	736	-
250	787	787	250	200	500	430	382	313	60		12-41	-	-	-	-	-	445	790	-
300	838	838	300	250	585	500	442	364	70		16-48	-	-	-	-	-	515	870	-
350	889	889	350	300	655	560	498	422	76		20-54	-	-	-	-	-	560	1020	-
400	991	991	400	350	715	620	558	474	80	4/5	20-54	-	-	-	-	-	615	1080	-

Form of Main Types and Connecting Dimension

> 主要外型及连接尺寸表

ONERO

Form of DIN Series Main Connecting Dimension / DIN系列主要连接尺寸表

公称压力 Nominal pressure	公称通径 Nominal diameter	尺寸 Dimension (mm)										重量 Weight (kg)						
		L		d1		D				b	H							
		尺寸 Size	重量 Weight	尺寸 Size	重量 Weight	D	D1	D2	D6		尺寸 Size	重量 Weight						
1.6	15	115	15	10	95	65	45	16	-	-	4-14	130	75	200	-	2.5	-	
	20	120	19	15	105	75	58	18	-	-	4-14	170	84	205	-	3	-	
	25	125	25	19	115	85	68	18	-	-	4-14	170	90	215	-	4.5	-	
	32	130	32	25	140	100	78	18	-	-	4-18	200	107	240	-	6.5	-	
	40	140	38	32	150	110	88	18	-	-	4-18	250	127	265	-	8.5	-	
	50	150	49	38	165	125	102	20	-	-	4-18	250	140	275	-	10	15	
	65	170	64	49	185	145	122	18	-	-	4-18	350	164	390	-	16	20	
	80	180	76	64	200	160	138	20	-	-	8-18	350	177	390	-	19	24	
	100	190	98	76	220	180	158	20	-	-	8-18	420	206	416	-	33	40	
	125	325	123	98	250	210	188	22	-	-	8-18	700	292	542	-	542	55	62
	150	350	148	123	285	240	212	22	-	-	8-22	1000	320	575	305	572	82	118
	200	400	198	148	340	295	268	24	-	-	12-22	1300	365	610	398	736	140	218
	250	450	248	198	405	355	320	26	-	-	12-26	1800	420	650	495	890	240	240
	300	500	298	248	460	410	378	28	-	-	12-26	-	-	-	580	910	-	390
	350	550	337	298	520	470	438	30	-	-	16-26	-	-	-	625	1020	-	510
	400	762	387	337	580	525	490	32	-	-	16-30	-	-	-	720	1080	-	750
	450	864	438	387	-	-	-	-	-	-	20-30	-	-	-	770	1120	-	940
	500	914	489	438	715	600	610	36	-	-	20-33	-	-	-	840	1150	-	1190
	600	1067	591	489	840	770	725	40	-	-	20-36	-	-	-	920	1230	-	2100
	700	1245	692	591	910	840	795	42	-	-	24-36	-	-	-	990	1310	-	3000
2.5	15	115	15	10	95	65	45	16	-	-	4-14	130	75	200	-	2.5	-	
	20	120	19	15	105	75	58	18	-	-	4-14	170	84	205	-	3	-	
	25	125	25	19	115	85	68	18	-	-	4-14	170	90	215	-	4.5	-	
	32	130	32	25	140	100	78	18	-	-	4-18	200	107	240	-	6.5	-	
	40	140	38	32	150	110	88	18	-	-	4-18	250	127	265	-	8.5	-	
	50	150	49	38	165	125	102	20	-	-	4-18	250	140	275	-	10	15	
	65	170	64	49	185	145	122	22	-	-	4-18	350	164	390	-	16	20	
	80	180	76	64	200	160	138	24	-	-	8-18	350	177	390	-	19	24	
	100	190	98	76	235	190	162	24	-	-	8-22	420	206	416	-	416	35	34
	125	325	123	98	270	220	188	26	-	-	8-26	700	292	542	-	542	60	69.5
	150	350	148	123	300	250	218	28	-	-	8-26	1000	320	575	305	572	92	102
	200	400	198	148	360	310	278	30	-	-	12-26	1300	365	610	398	736	175	192
	250	450	248	198	425	370	335	32	-	-	12-30	1800	420	650	495	890	-	288
	300	500	298	248	485	430	395	34	-	-	16-30	-	-	-	580	910	-	468
	350	550	337	298	555	490	450	38	-	-	16-33	-	-	-	625	1020	-	587
	400	762	387	337	620	550	505	40	-	-	16-36	-	-	-	720	1080	-	863
	450	864	438	387	-	-	-	-	-	-	20-36	-	-	-	770	1120	-	958
	500	914	489	438	730	660	615	44	-	-	20-36	-	-	-	840	1150	-	1369
	600	1067	591	489	845	770	720	46	-	-	20-39	-	-	-	920	1230	-	2415
	700	1245	692	591	960	875	820	50	-	-	24-42	-	-	-	990	1310	-	3450
4.0	15	115	13	10	95	65	45	16	-	-	4-14	130	75	200	-	3	-	
	20	120	19	13	105	75	58	18	-	-	4-14	170	84	205	-	4	-	
	25	125	25	19	115	85	68	18	-	-	4-14	170	90	215	-	5	-	
	32	130	32	25	140	100	78	18	-	-	4-18	200	107	240	-	7	-	
	40	180	38	32	150	110	88	18	-	-	4-18	250	127	265	-	9	-	
	50	200	51	38	165	125	102	20	-	-	4-18	250	140	275	-	12	18	
	65	240	64	51	185	145	122	22	-	-	4-18	350	164	390	-	18	23	
	80	260	76	64	200	160	138	24	-	-	8-18	350	177	452	-	28	33	
	100	300	102	76	235	190	162	24	-	-	8-23	420	206	480	-	479	46	55
	125	390	127	102	270	220	188	26	-	-	8-25	700	292	646	-	646	75	81
	150	400	152	127	300	250	218	28	-	-	8-25	1000	320	666	305	666	106	118
	200	500	203	152	375	320	285	34	-	-	12-30	1300	365	815	398	814	190	245
	250	600	254	230	450	385	345	38	-	-	12-34	-	-	-	495	890	-	482
	300	700	305	254	515	450	410	42	-	-	16-34	-	-	-	580	910	-	815
	350	800	337	298	580	515	465	46	-	-	16-36	-	-	-	625	1020	-	930
	400	900	387	337	660	585	535	50	-	-	16-41	-	-	-	720	1080	-	1100
	450	1000	432	357	-	-	-	-	-	-	20-41	-	-	-	770	1120	-	1400
	500	1100	483	387	755	670	615	52	-	-	20-48	-	-	-	840	1150	-	2030
	600	1300	591	483	890	795	735	60	-	-	20-54	-	-	-	920	1230	-	2850
	700	1500	686	591	995	900	840	64	-	-	24-54	-	-	-	990	1310	-	4250

Serial Ball Valves Torque Form

> 系列球阀力矩表

欧球品牌，以质为本
Ou ball brand, based on quality

Floating Ball Valve Torque Form

浮动式球阀力矩表(N.M)

球径 (mm) Globe Size	15	20	25	40	50	65	80	100	125	150	200
1.6	3	5	10	16	25	50	65	125	250	340	485
2.5	3	5	11	18	30	60	80	140	300	400	680
4.0	5	10	24	35	50	100	150	250	450	585	996
6.4	15	30	30	80	100	200	300	400	-	-	-
10.0	19	35	68	130	190	360	460	700	-	-	-
球径 (mm) Globe Size	1 1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
150	3	5	11	16	25	50	65	125	250	410	700
300	7	12	28	38	60	120	160	280	600	950	1550
400	15	30	50	90	140	240	350	540	-	-	-
600	19	35	68	130	190	360	460	770	-	-	-

Trunnion Type Ball Valve Torque Form

固定式球阀力矩表(N.M)

球径 (mm) Globe Size	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800
PN1.6	25	50	65	125	250	340	485	810	1310	1910	2860	4500	5860	8920	13320	24000
PN2.5	30	60	80	140	300	400	680	1140	1870	2740	4150	6500	7800	13210	19830	35420
PN4.0	50	100	150	250	450	585	996	1690	2800	4110	6300	8900	12000	20380	30670	55200
PN6.4	100	200	300	400	650	890	1500	2560	4290	6320	9750	13500	18660	21820	48020	85830
PN10.0	190	300	460	770	1050	1980	3280	5250	7200	9860	14500	19600	29000	42500	58000	82000
球径 (mm) Globe Size	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"
150	20	50	65	125	250	410	700	1100	1750	2600	3900	6200	7500	10500	14500	21000
300	60	120	160	280	600	950	1550	2000	3300	5000	7500	11800	14400	19600	28200	39800
400	140	240	350	540	740	1260	1910	3250	5340	7500	10000	12400	18500	25500	40500	63000
600	190	360	460	770	1050	1980	3280	5250	7200	9860	14500	19600	29000	42500	58000	82000

Three-Way Ball Valve Torque Form

三通球阀力矩表(N.M)

球径 (mm) Globe Size	15	20	25	40	50	65	80	100	125	150	200	250	300
PN1.6	5	8	15	24	35	75	100	180	350	500	730	1210	1950
PN2.5	5	8	16	27	45	90	120	210	450	600	1000	1600	2800
PN4.0	8	15	36	50	75	145	220	350	650	850	1450	2400	4200
球径 (mm) Globe Size	1 1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
Class150	5	8	16	24	38	75	95	185	380	600	1050	1650	2625
Class300	8	16	38	58	90	180	240	420	900	1425	2300	3000	4950

注:以上表中数据未经实际测定, 仅供参考

Notes: The data in the forth are not practically, and just for reference.

Order Notice

> 订货须知



尊敬的用户:

选用本厂的产品, 应根据本样本所列产品型号进行订货, 如对下表格中有特别要求, 一请在订货合同中予以注明:

Dear users:

Selecting the products of our factory, you should order the product type according to this sample listed. If you have special requests to the down form, please indicate in the contracts for future delivery;

法兰标准 / Flange Standard	法兰密封面形式及相关尺寸 Form and correlative dimension for flange sealinn face
结构长度 / Structural length	试验与检验标准及要求 Standard and requests fox test and inspection
阀杆是否加长 / Whether the stem needs lengthen	主体与内件材质的要求 Requests for main body and inside material
使用温度 / Applicable temperature	使用介质成份(是否含颗粒及纤维物等) The components of applicable medium (whether they contain grain, fibers, etc.)
安装环境 / Installation Environment	防火、防静电要求 Request for fire-proofing and static-prevention
阀门开关频率 / Valve switch frequency	对驱动装置的特殊要求 special requests for driving instrment
其它要求 / Other requests	

BALL VALVE STORE

INSTALLATION, USE AND MAINTAIN

球阀的贮存、安装、使用及维护

- 1.球阀可安装于管道的任意位置, 但介质流向与阀体上标示箭头方向应一致。
- 2.安装前应查看阀门的标识及使用工况是否符合现场使用要求。
- 3.安装时, 应清洗管道及阀门内腔, 不允许有任何异物附着。
- 4.安装使用前应进行启闭试验, 查看是否正常。
- 5.球阀应存放在干燥通风的室内, 通径两端应密封, 阀门应处于全开或全关位置。
- 6.长期存放的阀门应定期检查、注意腐蚀, 法兰面应涂防锈油
- 7.球阀在使用过程中应全开或全关, 禁止作调节阀用。

1. Ball valve can be installed in any position of the pipeline, but the flow direction of the medium and the label arrow point direction of the valve should keep in the same direction.
2. You should look over the identification and applicable working situation whether is according with the on-the-spot instructions before installing.
3. The pipeline and the lumen of valve should be cleaned when installing, and is not allowed any unusual matter to adhere to.
4. You should carry out the on and off test before installing to look over whether it is normal.
5. Ball valve should be stored in dry and ventilated room, and two end of the diameter should be sealed, and valve should in the position of on or off.
6. Valve that is deposited for a long time should be checked regularly, blue piece flange face should be painted the antrist oil in case of rusting.
7. Ball valve in the course of using should be turned on or off completely, and is forbidden to use it as regulating valve.