



BALL VALVE

美标球阀

锆练能源科技（上海）有限公司
INO ENERGY EQUIPMENT CO., LTD.

产品介绍 Products





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三通球阀
Three-Way Ball Valve



V型球阀
V Type Ball Valve



气动软密封球阀
Pneumatic Ball Valve Soft Seated



四通硬密封高温高压球阀
4-Way Metal-Seated Ball Valve In High Temperature&High Pressure



煤浆硬密封球阀
Metal-Seated Ball Valve



高温硬密封球阀
Metal-Seated Ball Valve In High Temperature

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液动
Hydraulic



气液联动
Air-hydraulic



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The Characteristic Introduction Of Ball Valve Construction 球阀结构特点介绍

订货号编制方法 Order Numbering System

阀门类别 Type of valve	通道孔方式 Type of port	阀门材料 Valve material	驱动方式 Operation	连接形式 Connection	球类型 Type of ball	结构形式 Construction style	阀杆形式 Stem style	密封形式 Sealing style	
中法兰连接形式 Middle flange connection	支承结构 Supporting Construction	压力等级 Pressure							
阀门类别 Type of valve	球阀 Ball valve								
对照代码 Code	Q								
通道孔方式 Type of port	全径 Full port	缩径 Reduced port	规则孔 Regular port						
对照代码 Code	F	R	G						
阀门材料 Valve material	铸钢 Cast steel	锻钢 Forged steel							
对照代码 Code	1	2							
驱动方式 Operation	手动 Handwheel	蜗轮 Gear	气动 Pneumatic	电动 Electric	气—液联动 Air-hydraulic				
对照代码 Code	0	3	6	9	8				
连接形式 Connection	FF	RF	RTJ	BW	SW	NPT			
对照代码 Code	3	4	5	6	7	1			
球类型 Type of ball	浮动 Floating	固定 Trunnion							
对照代码 Code	1	7							
结构形式 Construction style	一片式 One-piece	二片式 Two-piece	三片式 Three-piece	L三通 L three-way	T三通 T three-way	全焊 Full welded	上装式 Top entry	夹套 Jaketed	低温 Cryogenic
对照代码 Code	1	2	3	4	5	6	7	8	9
阀杆形式 Stem style	加长 Extended								
对照代码 Code	3								
密封形式 Sealing style	软密封 Soft seal	硬密封 Hard seal							
对照代码 Code	1	2							
中法兰连接形式 Middle flange connection	螺栓连接 Bolt connected	螺纹连接 Threaded	焊接 Welded						
对照代码 Code	B	M	W						
支承结构 Supporting Construction	内置 Internal	外置 External							
对照代码 Code	I	II							
压力等级 Pressure	150	300	600	800	900	1500	2500	1000PSI	
对照代码 Code	1	3	6	8	9	5	2	7	

连接端形式 **Types of end connections**

连接端形式：突面法兰、全平面法兰、环连接法兰、对焊端连接、螺纹连接、承插焊连接和组合连接等多种形式，也可按客户的要求。

焊接端的制造根据ASME B16.25，需要用户提供管子的壁厚。

Types of end connections raised face flanged ends flat faces flanged ends ring joint type flanged ends welding ends Butt-weld threaded socket weld and combined ends and so on. We can manufacture per the request by clients The welded ends in standard valves are machined in accordance with ASME B16.25. The customer should clearly specify the pipe wall thickness.



法兰连接：突面
Flanged Ends:RF



法兰连接：环连接
Flanged Ends:RTJ



法兰连接：全平面
Flanged Ends:FF



对焊端
BW



承插焊连接
SW

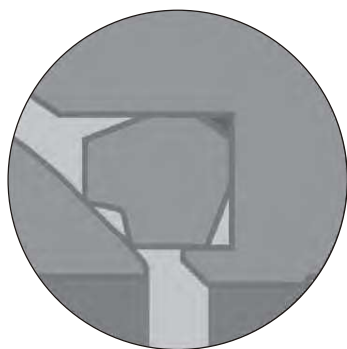


螺纹连接
NPT

阀座的可靠性密封 The Reliable Seat Sealing

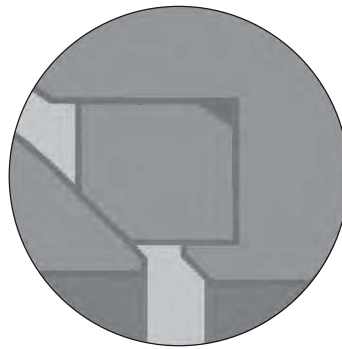
浮动球阀采用弹性密封圈结构设计,当介质压力较小时,密封圈与球体接触面积较小,在密封圈与球体接触形成较大的密封比压,确保可靠密封.当介质压力较大时,随着密封圈的弹性变形,密封圈与球体的接触面积的增大,故密封圈承受大的介质推力而不会损坏.

Floating ball valve use the flexible sealing ring construction. When the medium pressure is low, the Touching face between the sealing ring and ball is little to make the larger sealing comparative pressure to make sure the sealing. When the medium pressure is higher with the flexible distortion of the sealing ring, the touching area becomes larger between the sealing ring and ball, so the sealing ring can endure larger medium thrust and avoid damage.



介质压力小时

When the medium pressure is low



介质压力大时

When the medium pressure is high

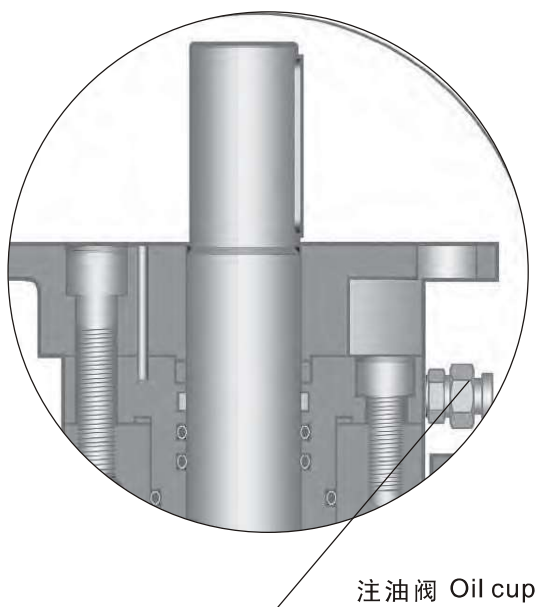
阀体密封 Body Sealing Construction



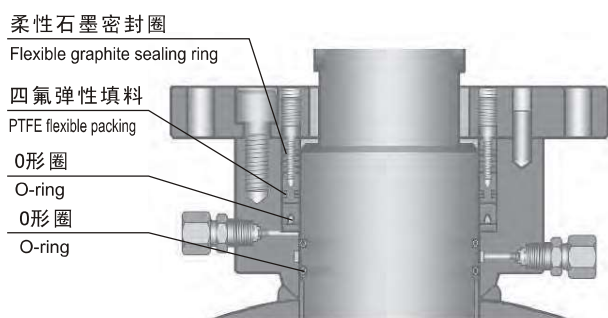
阀门所有的静止结合处都使用了O型圈和石墨垫片的双密封,因此阀门具有良好的密封和防火特点。

Perfect sealing and fire safe feature are granted by the use of a double sealing action of o-rings and graphite gaskets in all the static joints of the body components.

阀杆密封结构 Packing Sealing Construction



O形圈结构
O-Ring Construction



多层次组合密封结构
Several Combined Seals Construction

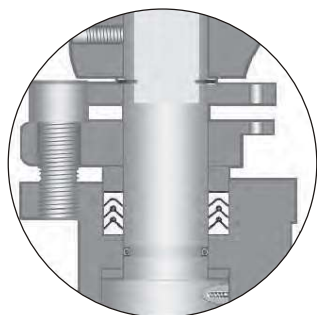
阀杆与阀体有良好密封性能，这种密封通过O形圈和压盖板上的石墨垫片来达到。不管在什么情况下，只需打开连接盘，通过密封脂注射装置释放掉O形圈和石墨垫片之间的压力，就可以更换石墨垫片。阀杆O形圈因意外事故损坏时，可通过密封脂注射装置注射密封脂，防止介质通过阀杆泄漏。另外可注油润滑减少阀杆与O形圈、阀杆与填料间磨损。

The stem and body have good sealing performance. This kind of sealing depends on O-rings and the graphite gasket on gland plate. When everit starts, we just need to open the mounting plate and release the pressure between O-ring & graphite gasket via sealant injection fitting, then we can change the graphite gasket. When the stem O-ring is damaged by accident, we can inject the sealant via sealant injection fitting to avoid the leakage through stem. And on the other side, the sealant can reduce the friction.

阀杆与阀体具有多层次组合结构密封，这种密封是通过柔性石墨密封圈、四氟弹性填料、O形圈来达到。此结构密封可靠，具有防火功能和内压自密封功能，使用寿命长，更换方便，便于在线拆装。

There are several combined seals which have flexible graphite sealing ring,PTFE flexible packing,O-ring to seal between the stem and body.This kind of sealing construction is reliable,have the function as fire safe and inner pressure sealed sealing. Their endurance life is longer,convenient to replace,easy to dismantle or install on the pipeline.

The Characteristic Introduction Of Ball Valve Construction 球阀结构特点介绍



填料结构
Packing Construction



填料压紧前
Before Packing Compressed

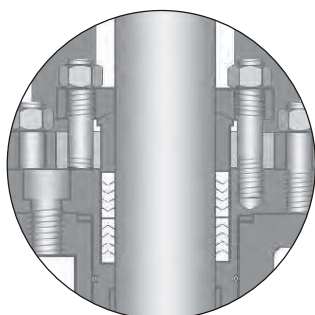


填料压紧后
After Packing Compressed

阀杆部位通常采用V型成型填料密封，V型填料能将填料压盖的压紧力及介质力有效地转化成阀杆的密封力。使密封可靠，维护方便。

另外也能按照客户的要求提供不同的填料类型和材料。

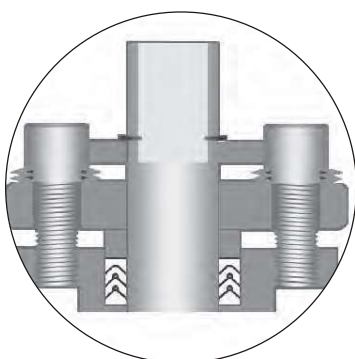
The stem uses the V type packing sealing construction. V type packing can transform the compaction force and the medium force of packing gland into sealing force of stem efficiently. To make the sealing reliable and the maintenance convenient, we can also provide other different packing and material according to the requirement of clients.



真空结构
Vacuum Construction

采用二组V型填料，"∧"形向上放置，确保阀门在强度及正压时阀杆与填料的密封。在真空负压时，上面一组"V"填料可以很好的阻隔大气分子向阀门内的扩散，真空度可以达到 10^{-8} bar.

Adopt the 2 sets v type packing, the below packing set is placed like "∧". Make sure the sealing between stem and packing when valve is in pressure. When it is in vacuum negative pressure, the above V packing can be a good barrier preventing the proliferation of atmosphere molecule into valve. The vacuum extent can be 10^{-8} Bar.



动载填料结构
Live Loading Stem Packing System

利用蝶形弹簧把力施加到填料压盖上以自动补偿填料密封材料的磨损，长期保护密封比压，使阀杆填料密封可靠，使用寿命延长。

Use the butterfly spring to the packing compaction construction loading sealing can keep the force from sealing in a long time to make the stem packing sea reliable and enduring.

防火结构设计 Fire Safe Design

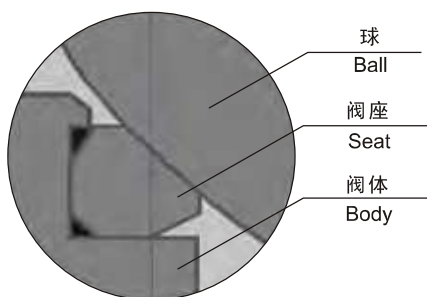
在阀门的使用现场发生火灾时，当聚四氟乙烯等非金属材料制作的阀座密封圈在高温下分解或破坏，能够借助金属辅助密封结构，起密封作用。根据API 607/API 6FA规范。

When there is a fire on site and PTFE and other non-metal material seat ring are decomposed or destructed under high pressure, the special design metal assistant sealing construction can help us to control the inside & outside leakage. Fire-Safe Design per API 607/API 6FA

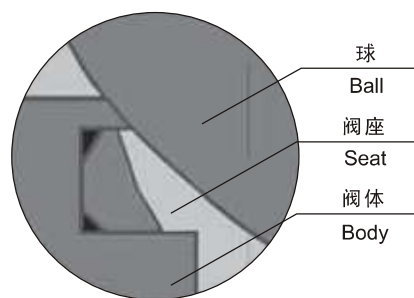


防火试验 Fire-safe test

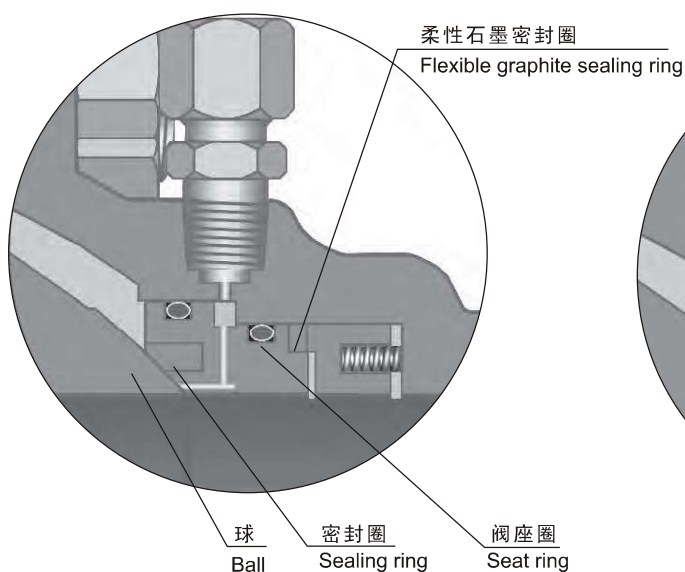
The Characteristic Introduction Of Ball Valve Construction 球阀结构特点介绍



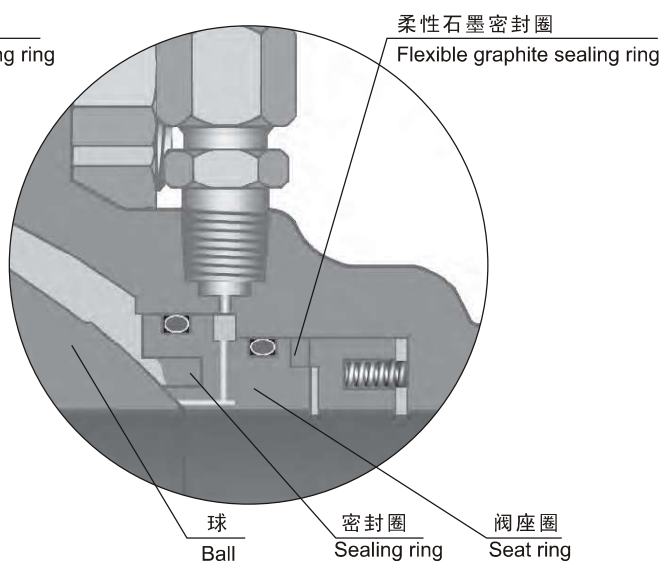
正常情况下密封
Sealing in normal working condition



损坏情况下密封
Sealing when the sealing ring damaged



正常情况下密封
Sealing in normal working condition

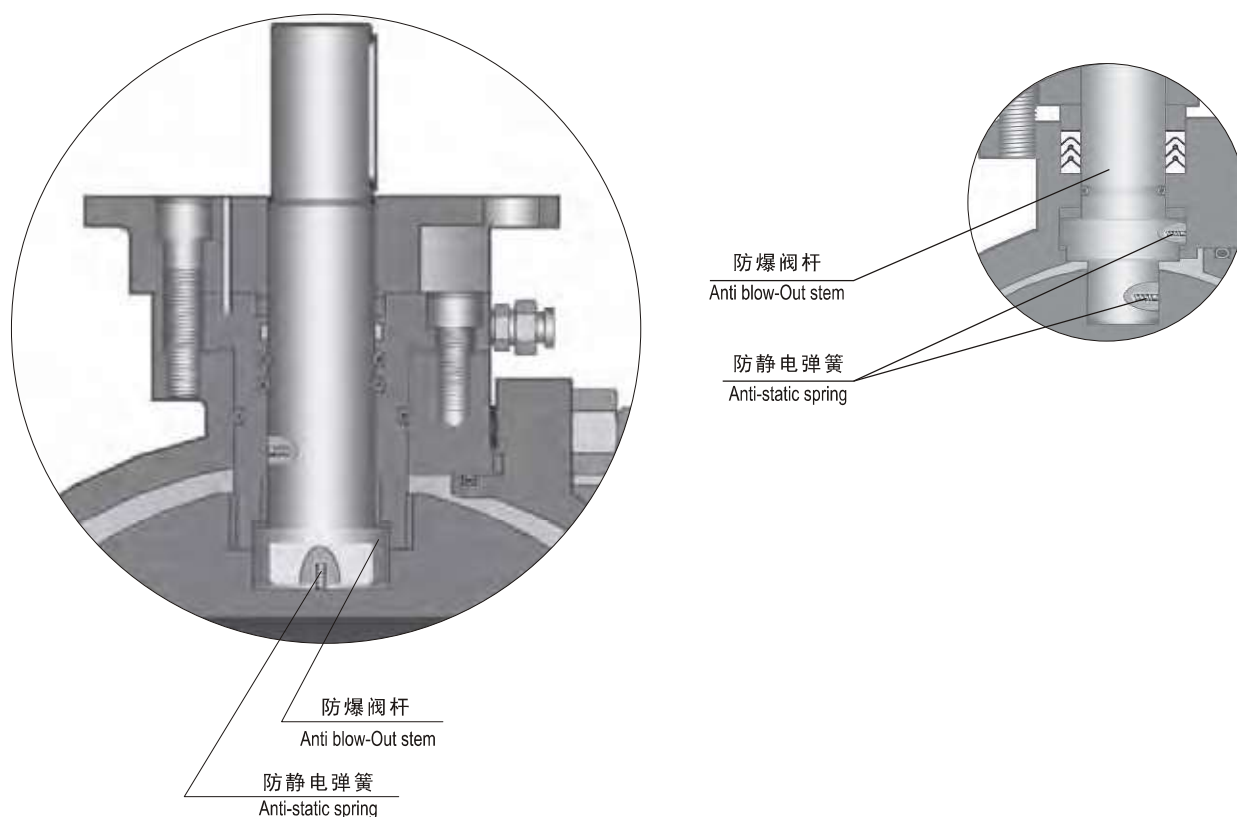


损坏情况下密封
Sealing when the sealing ring damaged

防静电，防爆设计 Anti-Blown Out Anti-Static Design

采用弹簧和小球静电引出装置，通过阀杆使球与阀体之间形成静电通道，从而可将球与阀座开关过程中摩擦产生的静电通过阀体引到大地，防止静电火花可能引起的火灾或爆炸等危险。阀杆采用防爆结构设计，在阀腔异常升压情况下，采用下装阀杆，通过阀体上的台阶或上装阀杆和填料箱螺钉的定位，保证了阀杆不会被介质吹出。

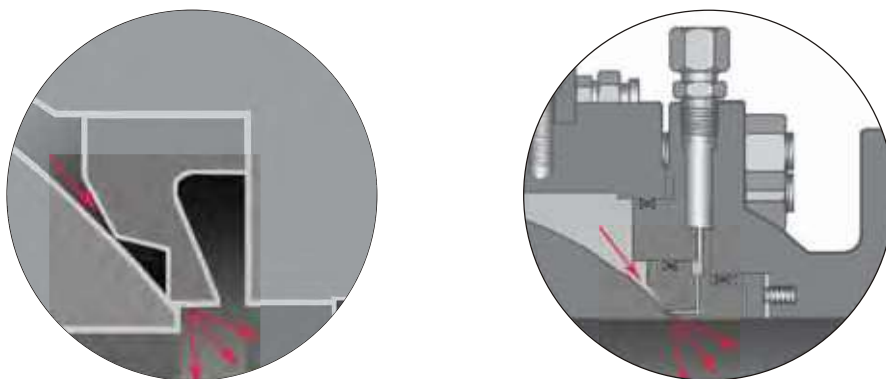
Use the spring and small ball design, making the ball and body form a static bore stem, so that the static caused by ball and seat friction can be imported to earth to avoid the fire or explosion by static light. The stem uses the anti-blown out design. Under the abnormal pressure in cavity, it can ensure the stem will be blown out by medium under the help of the limited screw of the body and packing box.



阀门中腔的自动泄压 Automatically Drain Plug on Body

当滞留在阀门中腔的介质由于温度升高或产生物理化学反应导致中腔压力异常升高时,能够依靠其本身的作用力推动阀座而自动泄压,从而确保阀门的安全.

When the medium in the cavity has physical or chemical changes with the rising of temperature and results in the abnormal increase of cavity pressure. The construction design can push the seat depending on itself to release the pressure to make sure the safety of the valve.



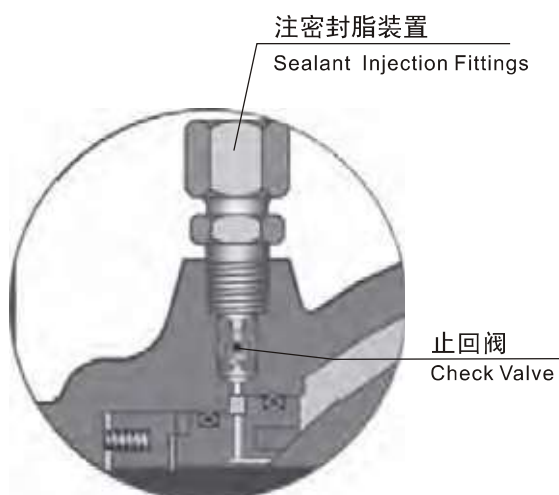
双阻塞及泄放功能 Double Bleed & Block



固定球阀采用球前阀座密封结构。固定球阀的两个阀座能够独立切断进口的介质,实现双阻断功能。当球阀关闭时,即使阀门进出中两端同时受压,阀门中腔和两端通道也可以被阻断,中腔内的残留介质、污物可以通过泄放阀排出。

Trunnion mounted ball valve generally use the seat sealing before ball construction. The two seats in the trunnion mounted ball valve can close the inlet and outlet respectively to implement the double block. When the valve is closed, even the both ends have pressure, the cavity and the bore can be blocked. The rest medium in the cavity can be discharged all to the drain plug.

密封脂紧急注射装置 Sealant Emergenly Injection Fittings



当阀座密封圈因意外事故损坏时，可通过密封脂注射装置达到辅助密封注射密封脂，达到辅助密封,以防止介质通过阀座密封圈泄漏。

When the seat sealing ring is damaged by accident, we can inject the sealant via sealant emergency injection fittings to avoid the leakage by seat sealing ring .

带锁装置和防止误操作 With Locking device & Avoid Operation Mistale



设置了带锁孔的90° 开关定位片,根据需要可以加锁,防止误操作.阀杆头部安装手柄的部位采用扁形设计,当阀门开启时,手柄与管路平行,当阀门关闭时,手柄与管道垂直,能够确保阀门的开关指示不会发生错误.

We put a 90 switch limited plate with locking holes,the valve can be locked when needed. To avoid operation mistakes , the head of stem where put the lever adopts flat design. When the valve is open, the lever is parallel with pipeline.When the valve is closed, lever is vertical with the pipeline ,to make sure the open-close instruction without mistake .

驱动装置安装平台的设置 The design of the top works for actuator

借助支架和连接盘，便于安装齿轮传动装置，电动装置和气动装置。

With yoke and mounting plate, it is convenient to install the gear, electric and pneumatic actuator.

全通径或缩径 Full port or reduced port

可根据需要选用全通径或缩径结构，全通径阀门流量孔径与管线内径一致，便于管线清扫。

Full port or reduced port can be selected acc. to requirement. Full bore valves have the same bore as the inner bore of the pipeline, convenient for PIG service.

加长阀杆 Extended stem

对于安装在地下的阀门，根据安装和操作的需要，可对阀门的阀杆进行加长加长阀杆尺寸按客户的要求。所有的排水管、排气管和紧急注密封脂都相应加长，其他相关管道紧贴着阀门的加长部位。

For valves to be installed on underground lines, at the need of the installation & operation, all the drain, vent and emergency sealant lines are extended and all relevant pipes are firmly attached to the stem extension.

加长颈阀盖 Extended cap

对于要求在低温下工作的阀门，通过加长颈阀盖，增加了阀体和阀杆密封区的距离，避免了温度对密封的影响。加长的高度根据标准的规定，也可根据客户的要求。

The extended cap is mainly increased the distance between body and stem sealing area, to avoid the influence by the temperature. The extended length is according to SJV's Standard or can be in accordance with the requirements of clients.



低温性能试验 Cryogenic testing

驱动装置 Pneumatic Actuator

驱动装置：手柄，齿轮箱，电动，气动，气-液联动

Actuator: Wrench , gear , electric , pneumatic , Air-hydraulic



手柄 Wrench



T型手柄 T Lever



齿轮箱 Gear



双作用气动头(手动液压)
double action pneumatic actuator (Hand-operated)



双作用气动头
Double action pneumatic actuator



气液联动
Air-hydraulic

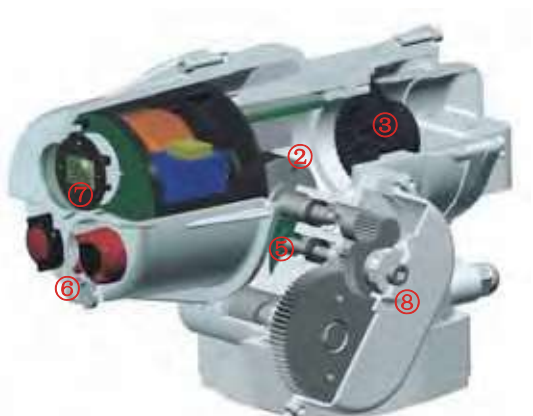
The Characteristic Introduction Of Ball Valve Construction 球阀结构特点介绍



部分回转电动装置
Part-turn actuator



部分回转电动装置
Part-turn actuator



部分回转电动装置
Part-turn actuator



部分回转电动装置
Part-turn actuator

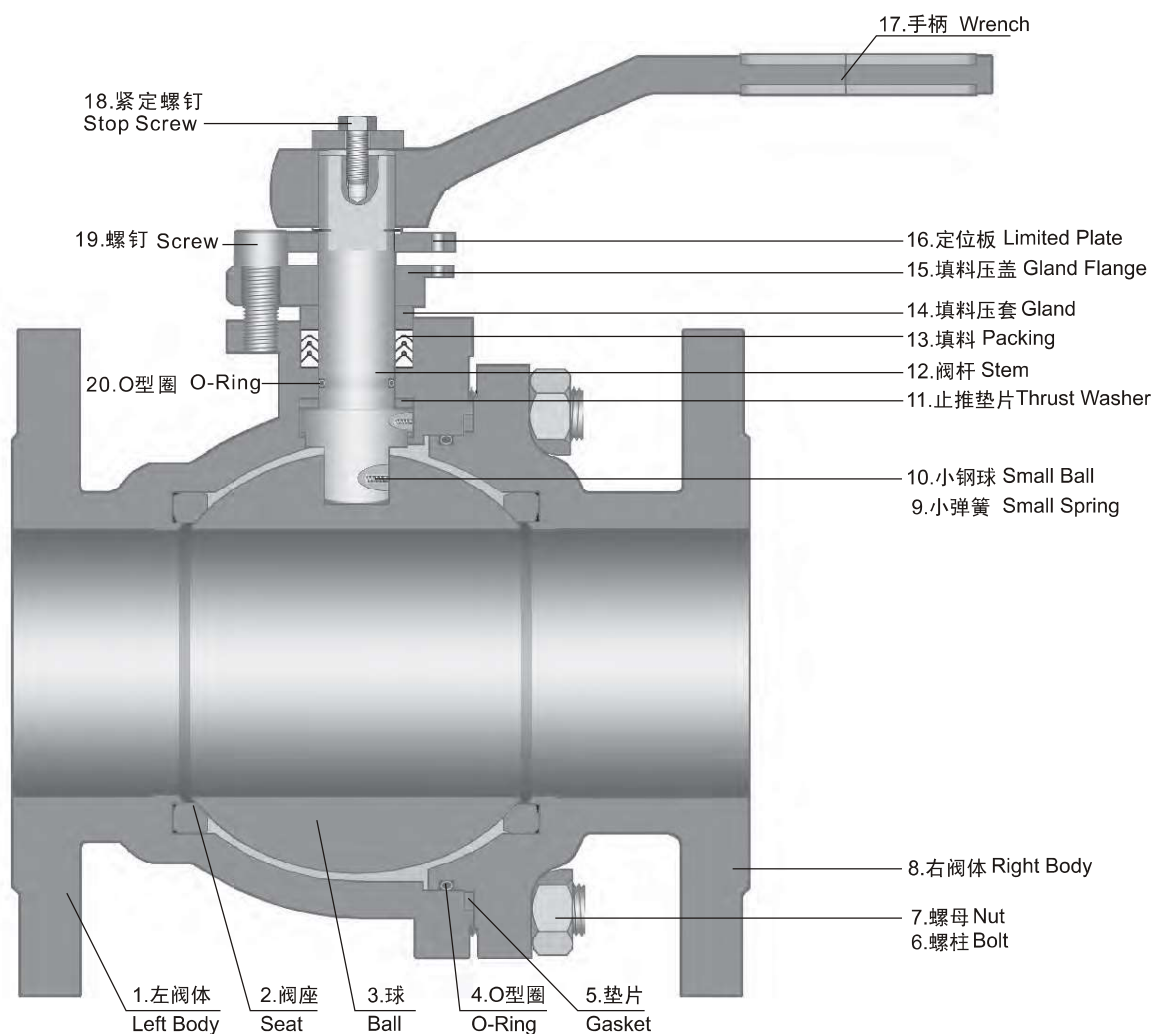


- | | |
|----------|----------|
| 1. 力矩测量 | 5. 阀位控制 |
| 2. 电机及驱动 | 6. 离地控制 |
| 3. 接线端子箱 | 7. 红外线设定 |
| 4. 推力座 | 8. 手动操作 |

- | | |
|-----------------------|---------------------------|
| 1. Torque measurement | 5. Valve position control |
| 2. Motor and actuator | 6. Land-off control |
| 3. Connection end box | 7. Infrared designation |
| 4. Thrust box | 8. Manual operation |

二片式浮动球阀主要结构图形

2PC Floating Ball Valve Major Features



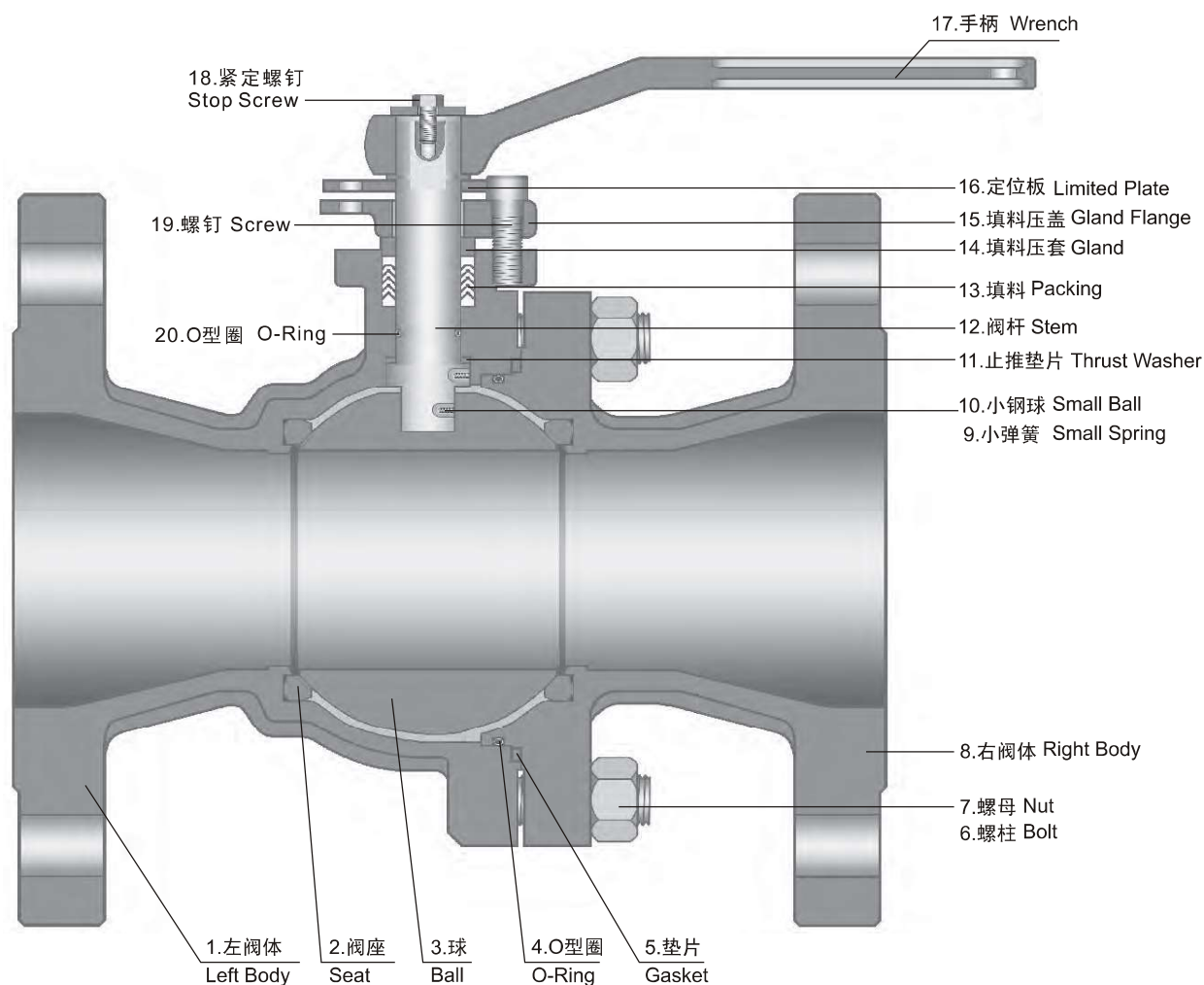
主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D, ASME B16.34, API 608, MSS-SP-72(BS5351)
结构长度尺寸 (End to End Dimension):	API 6D, ASME B16.10
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D, API 598
防火设计 (Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)	

CAST STEEL BALL VALVE 铸钢球阀

二片式缩口浮动球阀主要结构图形

2PC Reduced Floating Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72
结构长度尺寸 (End to End Dimension):	ASME B16.10, API 6D
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D, API 598
防火设计 (Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)	

主要材料 Main Material

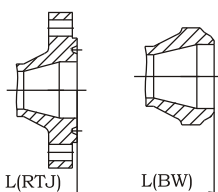
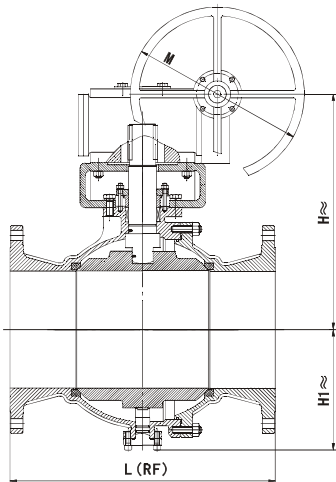
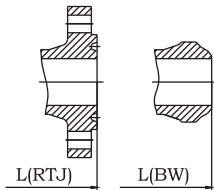
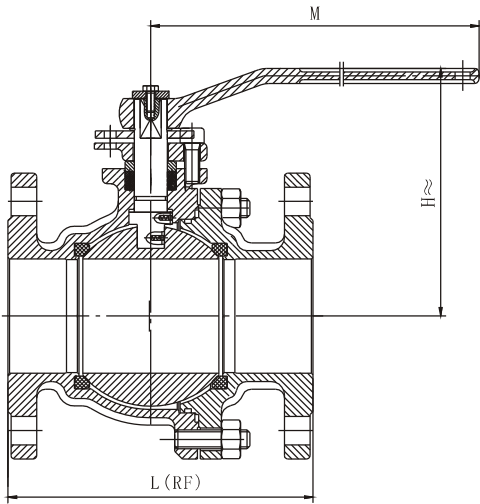
序号 No.	名称 PART NAME	材料 MATERIAL
1	左阀体 Left Body	A216-WCB、WCC, A352-LCB、LCC, A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
2	阀座 Seat	PTFE、RPTFE、PEEK、PPL、POM、KARBATE、NYLON、MOLON、DEVLON
3	球 Ball	A105+ENP, A350 LF2+ENP, A182 F6、F304、F304L、F316、F316L、F51、F53、ALLOY-20, SS321
4	O形圈 O-Ring	VITON, NBR
5	垫片 Gasket	Flexible Graphite+304, Flexible Graphite+316, PTFE
6	螺栓 Bolt	A194-2H、2HM、8、8M
7	螺母 Nut	A193-B7、B7M、B8、B8M
8	右阀体 Right Body	A216-WCB、WCC, A352-LCB、LCC, A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
9	小弹簧 Small Spring	SS304,SS316
10	小钢球 Small Ball	SS304,SS316
11	止推垫片 Thrust Washer	PTFE、RPTFE、STAINLESS STEEL+N
12	阀杆 Stem	A276-T410、304、304L、316、316L、321, ALLOY-20, 1045+ENP, A182-F51、F53,4140+ENP,17-4PH
13	填料 Packing	Flexible Graphite, PTFE
14	填料压套 Gland	A276-304、304L、316、316L、321, ALLOY-20, A182-F51, F53
15	填料压盖 Gland Flange	A216-WCB、A351-CF8
16	定位板 Limited Plate	1025, Stainless Steel
17	手柄 Wrench	A216-WCB
18	紧定螺钉 Screw	1035
19	螺钉 Screw	A193-B7, B8
20	O形圈 O-Ring	VITON

CAST STEEL BALL VALVE 铸钢球阀

二片式浮动球阀结构形式及尺寸表

2PC Floating Ball Valve Construction and Dimension

CLASS 150Lb



SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1/2 × 3/8 G	108	-	140	79	140	2.5
1/2	108	-	140	79	140	2.5
3/4 × 1/2 G	117	-	152	79	140	3
3/4	117	-	152	96	160	3
1 × 3/4 G	127	140	165	96	160	4.5
1 × 1/2 R	127	140	165	79	140	3.2
1	127	140	165	96	160	4.5
1 1/4	140	152	178	102	180	5.2
1 1/2 × 1 R	165	178	191	96	160	5.5
1 1/2 × 1 1/4 G	165	178	191	102	180	5.5
1 1/2	165	178	191	118	200	6.5
2 × 1 1/4 R	178	191	216	102	180	5.7
2 × 1 1/2 G	178	191	216	118	200	6
2	178	191	216	147	250	9
2 1/2	191	203	241	152	300	14
3 × 2 R	203	216	283	147	250	14
3 × 2 1/2 G	203	216	283	152	300	16
3	203	216	283	153	350	19
4 × 2 1/2 R	229	241	305	152	300	23
4 × 3 G	229	241	305	153	350	26
4	229	241	305	204	400	32
6 × 3 R	267	279	403	153	350	32
6 × 4 G	267	279	403	204	400	57
6	394	406	457	342	750	67
8 × 4 R	292	305	419	204	400	65
8 × 6 G	292	305	419	342	750	75
8 R	457	470	521	456	300※	130
10 × 6 R	330	343	457	342	750	-
10 × 8 G	330	343	457	456	300※	145
10	533	546	559	511	400※	250
12 × 10 G	610	622	635	511	400※	290
14 × 10 R	686	699	762	511	400※	320
16 × 10 R	762	775	838	511	400※	360
12	610	622	635	517	600※	470
14 × 12 G	686	699	762	517	600※	490
16 × 12 G	762	775	838	517	600※	520
18 × 12 R	864	876	914	517	600※	535
14	686	699	762	569	800※	500
16 × 14 G	762	775	838	569	800※	541
18 × 14 G	864	876	914	569	800※	589
20 × 14 R	914	927	991	569	800※	620
16	762	775	838	680	800※	810
18 × 16 G	864	876	914	680	800※	850
18	864	876	914	692	800※	920

Ⓔ 规则孔(Regular bore); Ⓕ 缩孔Reduce bore; ※ 齿轮箱操作.

■ W 指RF法兰面球阀重量(The W in the table means weight of Therefore End Ball Valve)

CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
$\frac{1}{2} \times \frac{3}{8}$ [Ⓒ]	140	151	140	79	140	3
$\frac{1}{2}$	140	151	140	79	140	3.5
$\frac{3}{4} \times \frac{1}{2}$ [Ⓒ]	152	165	152	79	140	4
$\frac{3}{4}$	152	165	152	90	160	4
$1 \times \frac{3}{4}$ [Ⓒ]	165	178	165	90	160	4.5
$1 \times \frac{1}{2}$ [Ⓔ]	165	178	165	79	140	3.2
1	165	178	165	94	160	5
$1\frac{1}{4}$	178	191	178	102	160	8
$1\frac{1}{2} \times 1$ [Ⓔ]	191	203	191	94	160	5.5
$1\frac{1}{2} \times 1\frac{1}{4}$ [Ⓒ]	191	203	191	102	160	5.5
$1\frac{1}{2}$ [Ⓔ]	191	203	191	120	200	11
$2 \times 1\frac{1}{4}$ [Ⓒ]	216	232	216	102	160	5.7
$2 \times 1\frac{1}{2}$	216	232	216	120	200	6
2	216	232	216	142	250	13
$2\frac{1}{2}$ [Ⓔ]	241	257	241	158	300	25
3×2 [Ⓒ]	283	298	283	147	250	14
$3 \times 2\frac{1}{2}$	283	298	283	158	300	28
3 [Ⓔ]	283	298	283	170	350	30
$4 \times 2\frac{1}{2}$ [Ⓒ]	305	321	305	158	300	33
4×3	305	321	305	170	350	38
4 [Ⓔ]	305	321	305	210	400	45
6×3 [Ⓒ]	403	419	403	170	350	48
6×4 [Ⓔ]	403	419	403	210	400	57
6 [Ⓒ]	403	419	403	366	800	90
8×4	419	435	419	210	400	75
8×6 [Ⓒ]	419	435	419	366	800	100
8 [Ⓔ]	502	518	521	440	400※	201
10×8	568	584	559	440	400※	222
12×8 [Ⓒ]	648	664	635	440	400※	252
10 [Ⓔ]	568	584	559	525	700※	350
12×10 [Ⓔ]	648	664	635	525	700※	381
14×10	762	778	762	525	700※	420
16×10	838	854	838	525	700※	461
12	648	664	635	590	800※	539
14×12 [Ⓒ]	762	778	762	590	800※	567
16×12 [Ⓒ]	838	854	838	590	800※	612
18×12 [Ⓔ]	914	930	914	590	800※	650
14	762	778	762	649	800※	838
16×14 [Ⓒ]	838	854	838	649	800※	878
18×14 [Ⓒ]	914	930	914	649	800※	920
20×14 [Ⓔ]	991	1010	991	649	800※	1002
16	838	854	838	683	800※	1167
18×16 [Ⓒ]	914	930	914	683	800※	1257
18	914	930	914	729	900※	1526

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
$\frac{1}{2} \times \frac{3}{8}$ [Ⓒ]	165	163	165	85	160	4
$\frac{1}{2}$	165	163	165	85	160	4.5
$\frac{3}{4} \times \frac{1}{2}$ [Ⓒ]	191	191	191	85	160	6
$\frac{3}{4}$	191	191	191	93	200	7
$1 \times \frac{3}{4}$ [Ⓒ]	216	216	216	93	200	8
$1 \times \frac{1}{2}$ [Ⓔ]	216	216	216	85	160	6.6
1	216	216	216	99	200	10
$1\frac{1}{4}$	229	229	229	100	200	15
$1\frac{1}{2} \times 1$ [Ⓔ]	241	241	241	99	200	13
$1\frac{1}{2} \times 1\frac{1}{4}$ [Ⓒ]	241	241	241	100	200	17
$1\frac{1}{2}$	241	241	241	117	200	20
$2 \times 1\frac{1}{4}$ [Ⓔ]	292	295	292	100	200	21
$2 \times 1\frac{1}{2}$ [Ⓒ]	292	295	292	117	200	28
2	292	295	292	180	350	27
$2\frac{1}{2}$	330	333	330	210	400	45
3×2 [Ⓔ]	356	359	356	180	350	33
$3 \times 2\frac{1}{2}$ [Ⓒ]	356	359	356	210	400	51
3	356	359	356	244	700	56
$4 \times 2\frac{1}{2}$ [Ⓔ]	432	435	432	210	400	58
4×3 [Ⓒ]	432	435	432	244	700	63
4	432	435	432	265	800	95

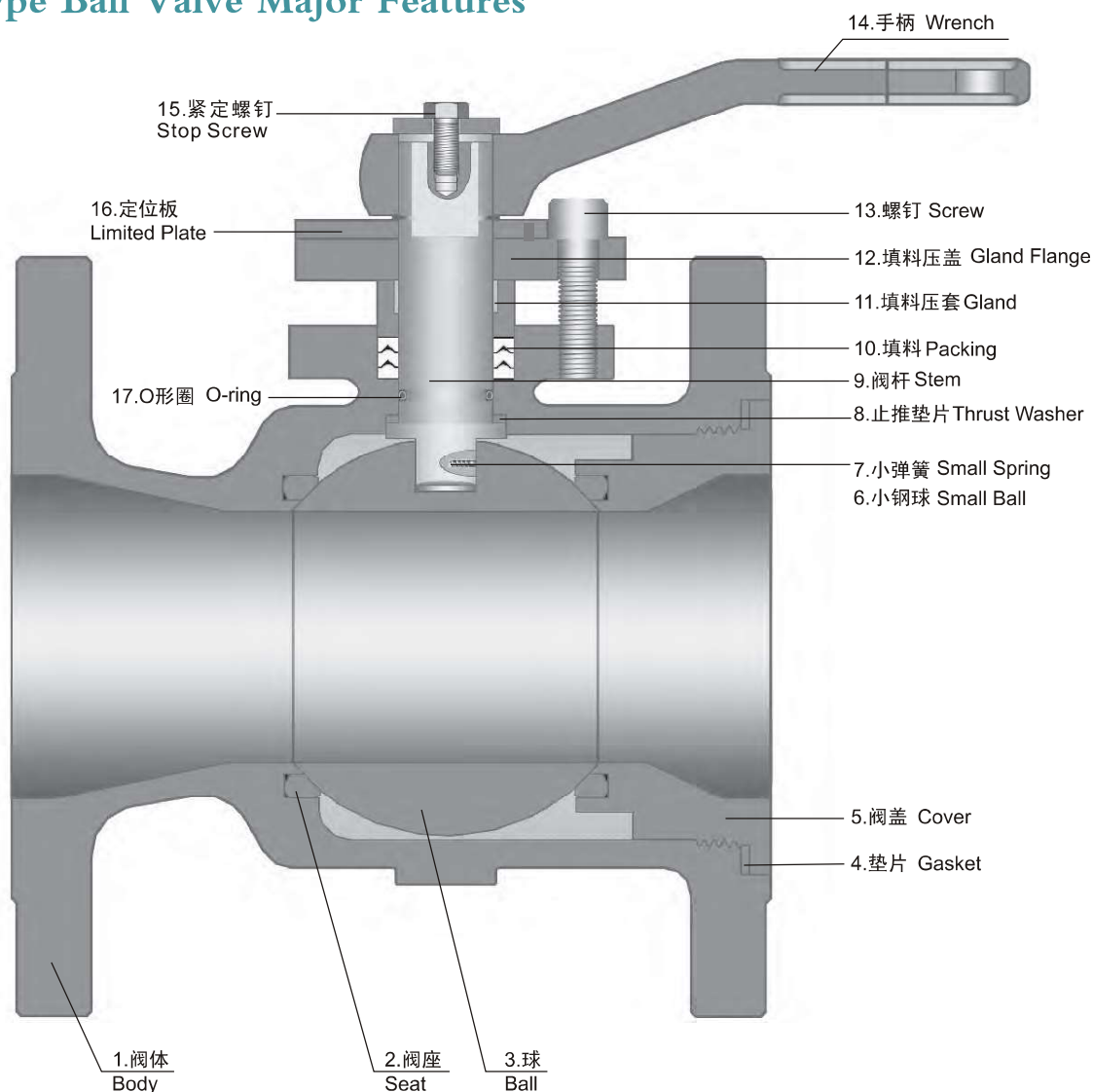
Ⓒ 规则孔(Regular bore); Ⓔ 缩孔Reduce bore; ※ 齿轮箱操作.

■ W 指RF法兰面球阀重量(The W in the table means weight of Therefore End Ball Valve)

CAST STEEL BALL VALVE 铸钢球阀

一片式球阀主要结构图形

1PC Type Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72
结构长度尺寸 (End to End Dimension):	ASME B16.10, API 6D
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 598, API 6D
防火设计 (Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)	

主要材料 Main Material

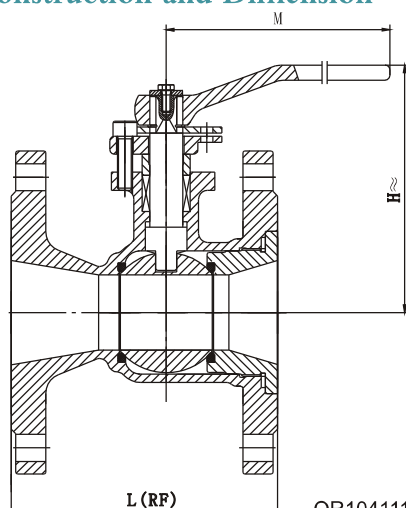
序号 No.	名称 PART NAME	材料 MATERIAL
1	阀体 Body	A216-WCB、WCC, A352-LCB、LCC, A351-CF8、CF8M、CF3、CF3M、 CN7M、CF8C、CD4MCu、CN-3MN
2	阀座 Seat	PTFE、RPTFE、PEEK、PPL、POM、KARBATE、NYLON、MOLON、DEVLON
3	球 Ball	A105+ENP, A350 LF2+ENP, A182 -F6、F-304、F304L、F316、316L、F321、F51、 F53, ALLOY-20,
4	垫片 Gasket	Flexible Graphite+304, Flexible Graphite+316, PTFE
5	阀盖 Cover	A216-WCB、WCC, A352-LCB、LCC, A351-CF8、CF8M、CF3、CF3M、 CN7M、CF8C、CD4MCu、CN-3MN
6	小弹簧 Small Spring	SS304,SS316
7	小钢球 Small Ball	SS304,SS316
8	止推垫片 Thrust Washer	PTFE、RPTFE、STAINLESS STEEL+N
9	阀杆 Stem	1045+ENP,A276-410、304、304L、316、316L、321, ALLOY-20, 4140+ENP, 17-4PH,F51,F53
10	填料 Packing	Flexible Graphite, PTFE
11	填料压套 Gland	A276-T410、304、304L、316、316L、321, ALLOY-20, F51、F53
12	填料压盖 Gland Flange	A216-WCB、A351-CF8
13	螺钉 Screw	1025, Stainless Steel
14	手柄 Wrench	A216-WCB
15	紧定螺钉 Stop Screw	AISI 1035
16	定位板 Limited Plate	1035, Stainless Steel
17	O形圈 O-Ring	VITON

CAST STEEL BALL VALVE 铸钢球阀

一片式球阀

1 PC Type Ball Valve Construction and Dimension

CLASS 150Lb~300Lb



QR104111M1~QR104111M3

CLASS 150Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1½	165	178	191	96	160	5.5
2	178	191	216	118	200	6
2½	191	203	241	125	250	10
3	203	216	283	147	250	14
4	229	241	305	153	350	26
6	267	406	457	204	400	54
8	292	470	521	342	750	72

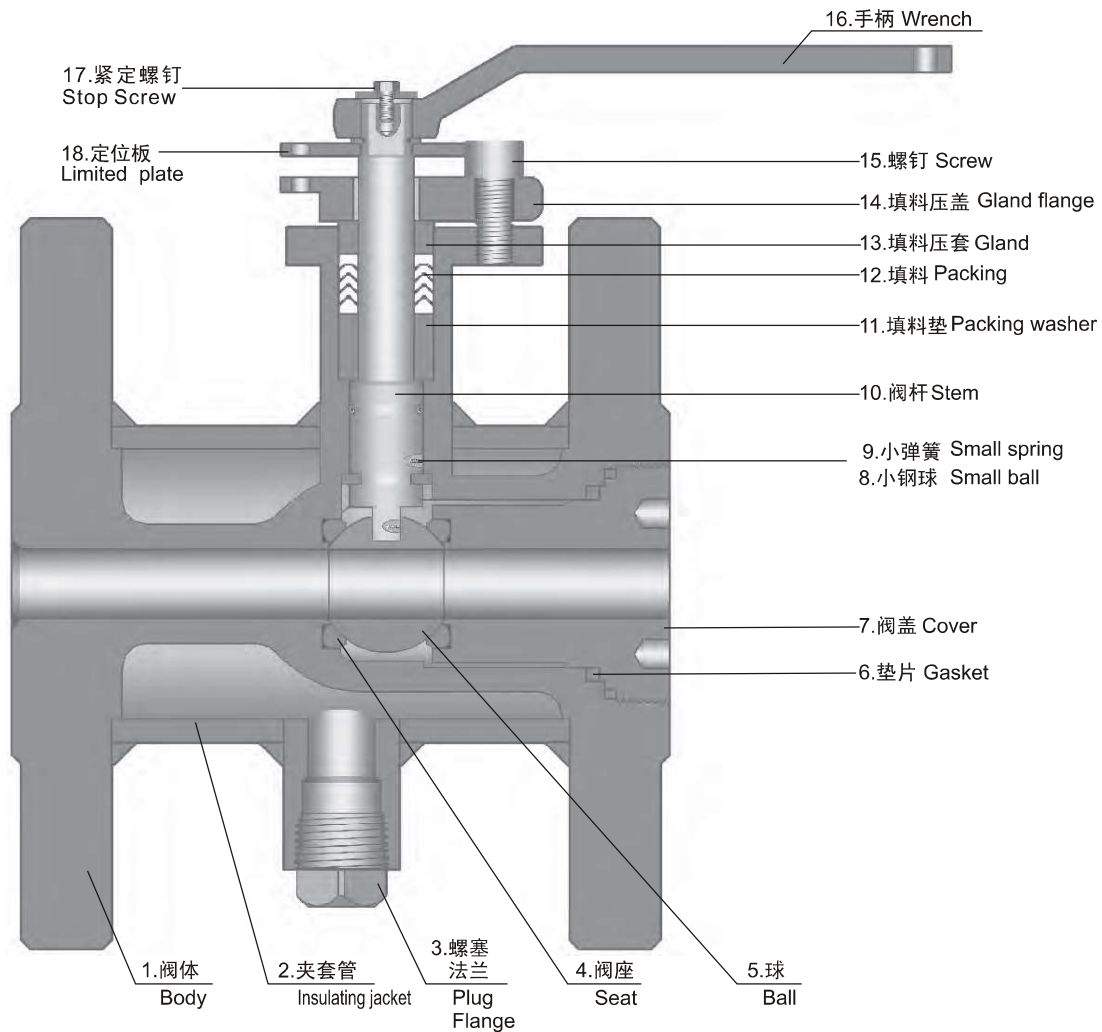
CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1½	191	203	191	100	160	8
2	216	232	216	120	200	11
2½	241	257	241	142	250	12
3	283	298	283	147	250	13.5
4	305	321	305	163	350	35
6	403	419	403	210	400	72
8	419	518	521	366	—	150

■W 指RF法兰面球阀重量(The W in the table means weight of Therefore End Ball Valve)

保温夹套球阀主要结构图形

Jacketed Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	ASME B16.34(BS5351),API 608,MSS-SP-72
结构长度尺寸 (End to End Dimension):	ASME B16.10
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 598
	API 607/6FA

CAST STEEL BALL VALVE 铸钢球阀

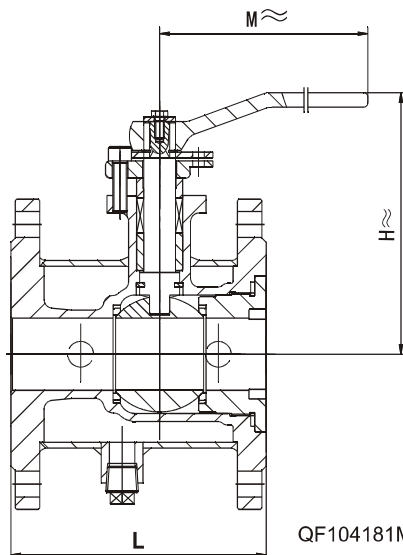
主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	阀体 Body	A216-WCB、WCC, A351-CF8、CF8M、CF3, CF3M、CN7M, CF8C、CD4MCu, CN-3MN
2	夹套管 Insulating jacket	1020,SS304
3	螺塞 Plug 法兰 Flange	1025,SS304
4	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、MOLON、DEVLON、POM、KARBATE
5	球 Ball	A105+ENP, A182-F6、F304、F316、F304L、F316L、F51、F53、F321、ALLOY-20
6	垫片 Gasket	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND、PTFE
7	阀盖 Cover	A216-WCB、WCC, A351-CF8、CF8M、CF3, CF3M、CN7M, CF8C、CD4MCu、CN-3MN
8	小钢球 Small ball	SS304,SS316
9	小弹簧 Small spring	SS304,SS316
10	阀杆 Stem	A276-T410、304、304L、316、316L、321, ALLOY-20, 1045+ENP, 17-4PH、4140+ENP、F51、F53.
11	填料垫 Packing washer	A276-T410,304,304L、316、316L、ALLOY-20、SS321,F51、F53
12	填料 Packing	PTFE,GRAPHITE
13	填料压套 Gland	A276-T410、304、304L、316、316L, ALLOY-20、SS321,F51、F53
14	填料压盖 Gland flange	A216-WCB, A351-CF8
15	螺钉 Screw	1035,STAINLESS STEEL
16	手柄 Wrench	A216 WCB
17	紧定螺钉 Stop Screw	AISI 1035
18	定位板 Limited plate	1035,STAINLESS STEEL

保温夹套球阀

Jacketed Ball Valve Construction and Dimension

CLASS 150Lb~300Lb



QF104181M1~QF104181M3

CLASS 150Lb

SIZE (in)	FLANGE SIZE (in)	L(RF) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1/2	1/4	108	79	140	3.8
3/4	1/2	117	96	160	4.5
1	2	127	96	160	6
1 1/2	2 1/2	165	118	200	10
2	3	178	147	250	14.2
2 1/2	4	191	152	300	18.5
3	6	203	153	350	25.3
4	8	229	204	400	38
6	10	394	342	800	100
8	14	457	456	-	165

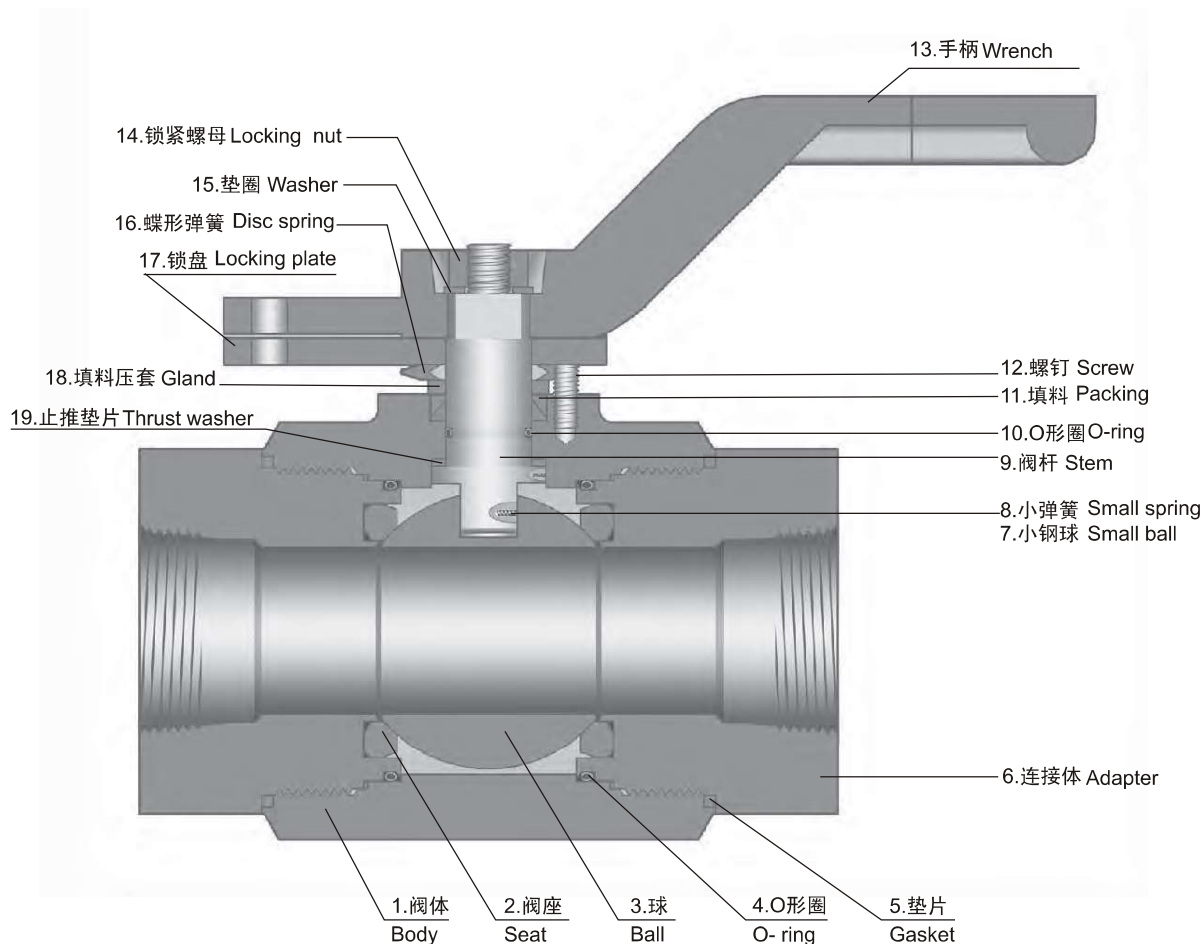
CLASS 300Lb

SIZE (in)	FLANGE SIZE (in)	L(RF) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1/2	1/4	140	79	140	4.5
3/4	1/2	152	96	160	5.5
1	2	165	100	160	8
1 1/2	2 1/2	191	120	200	14
2	3	216	147	250	18.2
2 1/2	4	241	152	300	23.5
3	6	283	163	350	36.8
4	8	305	210	400	57
6	10	403	366	-	119
8	14	502	480	-	216

CAST STEEL BALL VALVE 铸钢球阀

三片式螺纹连接丝口和承插焊球阀主要结构图形

3PC Threaded and Socket Welded Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	ASME B16.34(BS5351),API 608,MSS-SP-72
结构长度尺寸 (End to End Dimension):	按厂标(Manufacturer's specification)
螺纹端连接尺寸 (Threaded ends Dimension):	ASME B1.20.1
承插焊端连接尺寸 (socket welded ends Dimension):	ASME B16.11
检查和试验 (Test and Inspection):	API 598
防火设计(Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆(Anti-Static Design&Anti Blow-Out Stem)	

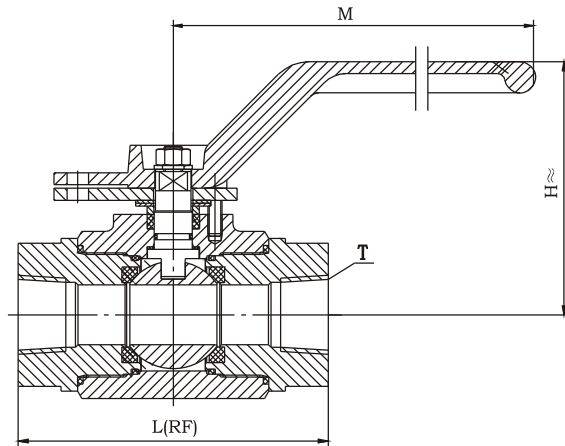
主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	阀体 Body	A216-WCB, A351-CF8、CF8M、CF3, CF3M、CN7M, CF8C、CD4MCu、CN-3MN
2	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
3	球 Ball	A105+ENP, A182-F6、F304、F316、F304L、F316L、F321、F51、F53, ALLOY-20
4	O形圈 O- ring	NBR、VITON
5	垫片 Gasket	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND,PTFE
6	连接体 Adapter	A216-WCB, A351-CF8、CF8M、CF3, CF3M、CN7M, CF8C、CD4MCu、CN-3MN
7	小钢球 Small ball	SS304,SS316
8	小弹簧 Small spring	SS304,SS316
9	阀杆 Stem	1045+ENP, A182-F6、F304、F316、F304L、F316L、F321、F51、F53,ALLOY-20、4140+ENP、17-4PH
10	O形圈 O-ring	VITON
11	填料 Packing	PTFE,GRAPHITE
12	螺钉 Screw	1035、STAINLESS STEEL
13	手柄 Wrench	A216 WCB
14	锁紧螺母 Locking nut	1045、STAINLESS STEEL
15	垫圈 Washer	AISI 1566, STAINLESS STEEL
16	蝶形弹簧 Disc spring	AISI 1566, STAINLESS STEEL
17	锁盘 Locking plate	1025, STAINLESS STEEL
18	填料压套 Gland	A276-T410、304、304L、316、316L、321, F51、F53、ALLOY-20
19	止推垫片 Thrust washer	PTFE、RPTFE、STAINLESS STEEL+N

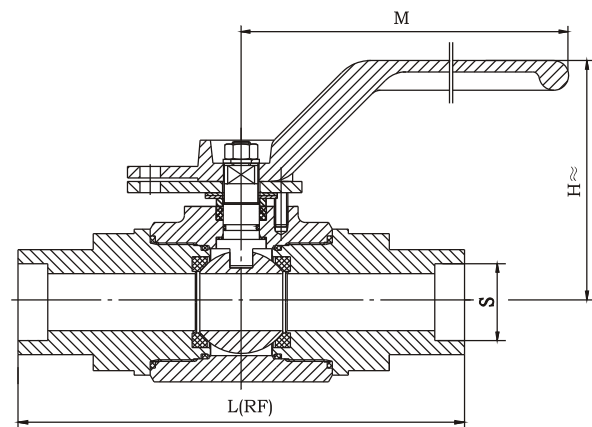
CAST STEEL BALL VALVE 铸钢球阀

三片式螺纹连接丝口和承插焊球阀结构形式及尺寸表

3PC Threaded & Socket Welded Ball Valve Construction and Dimension CLASS 150Lb~1500Lb



QF101131M1~QF101131M5



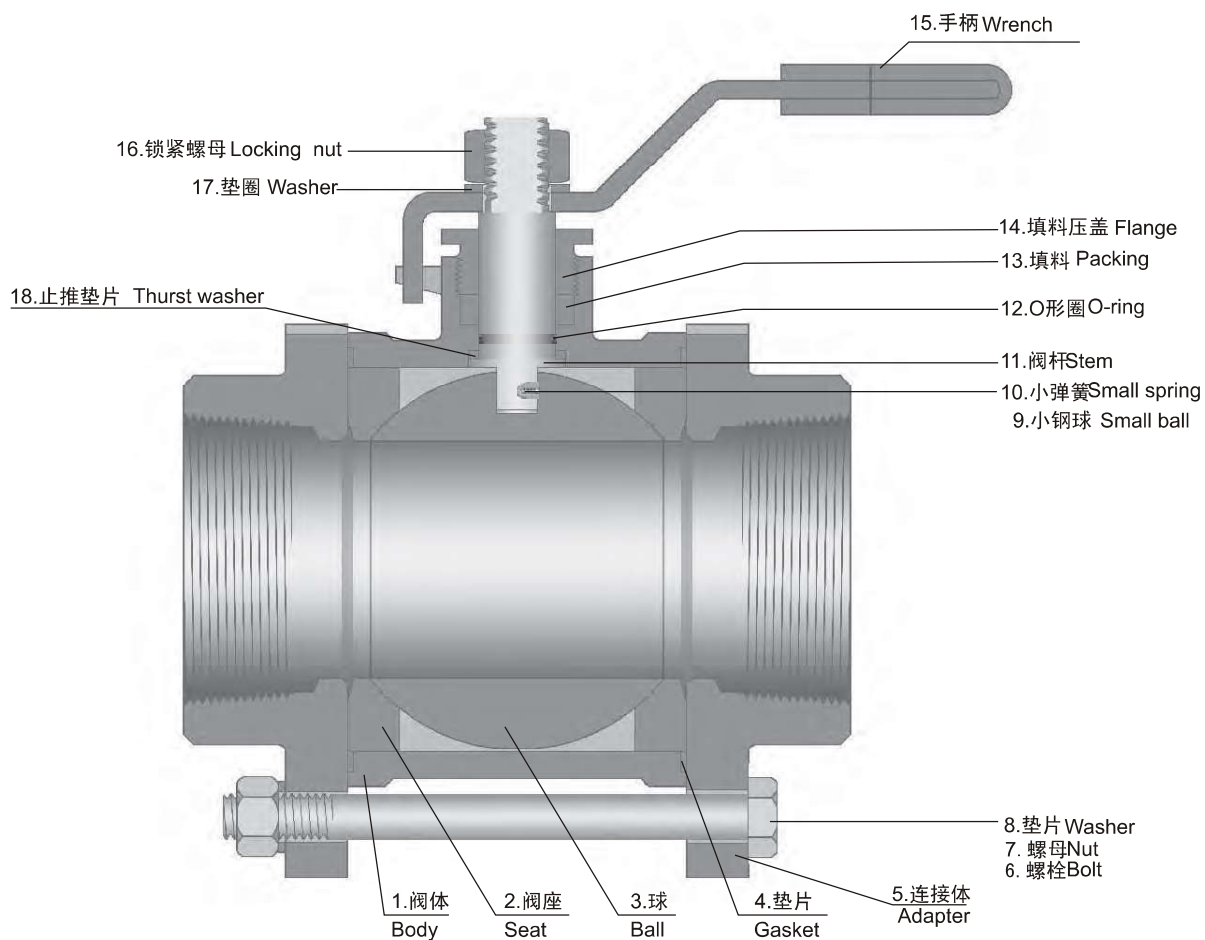
QF107131M1~QF107131M5

CLASS 150Lb~ CLASS 1500Lb

SIZE (in)	L (mm)		T (mm)	S (mm)	H ≈ (mm)	M ≈ (mm)	W ≈ (kg)	
	NPT	SW					NPT	SW
1/2	95	170	1/2	21.8	85	160	0.5	0.7
3/4	112	176	3/4	27.1	93	180	1.0	1.2
1	130	196	1	33.8	106	200	2.3	2.5
1 1/2	158	226	1 1/2	48.7	124	250	6.5	7.0
2	180	262	2	61.1	139	300	9.8	10

三片式螺栓连接丝口球阀主要结构图形

3PC Threaded Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

ASME B16.34(BS5351),API 608,MSS-SP-72

结构长度尺寸 (End to End Dimension):

按厂标(Manufacturer's specification)

螺纹端连接尺寸 (Threaded ends Dimension):

ASME B1.20.1

检查和试验 (Test and Inspection):

API 598

防火设计(Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆(Anti-Static Design&Anti Blow-Out Stem)

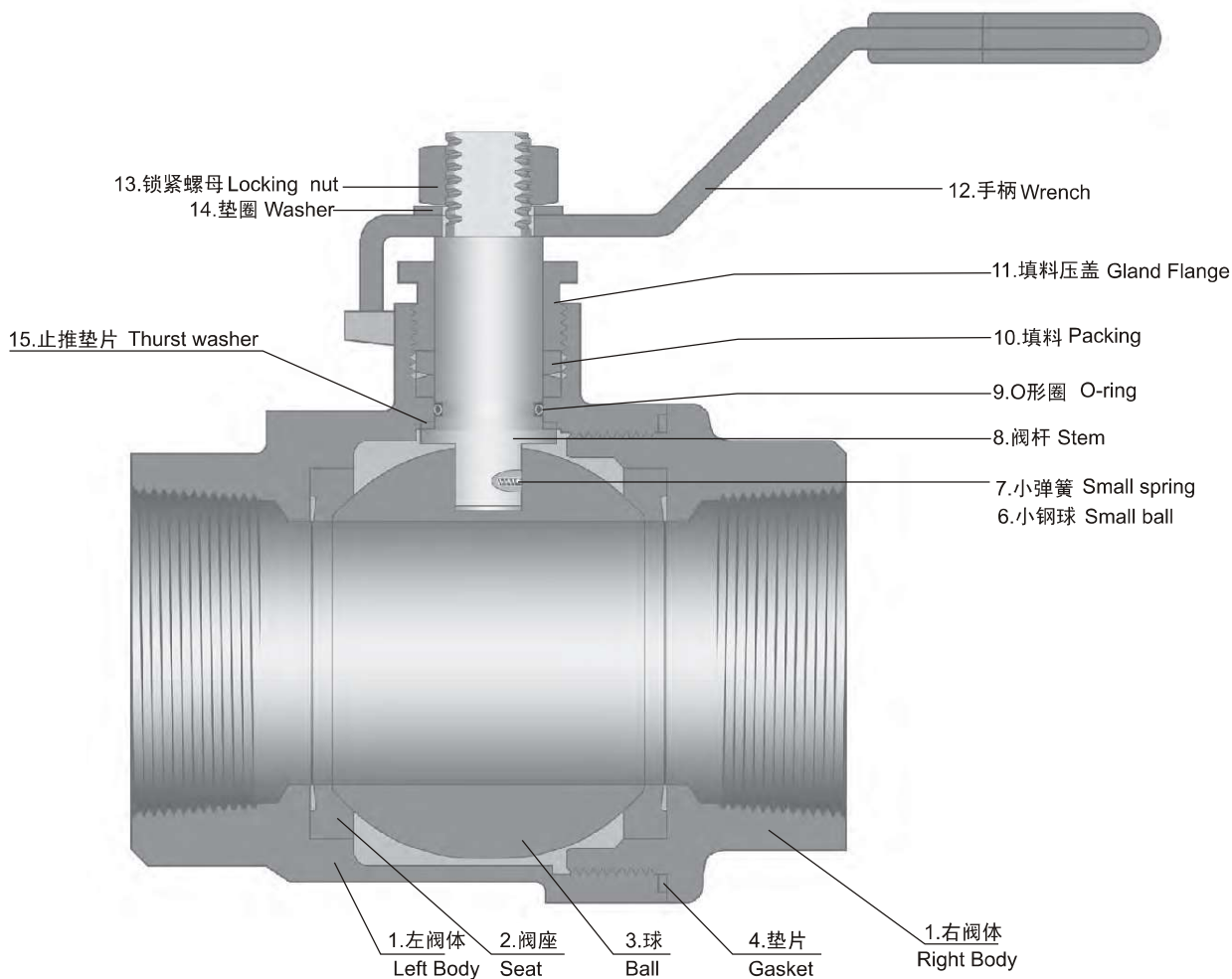
CAST STEEL BALL VALVE 铸钢球阀

主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	阀体 Body	A216-WCB, A351-CF8、CF8M、CF3, CF3M、CN7M, CF8C、CD4MCu、CN-3MN
2	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
3	球 Ball	A105+ENP, A182-F6、F304、F316、F304L、F316L、F321、F51、F53,ALLOY-20
4	垫片 Gasket	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND,PTFE
5	连接体 Adapter	A216-WCB, A351-CF8、CF8M、CF3, CF3M、CN7M, CF8C、CD4MCu、CN-3MN
6	螺栓 Bolt	A193 B7、B8、B8M
7	螺母 Nut	A194- 2H、8、8M
8	垫片 Washer	AISI 1566,STAINLESS STEEL
9	小钢球 Small ball	SS304,SS316
10	小弹簧 Small spring	SS304,SS316
11	阀杆 Stem	1045+ENP, A182-F6、F304、F316、F304L、F316L、F321、F51、F53,ALLOY-20, 4140+ENP、17-4PH
12	O形圈 O-ring	VITON
13	填料 Packing	PTFE,GRAPHITE
14	填料压盖 Gland flange	A351-CF8
15	手柄 Wrench	STAINLESS STEEL
16	锁紧螺母 Locking nut	1045、STAINLESS STEEL
17	垫圈 Washer	AISI 1566, STAINLESS STEEL
18	止推垫片 Thrust washer	PTFE、RPTFE、STAINLESS STEEL+N

二片式螺纹连接丝口球阀主要结构图形

2PC Threaded Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

ASME B16.34(BS5351),API 608,MSS-SP-72

结构长度尺寸 (End to End Dimension):

按厂标(Manufacturer's specification)

螺纹端连接尺寸 (Threaded ends Dimension):

ASME B1.20.1

检查和试验 (Test and Inspection):

API 598,API 6A

防火设计(Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆(Anti-Static Design&Anti Blow-Out Stem)

CAST STEEL BALL VALVE 铸钢球阀

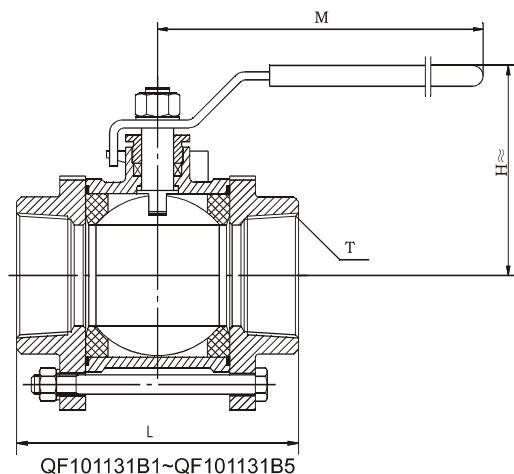
主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	左阀体 Left Body	A216-WCB, A351-CF8、CF8M、CF3, CF3M、CN7M, CF8C、CD4MCu、CN-3MN
2	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
3	球 Ball	A105+ENP, A182-F6、F304、F316、F304L、F316L、F321、F51、F53,ALLOY-20
4	垫片 Gasket	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND,PTFE
5	右阀体 Left Body	A216-WCB, A351-CF8、CF8M、CF3, CF3M、CN7M, CF8C,CD4MCu,CN-3MN
6	小钢球 Small ball	SS304,SS316
7	小弹簧 Small spring	SS304,SS316
8	阀杆 Stem	1045+ENP, A182-F6、F304、F316、F304L、F316L、F321、F51、F53,ALLOY-20, 4140+ENP、17-4PH
9	O形圈 O-ring	VITON
10	填料 Packing	PTFE,GRAPHITE
11	填料压盖 Gland flange	A351-CF8
12	手柄 Wrench	STAINLESS STEEL
13	锁紧螺母 Locking nut	1045、STAINLESS STEEL
14	垫圈 Washer	AISI 1566, STAINLESS STEEL
15	止推垫片 Thrust washer	PTFE、RPTFE、STAINLESS STEEL+N

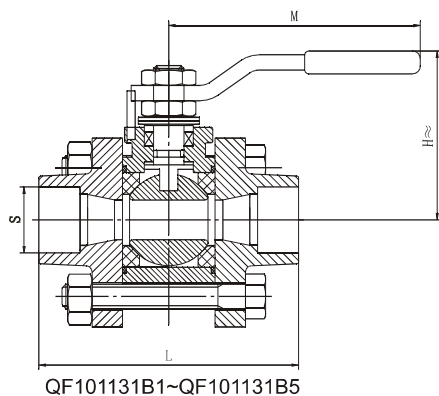
三片式螺栓连接丝口球阀结构形式及尺寸表

3PC Threaded Ball Valve Construction and Dimension

CLASS 150Lb~1500Lb



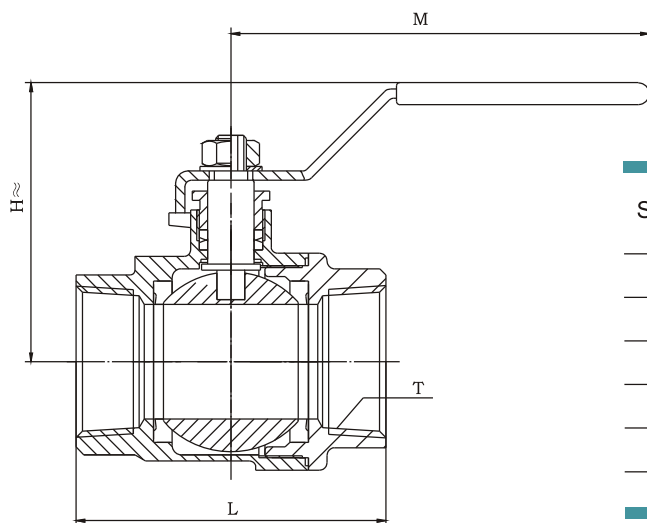
SIZE(in)	L (mm)		H≈ (mm)	T (in)	M≈ (mm)	W≈ (kg)
	NPT	SW				
3/8	65	65	48	3/8	120	0.42
1/2	85	85	54	1/2	120	0.56
3/4	82	82	57	3/4	130	0.85
1	91	91	72	1	154	1.22
1 1/2	129	129	81	1 1/2	185	2.84
2	148	148	97	2	185	4.45
2 1/2	174	174	137	2 1/2	250	8.1
3	193	193	150	3	250	13.1
4	216	216	168	4	280	23



二片式螺纹连接丝口球阀结构形式及尺寸表

2PC Threaded Ball Valve Construction and Dimension

800PSI-1000PSI

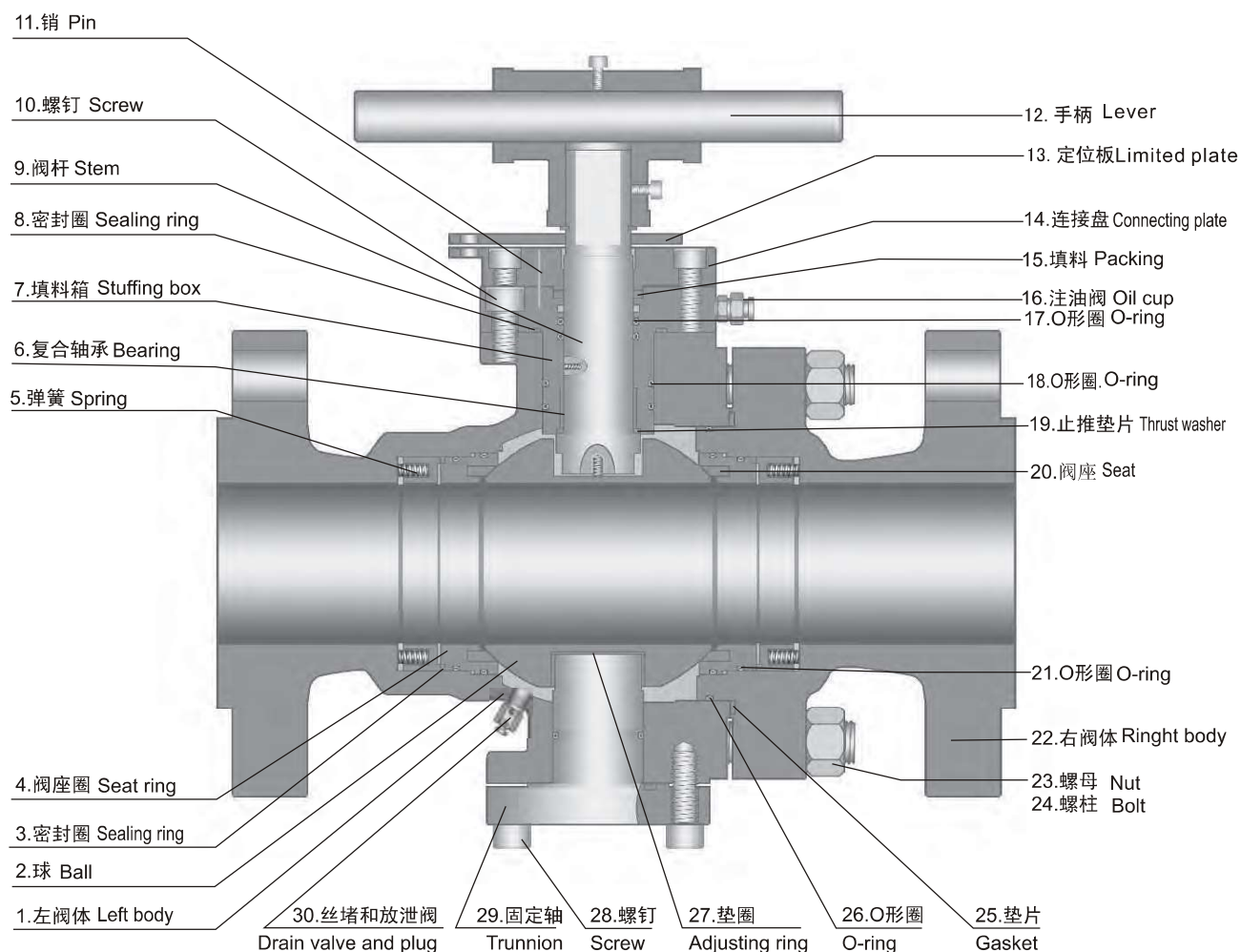


SIZE (in)	L (mm)	H≈ (mm)	T (in)	M≈ (mm)	W≈ (kg)
3/8	60	48	3/8	100	0.3
1/2	65	51	1/2	100	0.355
3/4	75	58	3/4	125	0.64
1	90	62	1	130	1.011
1 1/2	100	90	1 1/2	155	2.26
2	116	100	2	195	3.8

CAST STEEL BALL VALVE 铸钢球阀

二片式固定球阀主要结构图形

2PC Trunnion Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34 (BS5351), API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

API 6D, ASME B16.10

螺纹端连接尺寸 (Threaded ends Dimension):

ASME B16.5

承插焊端连接尺寸 (socket welded ends Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598

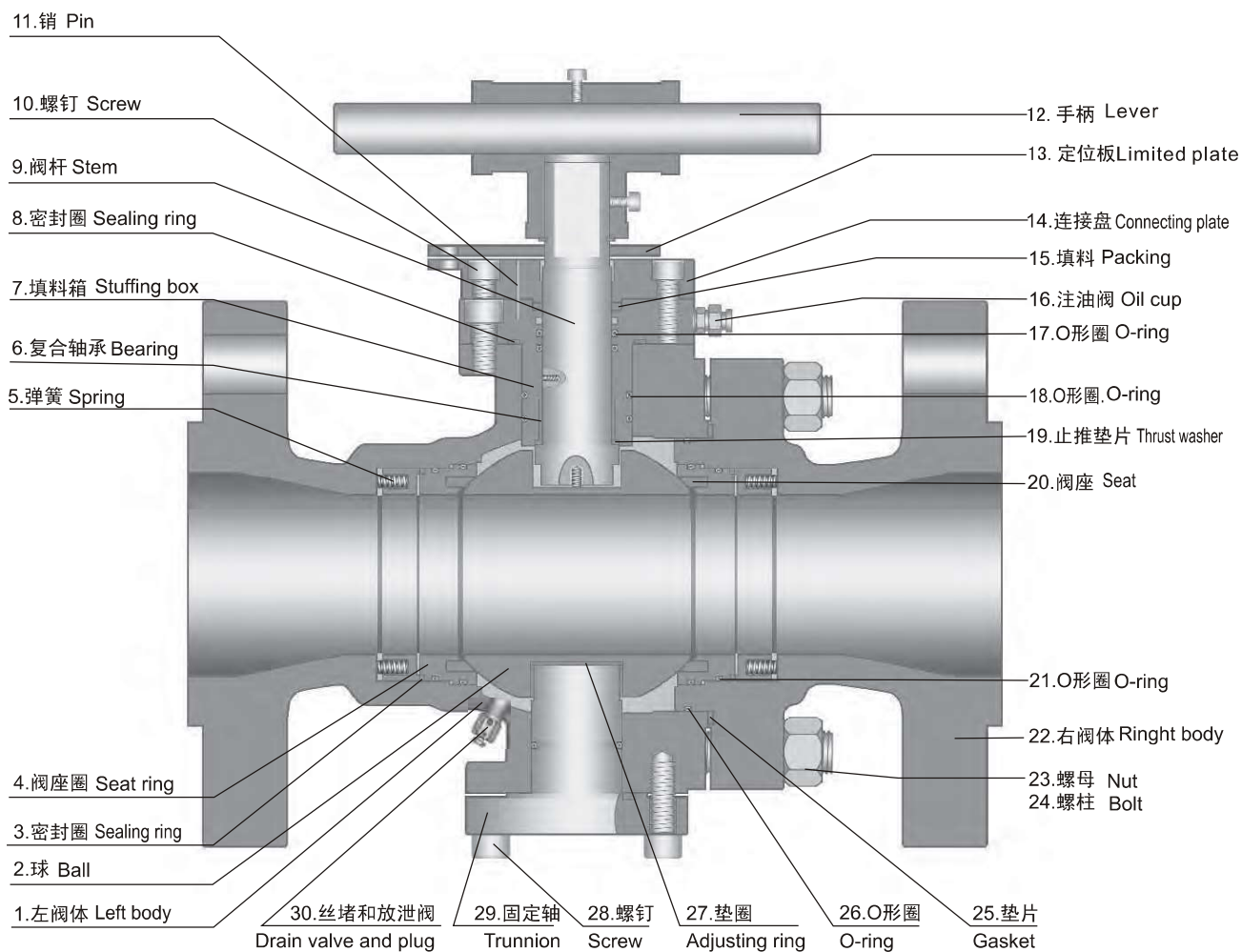
防火设计 (Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

二片式缩口固定球阀主要结构图形

2PC Reduced Port Trunnion Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

API 6D, ASME B16.10

螺纹端连接尺寸 (Threaded ends Dimension):

ASME B16.5

承插焊端连接尺寸 (socket welded ends Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598

防火设计 (Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

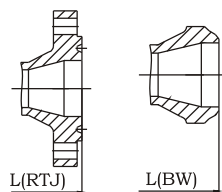
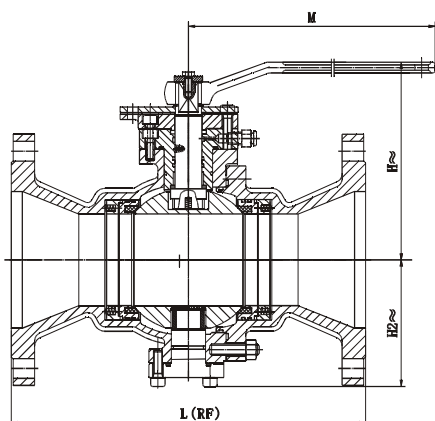
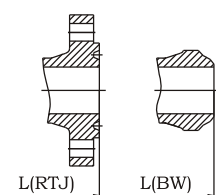
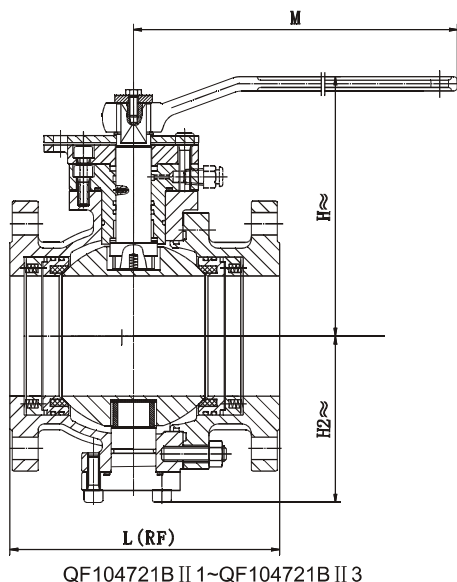
CAST STEEL BALL VALVE 铸钢球阀

主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	左阀体 Left body	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
2	球 Ball	A105+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20
3	密封圈 Sealing ring	FLEXIBLE GRAPHITE
4	阀座圈 Seat ring	A105+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20
5	弹簧 Spring	SS304、INCONEL、1566+Enp
6	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
7	填料箱 Stuffing box	A105+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20
8	密封圈 Sealing ring	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
9	阀杆 Stem	1045+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20、4140+ENP、17-4PH
10	螺钉 Screw	1035、STAINLESS STEEL
11	销 Pin	AISI 1566
12	手柄 Lever	A216-WCB+1020
13	定位板 Limited plated	1035,Stainless Steel
14	连接盘 Connecting plate	1025、A216 WCB、A351 CF8
15	填料 Packing	FLEXIBLE GRAPHITE
16	注油阀 Oil cup	1025、SS304
17	O形圈 O-ring	VITON
18	O形圈 O-ring	NBR、VITON
19	止推垫片 Thrust washer	PTFE、RPTFE、STAINLESS STEEL+N
20	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
21	O形圈 O-ring	VITON
22	右阀体 Right body	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
23	螺母 Nut	A194-2H、2HM、8、8M
24	螺栓 Bolt	A193-B7、B7M、B8、B8M
25	垫片 Gasket	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
26	O形圈 O-ring	NBR、VITON
27	垫圈 Adjusting ring	PTFE、1045+RTPFE、STAINLESS STEEL+RTPFE
28	螺钉 Screw	1035、STAINLESS STEEL
29	固定轴 Trunnion	1045+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20、4140+ENP、17-4PH
30	丝堵和放泄阀 Drain valve and plug	1025、SS304、SS316、SS304L、SS316L、SS321、ALLOY-20、F51、F53

二片式固定球阀结构形式及尺寸表

2 PC Trunnion Ball Valve Construction and Dimension CLASS 150Lb~2500Lb



CLASS 150Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	178	191	216	168	83	250	10
3×2 [Ⓡ]	203	216	283	168	83	250	11.7
2½	191	203	241	175	102	300	14
3×2½ [ⓐ]	203	216	283	175	102	300	15
4×2½ [Ⓡ]	229	241	305	175	102	300	16.7
3	203	216	283	186	117	350	22
4×3 [ⓐ]	229	241	305	186	117	350	25
6×3 [Ⓡ]	394	406	457	186	117	350	31.3
4	229	241	305	225	141	450	35
6×4 [ⓐ]	394	406	457	225	141	450	42.5
8×4 [Ⓡ]	457	470	521	225	141	450	51.5

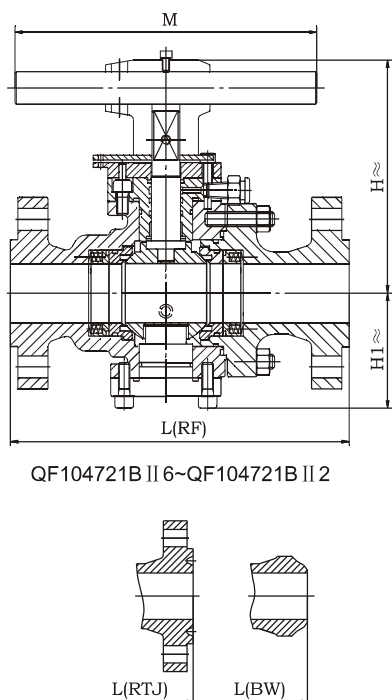
CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	216	232	216	168	95	250	15
3×2 [Ⓡ]	283	298	283	168	95	250	20
2½	241	257	241	175	107	300	24
3×2½ [ⓐ]	283	298	283	175	107	300	28
4×2½ [Ⓡ]	305	321	305	175	107	300	34
3	283	298	283	186	122	350	30
4×3 [ⓐ]	305	321	305	186	122	350	44
6×3 [Ⓡ]	403	419	403	186	122	350	52
4	305	321	305	225	148	450	55
6×4 [ⓐ]	403	419	403	225	148	450	65
8×4 [Ⓡ]	502	518	521	225	148	450	82

ⓐ 规则孔(Regular bore); Ⓡ 缩孔Reduce bore.

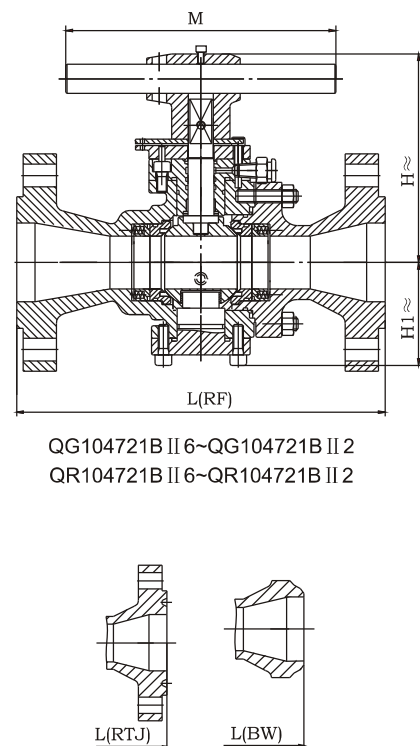
■W 指RF法兰面球阀重量(The W in the table means weight of Therefore End Ball Valve)

CAST STEEL BALL VALVE 铸钢球阀



CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	292	295	292	195	100	500	33
3×2 [Ⓔ]	356	359	356	195	100	500	37
2½	330	333	330	220	115	600	47
3×2½ [Ⓔ]	356	359	356	220	115	600	48.8
4×2½ [Ⓔ]	432	435	432	220	115	600	57.5
3	356	359	356	247	126	700	58
4×3 [Ⓔ]	432	435	432	247	126	700	72
6×3 [Ⓔ]	559	562	559	247	126	700	97.8
4	432	435	432	275	154	900	83
6×4 [Ⓔ]	559	562	559	275	154	900	102.8
8×4 [Ⓔ]	660	664	660	275	154	900	109.6



CLASS 900Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	368	371	368	217	118.5	500	39
3×2 [Ⓔ]	381	384	381	217	118.5	500	44
2½	419	422	419	241	133	600	55
3×2½ [Ⓔ]	381	384	381	241	133	600	58
4×2½ [Ⓔ]	457	460	457	241	133	600	62.1
3	381	384	381	259	141	900	68
4×3 [Ⓔ]	457	460	457	259	141	900	82
6×3 [Ⓔ]	610	613	610	259	141	900	106.1
4	457	460	457	297	167	1000	98
6×4 [Ⓔ]	610	613	610	297	167	1000	127
8×4 [Ⓔ]	737	740	737	297	167	1000	171.1

Ⓔ 规则孔(Regular bore); Ⓕ 缩孔Reduce bore.

■ W 指RF法兰面球阀重量(The W in the table means weight of Therefore End Ball Valve)

CLASS 1500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H $\approx$ (mm)	H1 $\approx$ (mm)	M $\approx$ (mm)	W $\approx$ (kg)
2	368	371	368	237	122	800	40
3 $\times$ 2 	470	473	470	237	122	800	50
2½	419	422	419	261	148	900	64
3 $\times$ 2½ 	470	473	470	261	148	900	70
4 $\times$ 2½ 	546	549	546	261	148	900	86
3	470	473	470	269	163	1000	95
4 $\times$ 3 	546	549	546	269	163	1000	108
6 $\times$ 3 	705	711	705	269	163	1000	160
4	546	549	546	297	173	-	180
6 $\times$ 4 	705	711	705	297	173	-	225
8 $\times$ 4 	832	841	832	297	173	-	297

CLASS 2500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H $\approx$ (mm)	H1 $\approx$ (mm)	M $\approx$ (mm)	W $\approx$ (kg)
2	451	454	451	240	129	1000	75
3 $\times$ 2 	578	584	578	240	129	1000	102
2½	508	514	508	270	135	1000	110
3 $\times$ 2½ 	578	584	578	270	135	1000	173
4 $\times$ 2½ 	673	683	673	270	135	1000	180
3	578	584	578	300	159	1000	201
4 $\times$ 3 	673	683	673	300	159	1000	230
6 $\times$ 3 	914	927	914	300	159	1000	340
4	673	683	673	350	204	-	303
6 $\times$ 4 	914	927	914	350	204	-	413
8 $\times$ 4 	1022	1038	1022	350	204	-	524

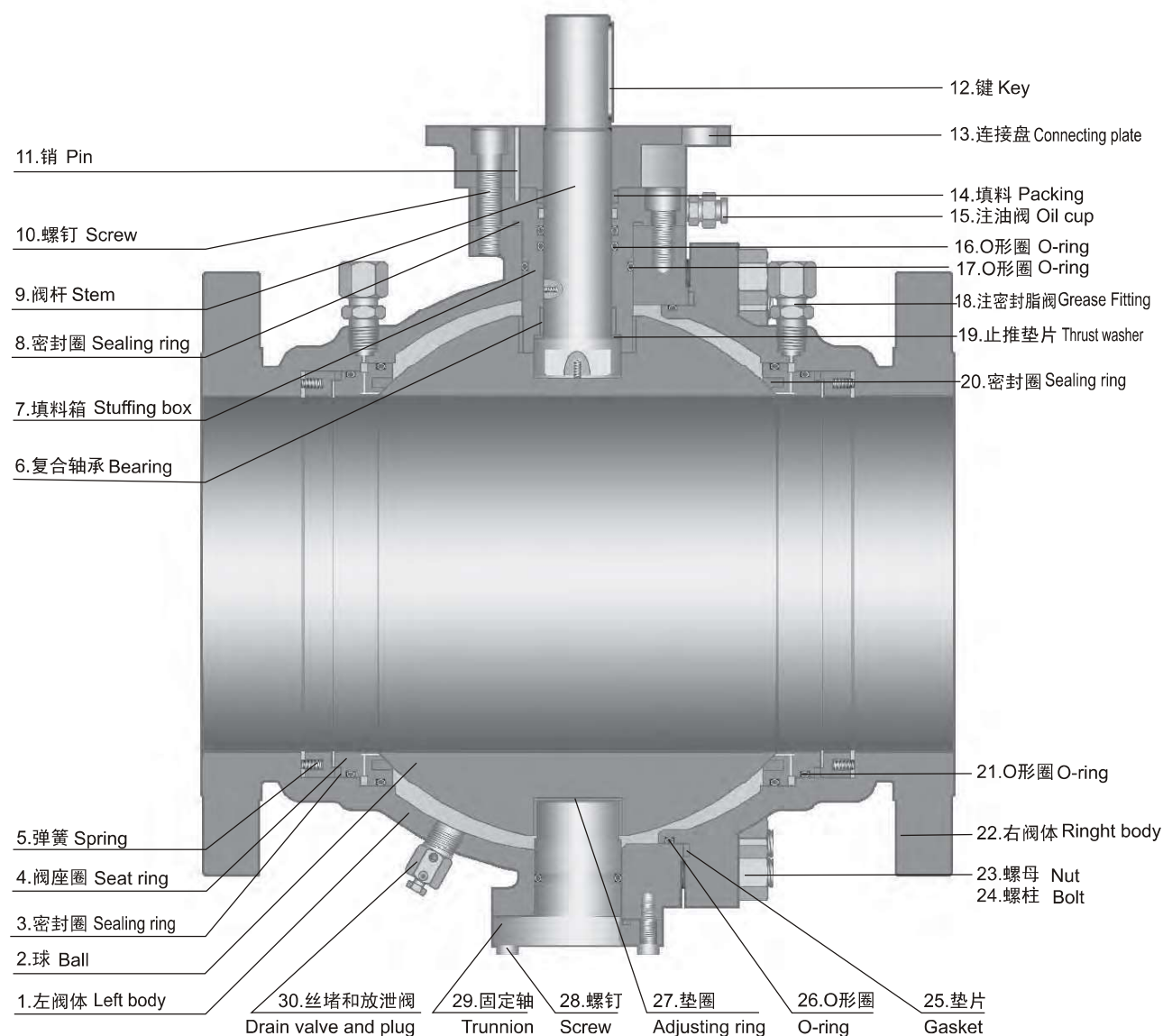
 规则孔(Regular bore);  缩孔Reduce bore.

■W 指RF法兰面球阀重量(The W in the table means weight of Therefore End Ball Valve)

CAST STEEL BALL VALVE 铸钢球阀

二片式固定球阀主要结构图形

2PC Trunnion Ball Valve Major Features

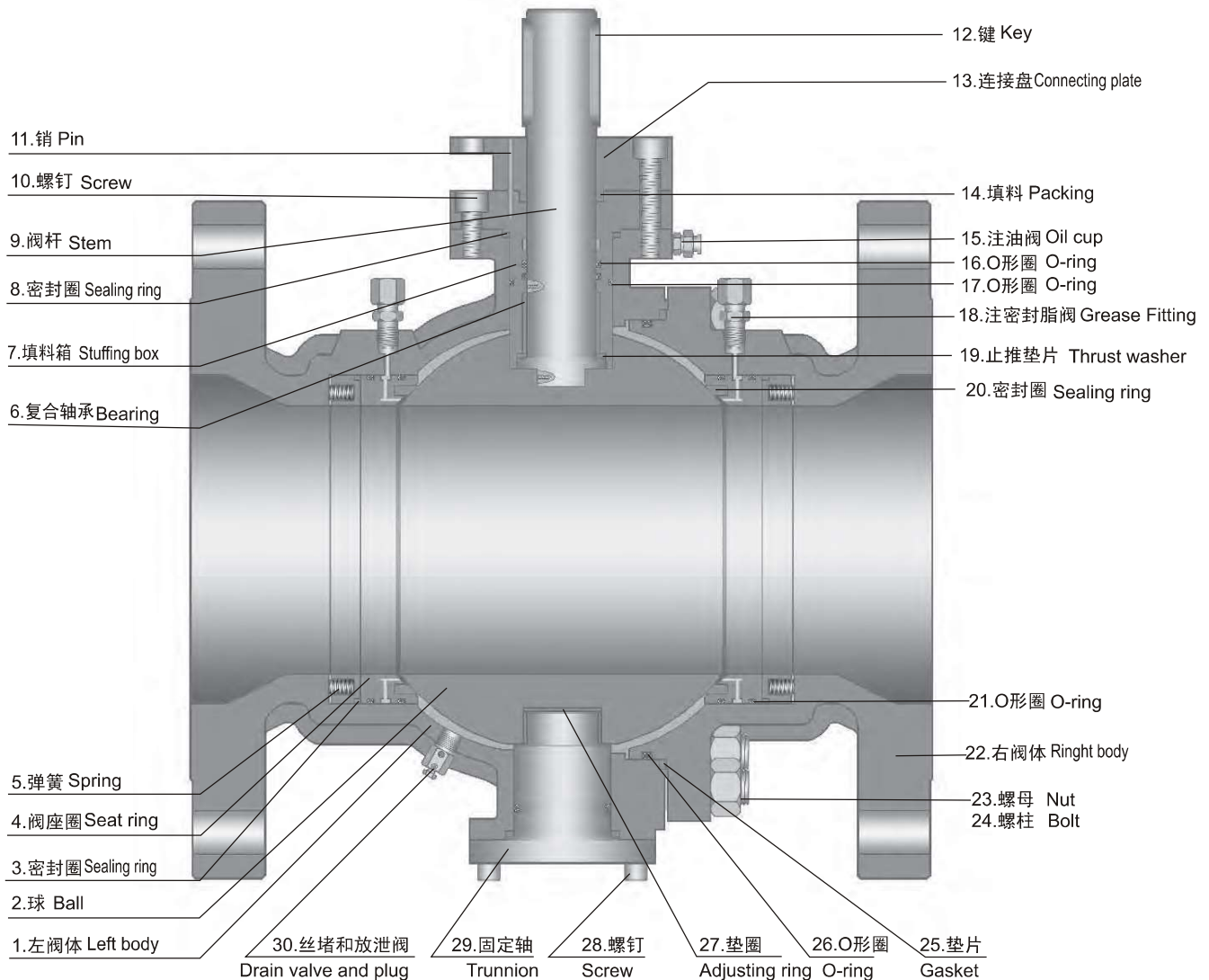


主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D,ASME B16.34(BS5351),API 608,MSS-SP-72
结构长度尺寸 (End to End Dimension):	API 6D,ASME B16.10
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5,NPS $\geq$ 26" PER as ASME B16.47
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D,API 598
防火设计(Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆(Anti-Static Design&Anti Blow-Out Stem)	

二片式缩口固定球阀主要结构图形

2PC Reduced Trunnion Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

API 6D, ASME B16.10

法兰连接尺寸 (Flange Connection Dimension):

ASME B16.5, NPS ≥ 26" PER as ASME B16.47

对焊端尺寸 (BW Connection Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598

防火设计 (Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

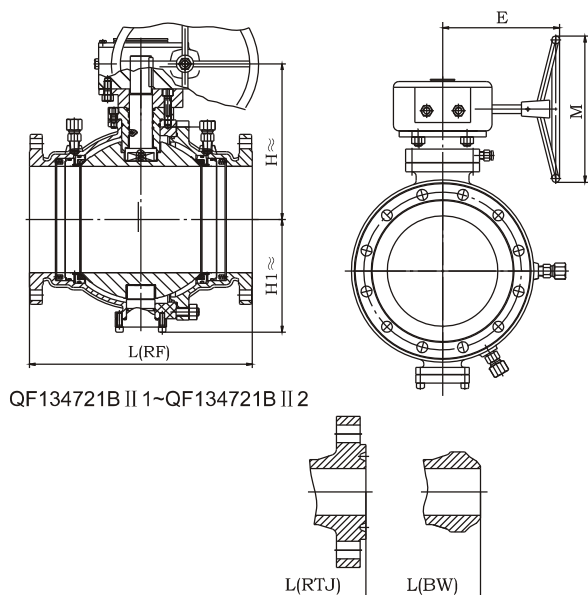
CAST STEEL BALL VALVE 铸钢球阀

主要材料 Main Material

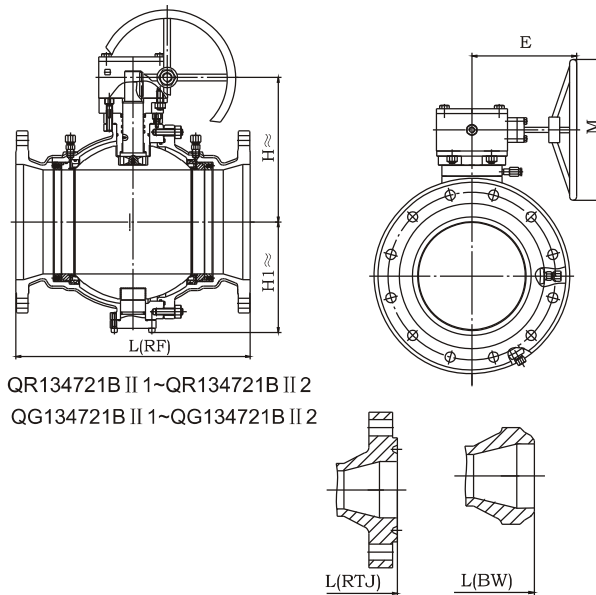
序号 No.	名称 PART NAME	材料 MATERIAL
1	左阀体 Left body	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
2	球 Ball	A105+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20
3	密封圈 Sealing ring	FLEXIBLE GRAPHITE
4	阀座圈 Seat ring	A105+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20
5	弹簧 Spring	SS304、INCONEL、1566+Enp
6	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
7	填料箱 Stuffing box	A105+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20
8	密封圈 Sealing ring	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
9	阀杆 Stem	1045+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20、4140+EMP、17-4PH
10	螺钉 Screw	1035、STAINLESS STEEL
11	销 Pin	AISI 1566
12	键 Key	1045
13	连接盘 Connecting plate	1025、A216 WCB、A351 CF8
14	填料 Packing	FLEXIBLE GRAPHITE
15	注油阀 Oil cup	1025、SS304
16	O形圈 O-ring	VITON
17	O形圈 O-ring	NBR、VITON
18	注密封脂阀 Grease fitting	1025、SS304、SS316、SS304L、SS316L、SS321、ALLOY-20、F51、F53
19	止推垫片 Thrust washer	PTFE、RPTFE、STAINLESS STEEL+N
20	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
21	O形圈 O-ring	VITON
22	右阀体 Right body	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
23	螺母 Nut	A194-2H、2HM、8、8M
24	螺栓 Bolt	A193-B7、B7M、B8、B8M
25	垫片 Gasket	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
26	O形圈 O-ring	NBR、VITON
27	垫圈 Adjusting ring	PTFE、1045+RTPFE、STAINLESS STEEL+RTPFE
28	螺钉 Screw	1035、STAINLESS STEEL
29	固定轴 Trunnion	1045+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20、4140+ENP、17-4PH
30	丝堵和放泄阀 Drain valve and plug	1025、SS304、SS316、SS304L、SS316L、SS321、ALLOY-20、F51、F53

二片式固定球阀结构形式及尺寸表

2 PC Trunnion Ball Valve Construction and Dimension CLASS 150Lb~2500Lb



QF134721B II 1~QF134721B II 2



QR134721B II 1~QR134721B II 2
QG134721B II 1~QG134721B II 2

CLASS 150Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (kg)
6	394	406	457	280	193	300	254	74
8×6 	457	470	521	280	193	300	254	83
10×6 	533	546	559	280	193	300	254	95.2
8	457	470	521	345	217	300	254	111
10×8 	533	546	559	345	217	300	254	123.4
12×8 	610	622	635	345	217	300	254	142
10	533	546	559	395	270	300	270	217
12×10 	610	622	635	395	270	300	270	235
14×10 	686	699	762	395	270	300	270	253
16×10 	762	775	838	395	270	300	270	277
12	610	622	635	527	323	300	320	385
14×12 	686	699	762	527	323	300	320	402
16×12 	762	775	838	527	323	300	320	426
18×12 	864	876	914	527	323	300	320	450
14	686	699	762	570	355	400	320	457
16×14 	762	775	838	570	355	400	380	481
18×14 	864	876	914	570	355	400	380	505
20×14 	914	927	991	570	355	400	380	536
16	762	775	838	498	398	450	430	723
18×16	864	876	914	498	398	450	430	765
20×16	914	927	991	498	398	450	430	832

CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (kg)
6	403	419	403	285	201	300	254	90
8×6 	502	518	521	285	201	300	254	107
10×6 	568	584	559	285	201	300	254	127
8	502	518	521	345	232	400	270	201
10×8 	568	584	559	345	232	400	270	222
12×8 	648	664	635	345	232	400	270	252
10	568	584	559	451	283	400	342	350
12×10 	648	664	635	451	283	400	342	381
14×10 	762	778	762	451	283	400	342	420
16×10 	838	854	838	451	283	400	342	461
12	648	664	635	570	335	400	342	510
14×12 	762	778	762	570	335	400	380	547
16×12 	838	854	838	570	335	400	380	592
18×12 	914	930	914	570	335	400	380	638
14	762	778	762	600	360	450	430	720
16×14 	838	854	838	600	360	450	430	760
18×14 	914	930	914	600	360	450	430	808
20×14 	991	1010	991	600	360	450	430	884
16	838	854	838	638	398	500	510	1167
18×16	914	930	914	638	398	500	510	1257
20×16	991	1010	991	638	398	500	510	1365

 规则孔(Regular bore);  缩孔(Reduce bore).

■ W 指 RF 法兰面球阀重量 (The W in the table means weight of R F End Ball Valve)

CAST STEEL BALL VALVE 铸钢球阀

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (kg)
6	559	562	559	305	198	300	270	174
8×6 	660	664	660	305	198	300	270	198
10×6 	787	791	787	305	198	300	270	244
8	660	664	660	365	252	400	380	339
10×8 	787	791	787	365	252	400	380	386
12×8 	838	841	838	365	252	400	380	420
10	787	791	787	484	299	450	430	515
12×10 	838	841	838	484	299	450	430	545
14×10 	889	892	889	484	299	450	430	576
16×10 	991	994	991	484	299	450	430	648
12	838	841	838	580	343	500	430	960
14×12 	889	892	889	580	343	500	430	992
16×12 	991	994	991	580	343	500	430	1072
18×12 	1092	1095	1092	580	343	500	430	1142
14	889	892	889	608	377	500	510	1250
16×14 	991	994	991	608	377	500	510	1328
18×14 	1092	1095	1092	608	377	500	510	1405
20×14 	1194	1200	1194	608	377	500	510	1513
16	991	994	991	663	416	500	510	1415
18×16	1092	1095	1092	663	416	500	510	1615
20×16	1194	1200	1194	663	416	500	510	1692

CLASS 1500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (kg)
6	705	711	705	365	211	400	380	380
8×6 	832	841	832	365	211	400	380	485
10×6 	991	1000	991	365	211	400	380	635
8	832	841	832	475	274	450	430	750
10×8 	991	1000	991	475	274	450	430	956
12×8 	1130	1146	1130	475	274	450	430	1056
10	991	1000	991	578	310	500	510	1165
12×10 	1130	1146	1130	578	310	500	510	1267
14×10 	1257	1276	1257	578	310	500	510	1465
16×10 	1384	1407	1384	578	310	500	510	1592
12	1130	1146	1130	696	485	500	510	1625
14×12 	1257	1276	1257	696	485	500	510	1825
16×12 	1384	1407	1384	696	485	500	510	1900
14 	1257	1276	1257	761	510	550	530	1980
16×14	1384	1407	1384	761	510	550	530	2280

CLASS 900Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (kg)
6	610	613	610	360	250	400	380	220
8×6 	737	740	737	360	250	400	380	263
10×6 	838	841	838	360	250	400	380	316
8	737	740	737	394	280	450	430	500
10×8 	838	841	838	394	280	450	430	551
12×8 	965	968	965	394	280	450	430	620
10	838	841	838	502	325	500	510	942
12×10 	965	968	965	502	325	500	510	1010
14×10 	1029	1038	1029	502	325	500	510	1054
16×10 	1130	1140	1130	502	325	500	510	1143
12	965	968	965	592	380	500	510	1200
14×12 	1029	1038	1029	592	380	500	510	1310
16×12 	1130	1140	1130	592	380	500	510	1420
18×12 	1219	1232	1219	592	380	500	510	1550
14	1029	1038	1029	675	395	550	530	1655
16×14 	1130	1140	1130	675	395	550	530	1855
18×14 	1219	1232	1219	675	395	550	530	-
20×14 	1321	1334	1321	675	395	550	530	-
16	1130	1140	1130	762	426	550	530	1903
18×16	1219	1232	1219	762	426	550	530	2030
20×16	1321	1334	1321	762	426	550	530	2374

CLASS 2500Lb

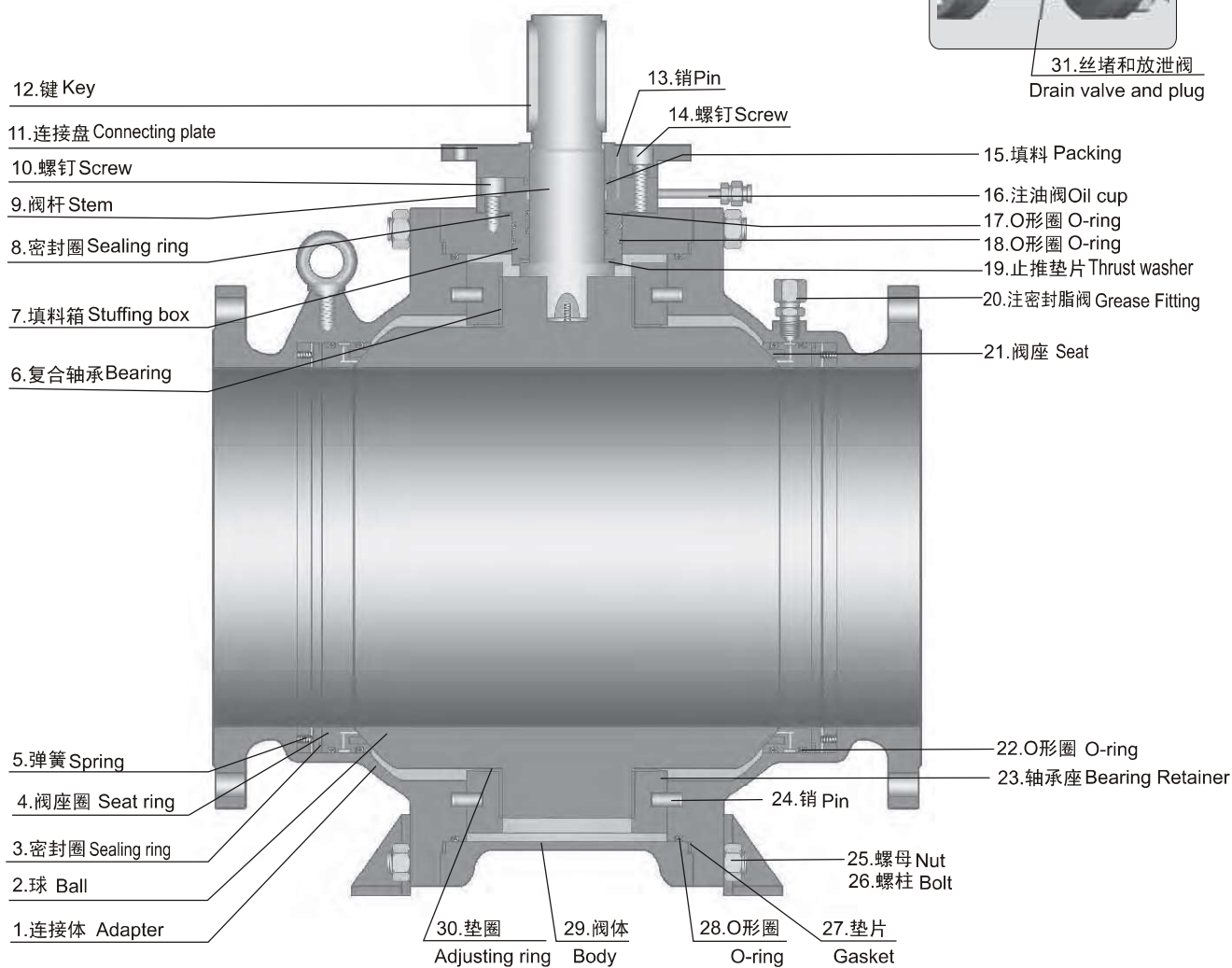
SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (kg)
6	914	927	914	385	250	450	430	745
8×6 	1022	1038	1022	385	250	450	430	935
10×6 	1270	1292	1270	385	250	450	430	1080
8	1022	1038	1022	502	340	500	510	1202
10×8 	1270	1292	1270	502	340	500	510	1450
12×8 	1422	1445	1422	502	340	500	510	1869
10	1270	1292	1270	600	411	500	510	2080
12×10 	1422	1445	1422	600	411	500	510	2287
12	1422	1445	1422	715	498	550	510	3080

 规则孔(Regular bore);  缩孔Reduce bore.

■W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

三片式固定球阀主要结构图形

3PC Trunnion Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34 (BS5351), API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

API 6D, ASME B16.10

法兰连接尺寸 (Flange Connection Dimension):

ASME B16.5, NPS $\geq 26"$ PER as ASME B16.47

对焊端尺寸 (BW Connection Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598

防火设计 (Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

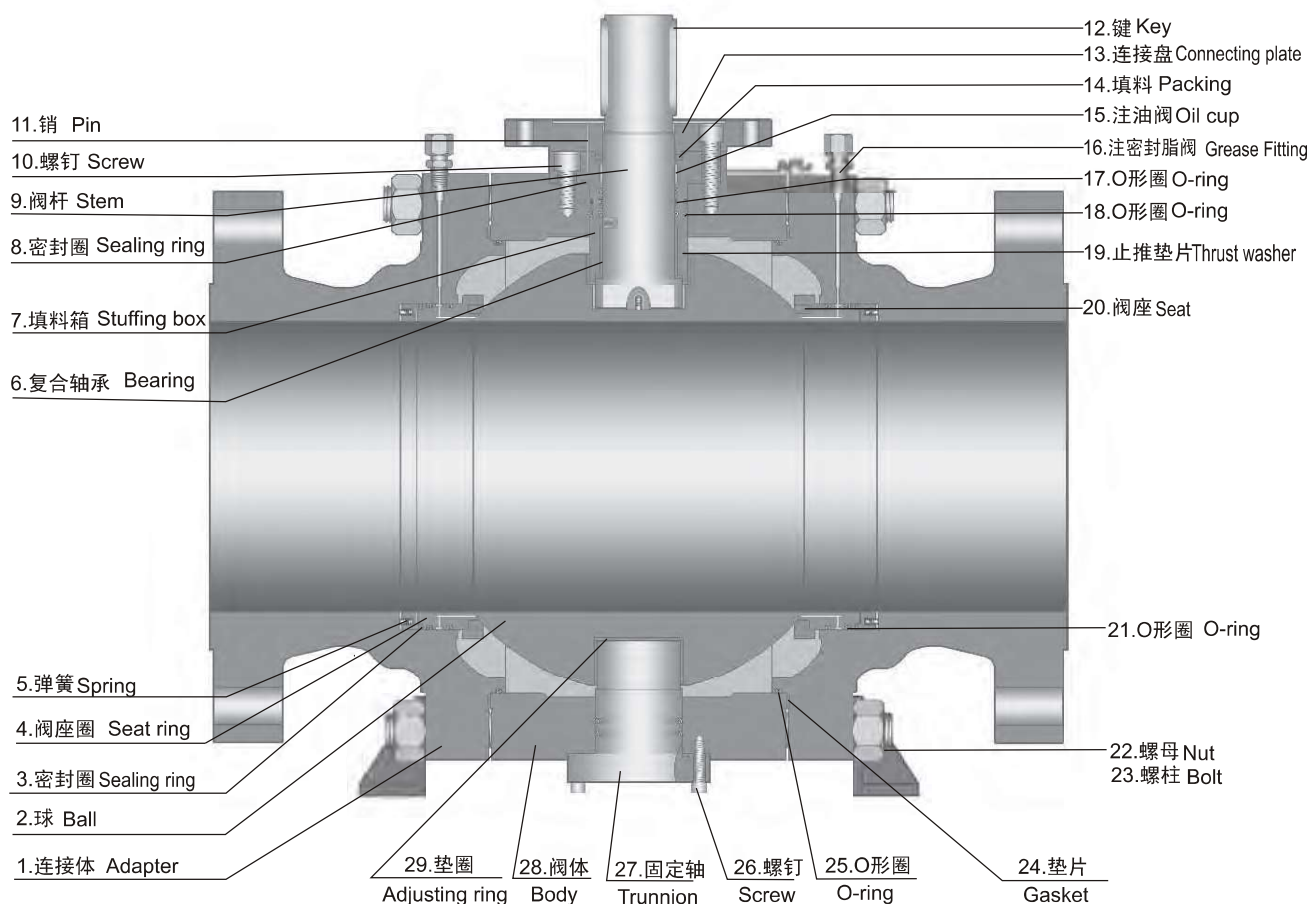
CAST STEEL BALL VALVE 铸钢球阀

主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	连接体 Adapter	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
2	球 Ball	A105+ENP、A182-F6、F304、F316、F304L、F316L、F51、F53、F321,ALLOY-20
3	密封圈 Sealing ring	FLEXIBLE GRAPHITE
4	阀座圈 Seat ring	A105+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53,ALLOY-20
5	弹簧 Spring	SS304、INCONEL、1566+Enp
6	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
7	填料箱 Stuffing box	A105+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53,ALLOY-20
8	密封圈 Sealing ring	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
9	阀杆 Stem	1045+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20、4140+ENP,17-4PH
10	螺钉 Screw	1035、STAINLESS STEEL
11	连接盘 Connecting Plate	1025、A216 WCB、A351 CF8
12	键 Key	1045
13	销 pin	AISI 1566
14	螺钉 Screw	1025、SS304
15	填料 Packing	FLEXIBLE GRAPHITE
16	注油阀 Oil cup	1025、SS304、SS316、SS304L、SS316L、SS321、F51、F53、ALLOY-20、
17	O形圈 O-ring	VITON
18	O形圈 O-ring	NBR、VITON
19	止推垫片 Thrust washer	PTFE、RPTFE、STAINLESS STEEL+N
20	注密封脂阀 Grease fitting	1025、SS304、SS316、SS304L、SS316L、SS321、ALLOY-20、F51、F53
21	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
22	O形圈 O-ring	VITON
23	轴承座 Bearing Retainer	1025、A216 WCB、A351 C F8
24	销 Pin	1045、STAINLESS STEEL
25	螺母 Nut	A194-2H、2HM、8、8M
26	螺栓 Bolt	A193-B7、B7M、B8、B8M
27	垫片 Gasket	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
28	O形圈 O-ring	NBR、VITON
29	阀体 Body	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
30	垫圈 Adujsting ring	PTFE、1045+RTPFE、STAINLESS STEEL+RTPFE
31	丝堵和放泄阀 Plug and drain valve	1025、SS304、SS316、SS304L、SS316L、SS321、ALLOY-20、F51、F53

三片式固定球阀主要结构图形

3PC Trunnion Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

API 6D, ASME B16.10

法兰连接尺寸 (Flange Connection Dimension):

ASME B16.5, NPS ≥ 26" PER as ASME B16.47

对焊端尺寸 (BW Connection Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598

防火设计 (Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

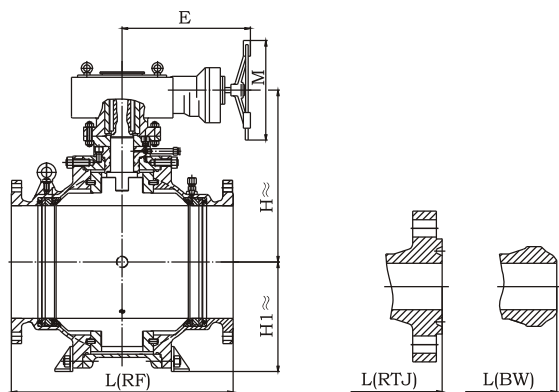
CAST STEEL BALL VALVE 铸钢球阀

主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	连接体 Adapter	A216-WCB, WCC, A352-LCB, A351-CF8, CF8M, CF3, CF3M, CN7M, CF8C, CD4MCu, CN-3MN
2	球 Ball	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, ALLOY-20
3	密封圈 Sealing ring	FLEXIBLE GRAPHITE
4	阀座圈 Seat ring	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, ALLOY-20
5	弹簧 Spring	SS304, INCONEL, 1566+Enp
6	复合轴承 Bearing	1045+RPTFE, SS304+RPTFE, SS316+RPTFE
7	填料箱 Stuffing box	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, ALLOY-20
8	密封圈 Sealing ring	SS304, SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
9	阀杆 Stem	1045+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, ALLOY-20, 4140+EMP, 17-4PH
10	螺钉 Screw	1035, STAINLESS STEEL
11	销 Pin	AISI 1566
12	键 Key	1045
13	连接盘 Connecting plate	1025, A216 WCB, A351 CF8
14	填料 Packing	FLEXIBLE GRAPHITE
15	注油阀 Oil cup	1025, SS304
16	注密封脂阀 Grease fitting	1025, SS304, SS316, SS304L, SS316L, SS321, ALLOY-20, F51, F53
17	O形圈 O-ring	VITON
18	O形圈 O-ring	NBR, VITON
19	止推垫片 Thrust washer	PTFE, RPTFE, STAINLESS STEEL+N
20	阀座 Seat	PTFE, RPTFE, NYLON, PEEK, PPL, POM, KARBATE, MOLON, DEVLON
21	O形圈 O-ring	VITON
22	螺母 Nut	A194-2H, 2HM, 8, 8M
23	螺栓 Bolt	A193-B7, B7M, B8, B8M
24	垫片 Gasket	SS304, SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
25	O形圈 O-ring	NBR, VITON
26	螺钉 Screw	1035, STAINLESS STEEL
27	固定轴 Trunnion	1045+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, ALLOY-20, 4140+ENP, 17-4PH
28	阀体 Body	A216-WCB, WCC, A352-LCB, A351-CF8, CF8M, CF3, CF3M, CN7M, CF8C, CD4MCu, CN-3MN
29	垫圈 Adujsting ring	PTFE, 1045+RTPFE, STAINLESS STEEL+RTPFE
30	丝堵和放泄阀 Drain valve and plug	1025, SS304, SS316, SS304L, SS316L, SS321, ALLOY-20, F51, F53

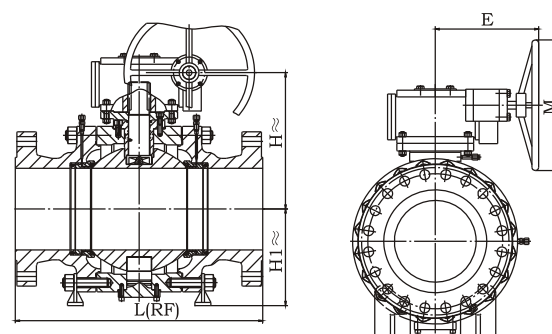
三片式固定球阀结构形式及尺寸表

3PC Trunnion Ball Valve Construction and Dimension CLASS 150Lb~1500Lb



QF134731B I 1~QF134731B I 2

CLASS 150Lb



QF134731B II 1~QF134731B II 2

CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
16	762	775	838	498	398	450	430	739	723
18×16 ^⑥	864	876	914	498	398	450	430	812	773
20×16 ^⑥	914	927	991	498	398	450	430	906	863
18	864	876	914	640	437	500	510	930	879
20×18 ^⑥	914	927	991	640	437	500	510	1029	980
20	914	927	991	700	467	550	530	1617	1540
24×20 ^⑥	1067	1080	1143	700	467	550	530	1900	1810
22	※991	-	※1092	735	499	550	530	2518	2398
24×22 ^⑥	1067	1080	1143	735	499	550	530	2591	2468
24	1067	1080	1143	820	551	550	530	2787	2654
30×24 ^⑥	1295	-	1397	820	551	550	530	3049	2904
26	1143	-	1245	892	624	550	530	3276	3120
28×26 ^⑥	1245	-	1346	892	624	550	530	3557	3388
28	1245	-	1346	901	632	550	530	3183	3032
30×28 ^⑥	1295	-	1397	901	632	550	530	3518	3350
30	1295	-	1397	962	715	762	-	3675	3350
32×30 ^⑥	1372	-	1524	962	715	762	-	-	-
36×30 ^⑥	1524	-	1727	962	715	762	-	3885	3700
32	1372	-	1524	1045	755	812	-	4725	4500
34	1473	-	1626	1095	785	812	-	6073	5784
36	1524	-	1727	1117	836	914	-	7237	6892
40	※1753	-	※1753	1285	900	914	-	9347	8902
42	※1855	-	※2015	1330	935	914	-	10355	9862
48	※2083	-	※2225	1434	1050	914	-	16210	15438
56	※2250	-	※2489	1476	1306	1016	-	25822	24592

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
16	838	854	838	538	398	500	510	1330	1267
18×16	914	930	914	538	398	500	510	1414	1347
20×16	991	1010	991	538	398	500	510	1538	1465
18	914	930	914	625	437	500	510	1602	1526
20×18	991	1010	991	625	437	500	510	1739	1656
20	991	1010	991	712	477	500	510	1966	1872
24×20	1143	1165	1143	712	477	500	510	2365	2252
22	1092	1114	1092	799	495	550	530	2517	2397
24×22	1143	1165	1143	799	495	550	530	3215	2507
24	1143	1165	1143	826	585	550	530	3158	3008
30×24	1397	1422	1397	826	585	550	530	3945	3758
26	1245	1270	1245	862	630	550	530	3620	3416
28×26	1346	1372	1346	862	630	550	530	3776	3596
28	1346	1372	1346	893	683	550	530	4061	3868
30×28	1397	1422	1397	893	683	550	-	4261	4058
30	1397	1422	1397	968	715	762	-	5223	4974
32×30	1524	1553	1524	968	715	762	-	-	-
36×30	1727	1756	1727	968	715	762	-	6281	5982
32	1524	1553	1524	1008	785	812	-	5958	5674
34	1626	1654	1626	1073	836	914	-	6913	6584
36	1727	1756	1727	1100	875	914	-	7944	7566
40	※1850	-	※1930	1245	923	914	-	10117	9635
42	※1900	-	※2015	1345	958	914	-	11425	10881
48	※2170	-	※2225	1490	1108	914	-	18467	17558
56	※2300	-	※2489				-		

※L由厂方与用户协商确定(※ L will be confirmed by ths consumer and factory); ⑥ 规则孔(Regular bore); ⑦ 缩孔Reduce bore.

■W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

CAST STEEL BALL VALVE 铸钢球阀

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
16	991	994	991	643	416	500	510	1549	1475
18×16	1092	1095	1092	643	416	500	510	1695	1615
20×16	1194	1200	1194	643	416	500	510	1778	1692
18	1092	1095	1092	723	455	500	510	1828	1741
20×18	1194	1200	1194	723	455	500	510	1935	1843
20	1194	1200	1194	823	522	550	530	2320	2210
24×20	1397	1407	1397	823	522	550	530	3235	3081
22	1295	1305	1295	845	592	812	-	3899	3714
24×22	1397	1407	1397	845	592	812	-	4057	3864
24	1397	1407	1397	866	615	812	-	3665	3490
30×24	1651	1664	1651	866	615	812	-	4270	4496
26	1448	1461	1448	924	630	812	-	4751	4525
28×26	1549	1562	1549	924	630	812	-	-	-
28	1549	1562	1549	956	700	812	-	5405	5148
30×28	1651	1664	1651	956	700	812	-	-	-
30	1651	1664	1651	1038	726	914	-	6056	5768
32×30	1778	1794	1778	1038	726	914	-	-	-
36×30	2083	2099	2083	1038	726	914	-	7415	7062
32	1778	1794	1778	1218	788	914	-	7253	6908
34	1930	1946	1930	1230	815	914	-	7778	7408
36	2083	2099	2083	1269	875	914	-	9182	8745
40	※2080	-	※2170	1342	945	914	-	12584	11985
42	※2175	-	-	1520	989	1016	-	14805	14100
48	※2435	-	-	1655	1120	1016	-	22699	21618
56	※2710	-	-				-		

CLASS 1500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
16	1384	1407	1384	650	500	550	530	3718	3540
18×16	※1537	※1559	※1537	650	500	550	530	4720	4496
20×16	※1664	※1686	※1664	650	500	550	530	5020	4781
18	※1537	※1559	※1537	783	585	812	-	5065	4824
20×18	※1664	※1686	※1664	783	585	812	-	6392	6088
20	※1664	※1686	※1664	880	635	914	-	7612	7250
24×20	※2043	※2071	※2043	880	635	914	-	8737	8321
24	※2043	※2071	※2043	1285	720	914	-	11387	10845

※L由厂方与用户协商确定(※ L will be confirmed by ths consumer and factory);

规则孔(Regular bore); 缩孔Reduce bore.

■W 指RF法兰面球阀重量(The W in the table means weight of Therefore End Ball Valve)

CLASS 900Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
16	1130	1140	1130	727	406	550	530	1998	1903
18×16	1219	1232	1219	727	406	550	530	2155	2050
20×16	1321	1334	1321	727	406	550	530	2495	2374
18	1219	1232	1219	785	418	550	530	2415	2300
20×18	1321	1334	1321	785	418	550	530	2730	2600
20	1321	1334	1321	839	561	550	530	3135	2985
24×20	1549	1568	1549	839	561	550	530	3895	3708
24	1549	1568	1549	853	634	812	-	5295	5040
30×24	※1880	※1902	※1880	853	634	812	-	7200	6850
26	※1651	※1674	※1651	909	725	914	-	6365	6060
28×26	※1753	※1775	※1753	909	725	914	-	-	-
28	※1753	※1775	※1753	980	765	914	-	7635	7270
30×28	※1880	※1902	※1880	980	765	914	-	-	-
30	※1880	※1902	※1880	1095	810	914	-	8846	8425
32×30	※2032	※2054	※2032	1095	810	914	-	-	-
36×30	※2286	※2315	※2286	1095	810	914	-	10778	10265
32	※2032	※2054	※2032	1270	840	914	-	10068	9589
34	※2159	※2188	※2159	1310	860	914	-	14250	13545
36	※2286	※2315	※2286	1445	893	914	-	15372	14640

CLASS 2500Lb

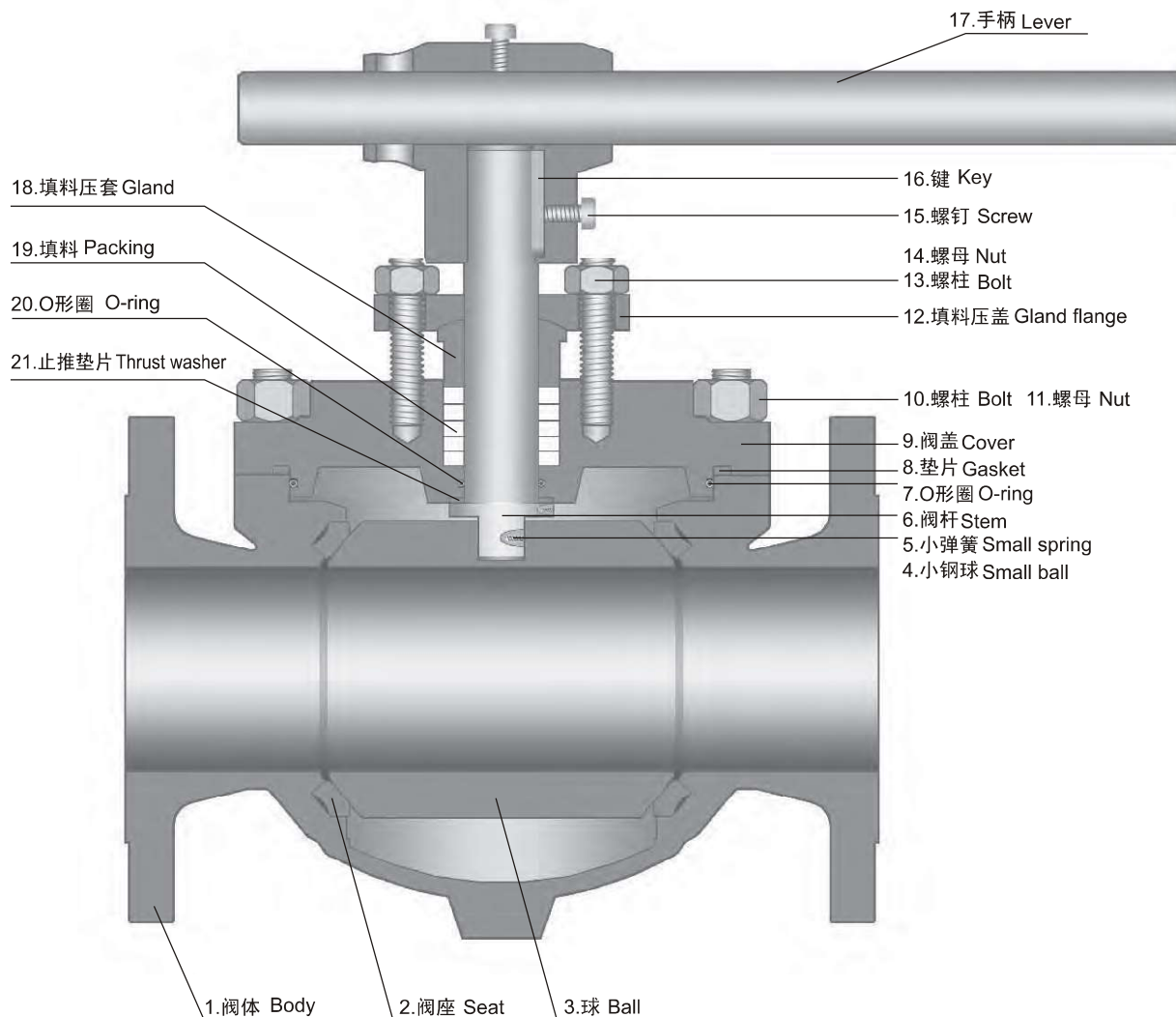
SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (kg)
6	914	927	914	385	250	450	430	745
8×6	1022	1038	1022	385	250	450	430	935
10×6	1270	1292	1270	385	250	450	430	1080
8	1022	1038	1022	502	340	500	510	1202
10×8	1270	1292	1270	502	340	500	510	1450
12×8	1422	1445	1422	502	340	500	510	1869
10	1270	1292	1270	600	411	500	510	2080
12×10	1422	1445	1422	600	411	500	510	2287
12	1422	1445	1422	715	498	550	510	3080

规则孔(Regular bore); 缩孔Reduce bore.

■W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

上装式浮动球阀主要结构图形

Top Entry Floating Type Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34, API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

按厂标 (Manufacturer's specification)

法兰连接尺寸 (Flange Connection Dimension):

ASME B16.5

对焊端尺寸 (BW Connection Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598

防火设计 (Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

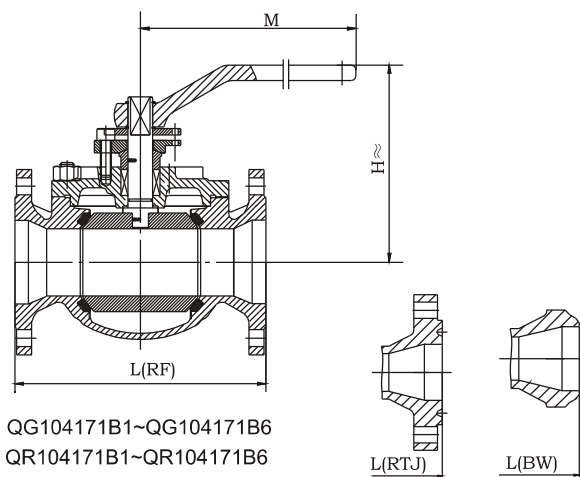
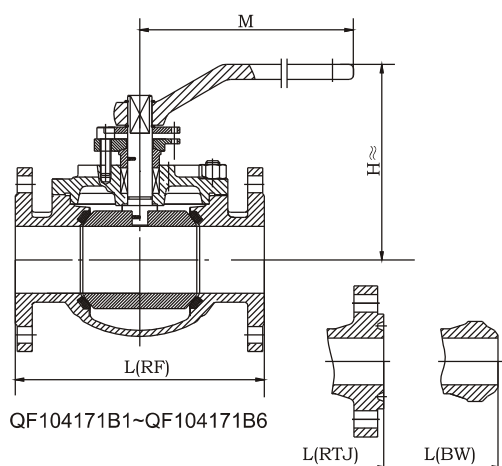
CAST STEEL BALL VALVE 铸钢球阀

主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	阀体 Body	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C CD4MCu、CN-3MN
2	阀座 Seat	PTFE、RPTFE、PEEK、PPL、POM、KARBATE、NYLON、MOLON、DEVLON
3	球 Ball	A105+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、ALLOY-20
4	小钢球 Small ball	SS304,SS316
5	小弹簧 Small spring	SS304,SS316
6	阀杆 Stem	1045+ENP、A182-F6、F304、F316、F304L、F316L、F321、F51、F53、 ALLOY-20、4140+ENP、17-4PH
7	O形圈 O-ring	NBR、VITON
8	垫片 Gasket	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
9	阀盖 Cover	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C CD4MCu、CN-3MN
10	螺母 Nut	A194-2H、2HM、8、8M
11	螺栓 Bolt	A193-B7、B7M、B8、B8M
12	填料压盖 Gland flange	A216 WCB,A351 CF8
13	螺母 Nut	A194-2H、2HM、8、8M
14	螺栓 Bolt	A193-B7、B7M、B8、B8M
15	螺钉 Screw	1035
16	键 Key	1045
17	手柄 Lever	A216 WCB+1020
18	填料压套 Gland	A182-F6、F304、F304L、F316、F316L、F51、F53、ALLOY-20、SS321
19	填料 Packing	PTFE,GRAPHITE
20	O形圈 O-ring	VITON
21	止推垫片 Thrust washer	PTFE、RPTFE、STAINLESS STEEL+N

上装式浮动球阀结构形式及尺寸表

Top Entry Floating Type Ball Valve Construction and Dimension CLASS 150Lb~600Lb



CLASS 150Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1/2	140	-	140	91	140	2.0
3/4 × 1/2 [Ⓒ]	108	-	140	91	140	3.0
3/4	152	-	152	122	160	4.3
1 × 3/4 [Ⓒ]	127	-	165	122	160	7.3
1	165	-	165	144	160	8
1 1/2 × 1 [Ⓓ]	165	-	191	144	160	11
1 1/2	191	-	191	150	200	16
2 × 1 1/2 [Ⓒ]	178	-	216	150	200	18
2	216	-	216	164	300	23
2 1/2	241	-	241	180	300	26
3 × 2	203	-	283	164	300	25
3	283	-	283	232	350	30
4 × 3 [Ⓒ]	305	-	305	232	350	46
4	432	-	432	285	400	55

CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1/2	165	-	165	95	140	5.0
3/4 × 1/2 [Ⓒ]	152	-	152	95	140	6.8
3/4	191	-	191	128	160	7.2
1 × 3/4 [Ⓒ]	165	-	165	128	160	8
1	216	-	216	152	160	11.5
1 1/2 × 1 [Ⓓ]	191	-	191	152	160	14
1 1/2	241	-	241	158	200	16.5
2 × 1 1/2 [Ⓒ]	216	-	216	158	200	20
2	292	-	292	188	250	25
2 1/2	330	-	330	194	300	30
3 × 2	283	-	283	188	250	35
3	356	-	356	242	350	48
4 × 3 [Ⓒ]	305	-	305	242	350	62
4	432	-	432	295	400	82

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1/2	165	163	165	102	160	6.5
3/4 × 1/2 [Ⓒ]	191	191	191	102	160	8.0
3/4	191	191	191	136	200	10.5
1 × 1/2 [Ⓒ]	216	216	216	136	160	13
1	216	216	216	162	200	15.6
1 1/2 × 1 [Ⓓ]	241	241	241	162	200	16

CLASS 600Lb

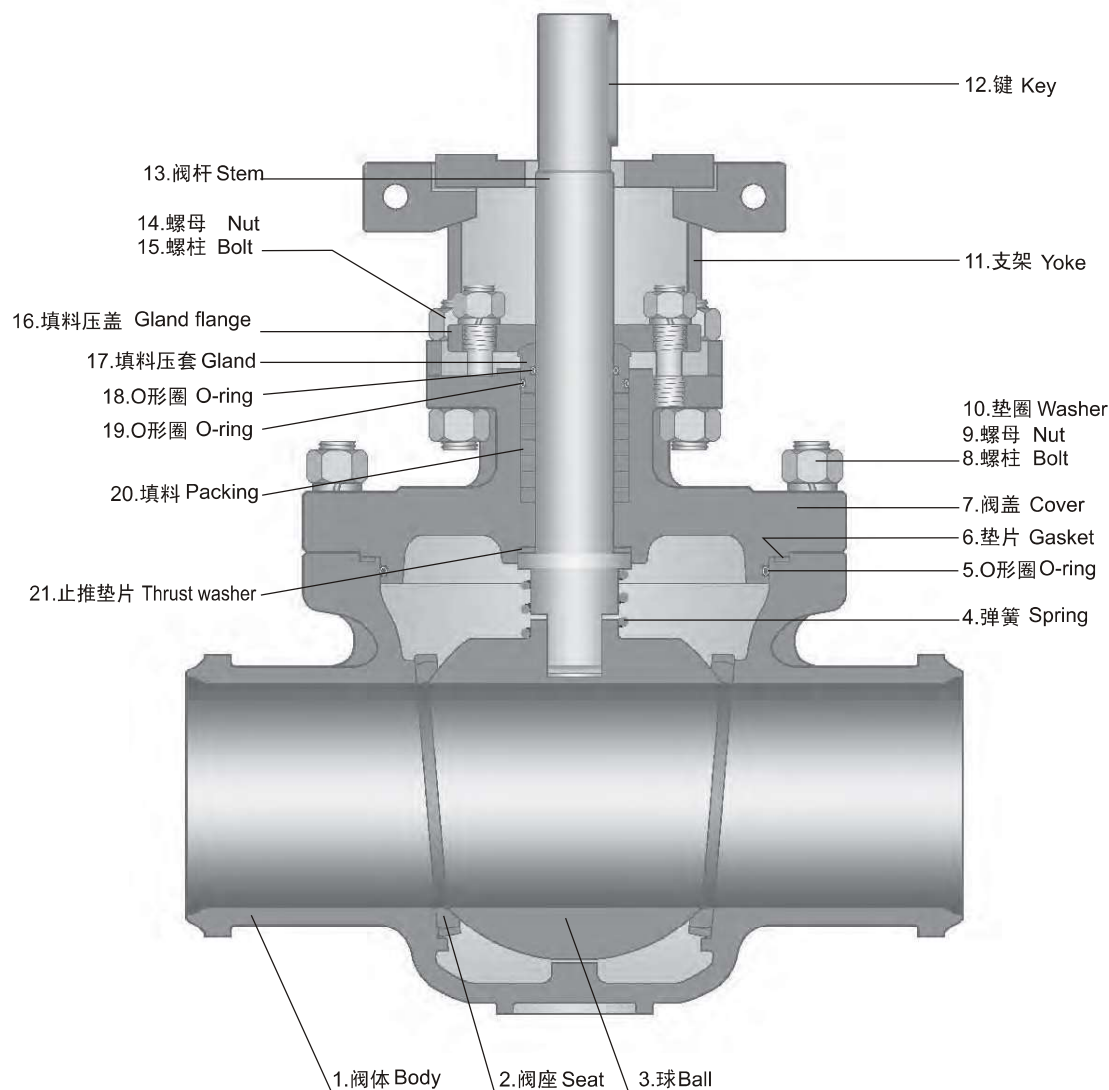
SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1/2	241	241	241	170	200	18
2 × 1 1/2 [Ⓒ]	292	295	292	170	200	23
2	292	295	292	196	350	29
2 1/2	330	333	330	203	400	35
3 × 2 [Ⓓ]	356	359	356	196	350	48
3	356	359	356	254	700	60

Ⓒ 规则孔(Regular bore); Ⓓ 缩孔Reduce bore.

■ W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

上装式浮动球阀主要结构图形

Top Entry Floating Type Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72
结构长度尺寸 (End to End Dimension):	按厂标 (Manufacturer's specification)
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D, API 598
防火设计 (Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem):	

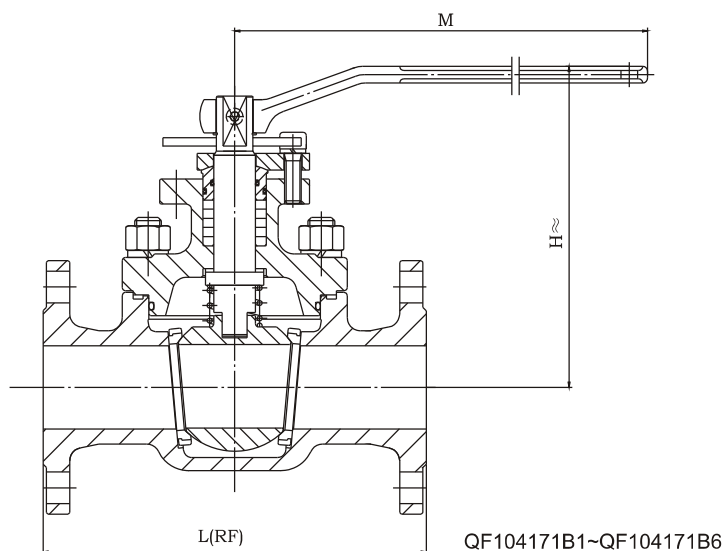
主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	阀体 Body	A216-WCB, WCC, A352-LCB, A351-CF8, CF8M, CF3, CF3M, CN7M, CF8C CD4MCu, CN-3MN
2	阀座 Seat	PTFE, RPTFE, PEEK, PPL, POM, KARBATE, NYLON, MOLON, DEVLON
3	球 Ball	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, ALLOY-20
4	弹簧 Spring	SS304, INCONEL
5	O形圈 O-ring	NBR, VITON
6	垫片 Gasket	SS304, SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
7	阀盖 Cover	A216-WCB, WCC, A352-LCB, A351-CF8, CF8M, CF3, CF3M, CN7M, CF8C CD4MCu, CN-3MN
8	螺柱 Bolt	A193-B7, B7M, B8, B8M
9	螺母 Nut	A194-2H, 2HM, 8, 8M
10	垫圈 Washer	ANSI 1566
11	支架 Yoke	A216-WCB, A351-CF8
12	键 Key	1045
13	阀杆 Stem	1045+ENP, A182-F6, F304, F316, F304L, F316L, F51, F53, F321, ALLOY-20 4140+ENP, 17-4PH
14	螺柱 Bolt	A193-B7, B7M, B8, B8M
15	螺母 Nut	A194-2H, 2HM, 8, 8M
16	填料压盖 Gland flange	A216 WCB, A351 C F8
17	填料压套 Gland	A182-F6, F304, F316, F304L, F316L, F51, F53, F321, ALLOY-20
18	O形圈 O-ring	VITON
19	O形圈 O-ring	NBR, VITON
20	填料 Packing	PTFE, GRAPHITE
21	止推垫片 Thrust washer	PTFE, RPTFE, STAINLESS STEEL+N

CAST STEEL BALL VALVE 铸钢球阀

上装式浮动球阀结构形式及尺寸表

Top Entry Floating Type Ball Valve Construction and Dimension CLASS 150Lb~600Lb



CLASS 150Lb

SIZE (in)	L(RF) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1/2	108	140	91	140	2.5
3/4 × 1/2 Ⓒ	117	152	91	140	3.2
3/4	152	1152	144	160	4.3
1 × 3/4 Ⓓ	127	165	144	160	7.3
1	165	165	150	200	8
1 1/2 × 1 Ⓓ	165	191	150	200	11
1 1/2	191	191	164	250	16
2 × 1 1/2 Ⓒ	178	216	164	250	18
2	216	216	180	300	23
2 1/2	241	241	195	350	26
3 × 2 Ⓓ	203	283	180	300	42
3	283	283	232	350	30
4 × 3 Ⓒ	229	305	232	350	46
4	305	305	285	400	55
6 × 4 Ⓒ	394	457	285	800	136
6	403	457	340	800	70
8 × 6 Ⓒ	457	521	340	-	195
8	502	521	405	-	111
10 × 8 Ⓒ	533	559	405	-	278

Ⓒ 规则孔(Regular bore); Ⓓ 缩孔Reduce bore.

■ W 指RF法兰面球阀重量(The W in the table means weight of Therefore End Ball Valve)

CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1/2	165	165	100	140	3
3/4 × 1/2 	152	152	100	140	4
3/4	191	191	100	160	5
1 × 1/2 	165	165	100	140	6
1	216	216	120	160	10
1 1/2 × 1 	191	191	120	160	14
1 1/2	241	241	140	200	16
2 × 1 1/2 	216	216	140	200	20
2	292	292	210	250	25
2 1/2	330	330	230	300	28
3 × 2 	283	283	210	250	38
3	356	356	222	350	45
4 × 3 	305	305	222	350	55
4	432	432	322	400	78
6 × 4 	403	457	322	400	148
6	559	559	382	1000	189
8 × 6 	502	521	382	1000	208
8	660	660	422	-	254

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1/2	165	163	165	120	160	6.0
3/4 × 1/2 	191	191	191	120	160	7.0
3/4	191	191	191	120	200	9.0
1 × 3/4 	216	216	216	120	160	11
1	216	216	216	136	200	15
1 1/2 × 1 	241	241	241	136	200	20
1 1/2	241	241	241	160	200	30
2 × 1 1/2 	292	295	292	160	200	42
2	292	295	292	215	350	45
2 1/2	330	333	330	235	400	60
3 × 2 	356	359	356	215	350	50
3	356	359	356	265	700	85
4 × 3 	432	435	432	265	700	95
4	432	435	432	287	800	142

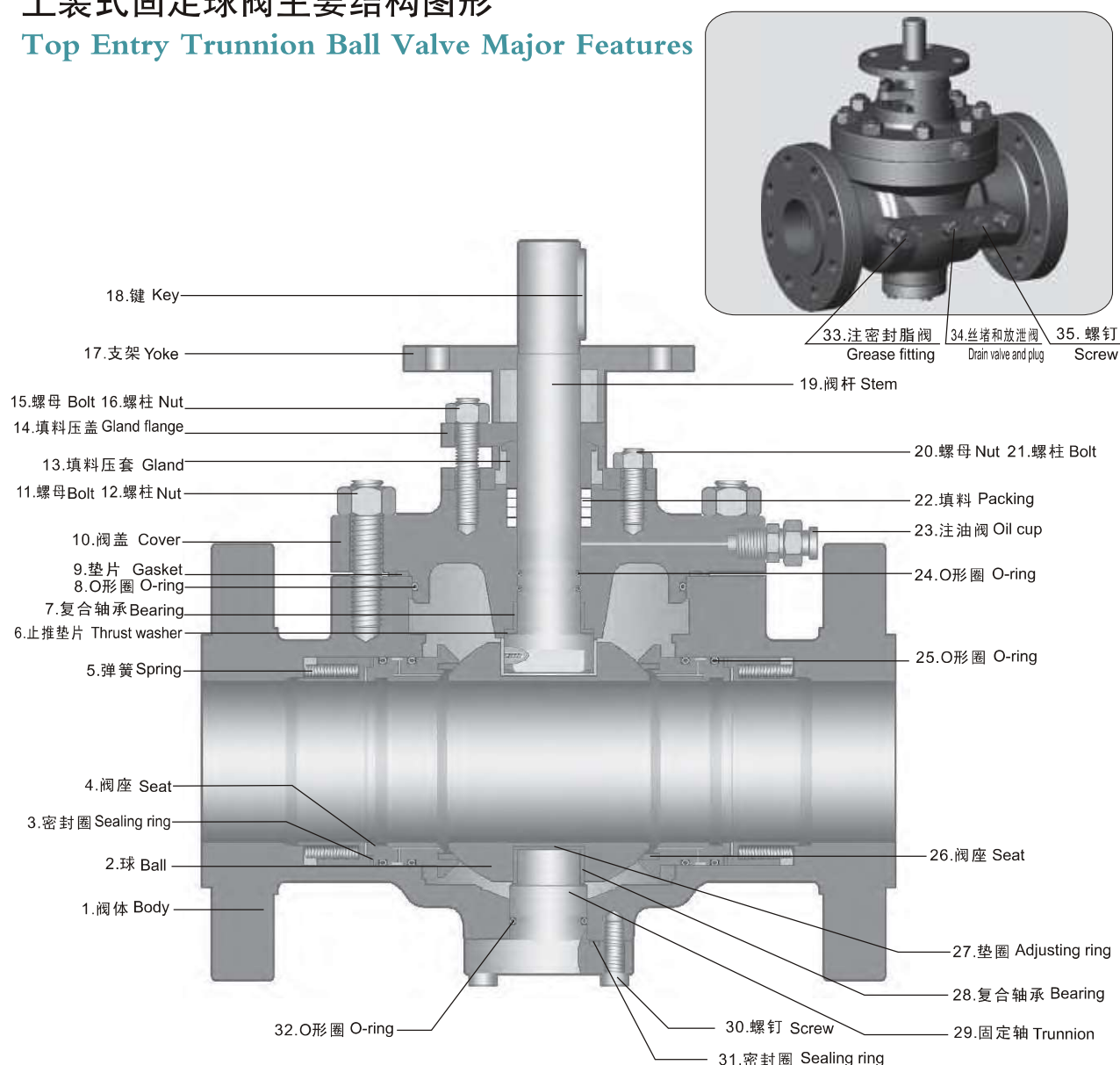
 规则孔(Regular bore);  缩孔(Reduce bore).

■ W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

CAST STEEL BALL VALVE 铸钢球阀

上装式固定球阀主要结构图形

Top Entry Trunnion Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

结构长度尺寸 (End to End Dimension):

法兰连接尺寸 (Flange Connection Dimension):

对焊端尺寸 (BW Connection Dimension):

检查和试验 (Test and Inspection):

防火设计(Fire-Safe Design):

防静电设计和防爆阀杆(Anti-Static Design&Anti Blow-Out Stem)

API 6D,ASME B16.34(BS5351),API 608,MSS-SP-72

按厂标(Manufacturer's specification)

ASME B16.5,NPS $\geq$ 26" PER as ASME B16.47

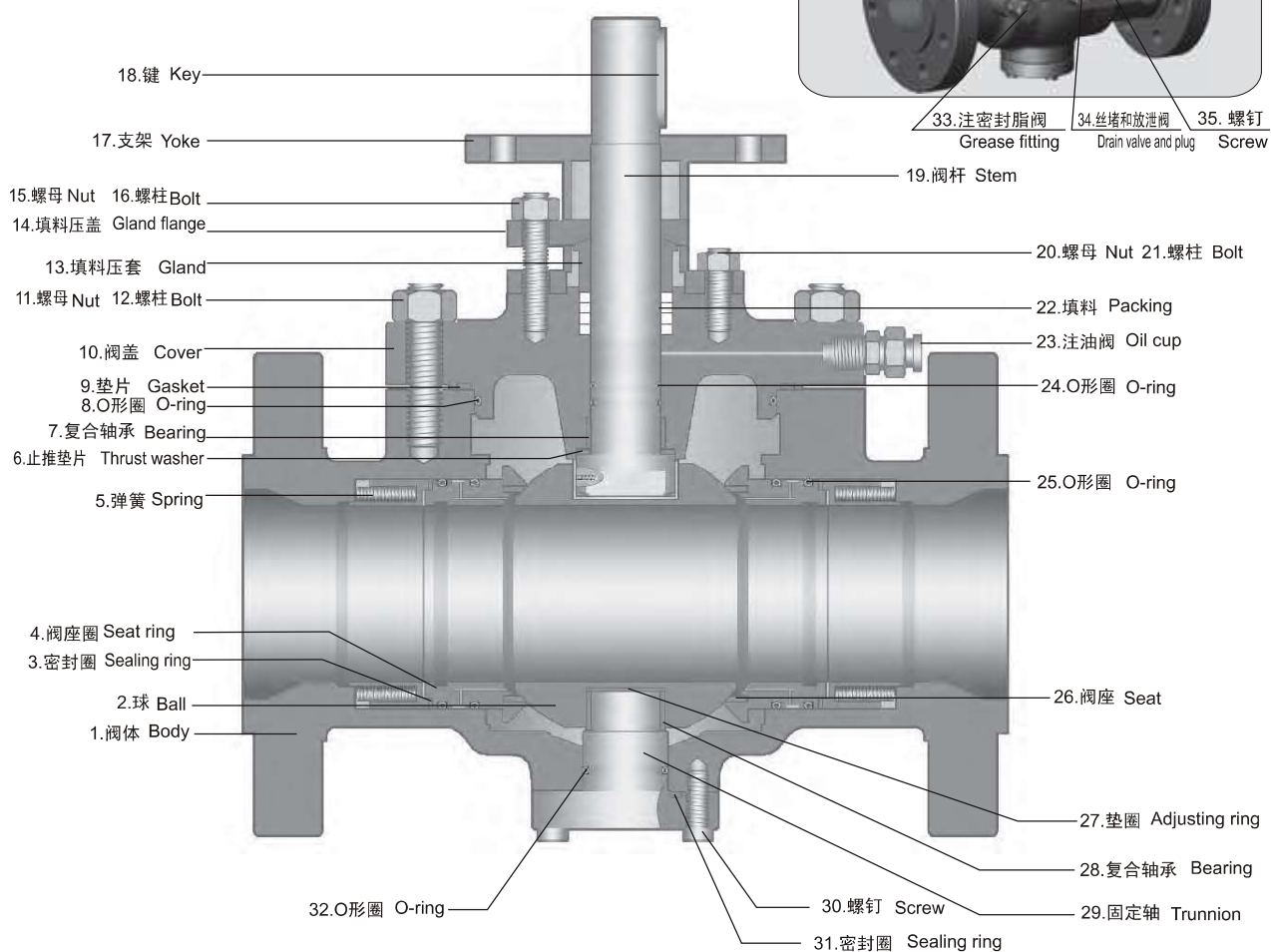
ASME B16.25

API 6D,API 598

API 607/6FA

上装式缩口固定球阀主要结构图形

Top Entry Reduced Port Trunnion Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

按厂标 (Manufacturer's specification)

法兰连接尺寸 (Flange Connection Dimension):

ASME B16.5, NPS ≥ 26" PER as ASME B16.47

对焊端尺寸 (BW Connection Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598

防火设计 (Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

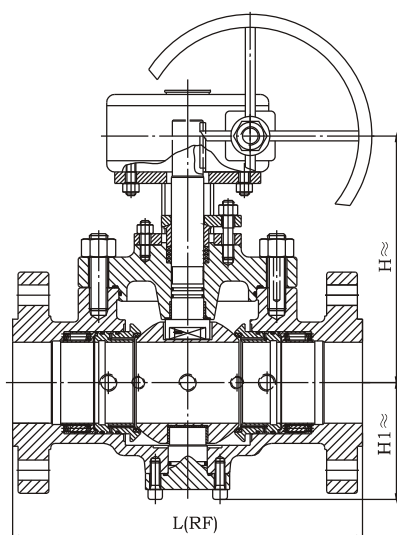
CAST STEEL BALL VALVE 铸钢球阀

主要材料 Main Material

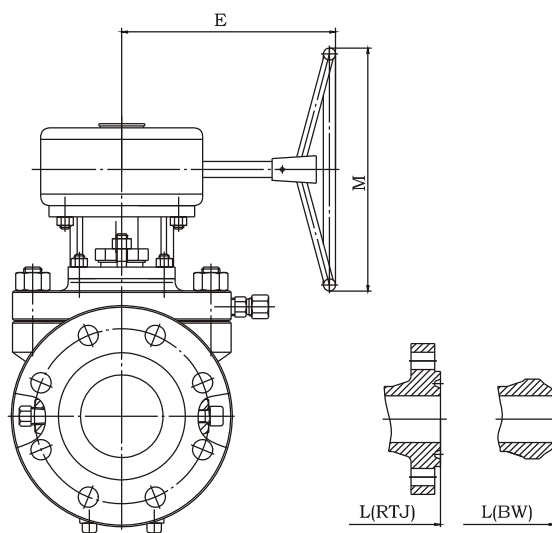
序号 No.	名称 PART NAME	材料 MATERIAL
1	阀体 Body	A216-WCB, WCC, A352-LCB, A351-CF8, CF8M, CF3, CF3M, CN7M, CF8C, CD4MCu, CN-3MN
2	球 Ball	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, ALLOY-20
3	密封圈 Sealing ring	FLEXIBLE GRAPHITE
4	阀座圈 Seat ring	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, ALLOY-20
5	弹簧 Spring	SS304, INCONEL, 1566+ENP
6	止推垫片 Thrust washer	PTFE, RPTFE, STAINLESS STEEL+N
7	复合轴承 Bearing	1045+RPTFE, SS304+RPTFE, SS316+RPTFE
8	O形圈 O-ring	NBR, VITON
9	垫片 Gasket	SS304, SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
10	阀盖 Cover	A216-WCB, WCC, A352-LCB, A351-CF8, CF8M, CF3, CF3M, CN7M, CF8C, CD4MCu, CN-3MN
11	螺母 Nut	A194-2H, 2HM, 8, 8M
12	螺栓 Bolt	A193-B7, B7M, B8, B8M
13	填料压套 Gland	A276-T410, T304, T304L, T316, T316L, T321, ALLOY-20
14	填料压盖 Gland flange	A216 WCB, A351 CF8
15	螺母 Nut	A194-2H, 8
16	螺栓 Bolt	A193-B7, B8
17	支架 Yoke	A216 WCB, A351 CF8
18	键 Key	1045
19	阀杆 Stem	1045+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, ALLOY-20, 4140+ENP, 17-4PH
20	螺母 Nut	A194-2H, 8
21	螺栓 Bolt	A193-B7, B8
22	填料 Packing	PTFE, GRAPHITE
23	注油阀 Oil cup	1025, SS304
24	O形圈 O-ring	VITON
25	O形圈 O-ring	VITON
26	阀座 Seat	PTFE, RPTFE, PEEK, PPL, POM, KARBATE, NYLON, MOLON, DEVLON
27	垫圈 Adjusting ring	PTFE, 1045+RTPFE, STAINLESS STEEL+RTPFE
28	复合轴承 Bearing	1045+RPTFE, SS304+RPTFE, SS316+RPTFE
29	固定轴 Trunnion	1045+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, ALLOY-20
30	螺钉 Screw	1035, STAINLESS STEEL
31	密封圈 Sealing ring	SS304, SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
32	O形圈 O-ring	NBR, VITON
33	注密封脂阀 Grease fitting	1025, SS304, SS316, SS304L, SS316L, SS321, ALLOY-20, F51, F53
34	丝堵和放泄阀 Drain valve and plug	1025, SS304, SS316, SS304L, SS316L, SS321, ALLOY-20, F51, F53
35	螺钉 Screw	1035, STAINLESS STEEL

上装式固定球阀结构形式及尺寸表

Top Entry Full Trunnion Type Ball Valve Construction and Dimension CLASS 150Lb~600Lb



QF134771B II 1~QF134771B II 5



CLASS 150Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
2	292	295	292	218	83	180	84	15
3×2 	356	359	356	218	83	180	84	18
3	356	359	356	295	117	180	84	33
4×3 	432	435	432	295	117	180	84	38
4	432	435	432	310	141	300	190	53
6×4 	559	562	559	310	141	300	190	79
6	559	562	559	340	193	300	254	111
8×6 	660	664	660	340	193	300	254	124.5
8	660	664	660	405	217	300	254	182
10×8 	787	791	787	405	217	300	254	235
10	787	791	787	465	270	300	270	369
12×10 	838	841	838	465	270	300	270	352.5
12	838	841	838	607	323	300	320	577.5
14×12 	889	892	889	607	323	300	320	603
14	889	892	889	650	323	400	380	685.5
16×14 	991	994	991	650	355	400	380	721.5
16	991	994	991	678	400	450	430	1084.5
18×16 	1092	1095	1092	678	400	450	430	1147.5
18	1092	1095	1092	720	440	500	510	1318.5
20×18 	1194	1200	1194	720	440	500	510	1470

 规则孔(Regular bore);  缩孔(Reduce bore).

■W 指RF法兰球阀重量(The W in the table means weight of RF End Ball Valve)

CLASS 150Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
20	1194	1200	1194	780	467	550	530	2310
24×20 	1397	1406	1397	780	467	550	530	2715
24	1397	1406	1397	905	551	550	530	3981
30×24 	1651	1664	1651	905	551	550	530	4356
26	1448	1460	1448	972	624	812	-	4680
28	1549	1562	1549	985	632	812	-	4815
30	1651	1664	1651	1042	715	812	-	5250
36×30 	2083	2098	2083	1042	715	812	-	5828
32	1778	1794	1778	1120	985	812	-	7088
36	2083	2098	2083	1217	836	914	-	10856
40	2337	2337	2337	1345	900	914	800	14021
42	2437	2437	2437	1534	935	914	800	15533
48	2540	2540	2540	1586	1050	914	800	24315

CAST STEEL BALL VALVE 铸钢球阀

CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
2	292	295	292	208	95	180	84	23
3×2 [Ⓜ]	356	359	356	208	95	180	84	30
3	356	359	356	275	122	300	190	45
4×3 [Ⓜ]	432	435	432	275	122	300	190	66
4	432	435	432	285	148	300	254	83
6×4 [Ⓜ]	559	562	559	285	148	300	254	98
6	559	562	559	335	201	300	254	135
8×6 [Ⓜ]	660	664	660	335	201	300	254	160.5
8	660	664	660	412	232	300	270	301.5
10×8 [Ⓜ]	787	791	787	412	232	300	270	333
10	787	791	787	460	283	400	342	525
12×10 [Ⓜ]	838	841	838	460	283	400	342	571.5
12	838	841	838	505	335	400	380	765
14×12 [Ⓜ]	889	892	889	505	335	400	380	820.5
14	889	892	889	537	360	450	430	1080
16×14 [Ⓜ]	991	994	991	537	360	450	430	1140
16	991	994	991	608	538	500	510	1750.5
18×16 [Ⓜ]	1092	1095	1092	608	538	500	510	1885.5
18	1092	1095	1092	695	437	500	510	2289
20×18 [Ⓜ]	1194	1200	1194	695	437	500	510	2484
20	1194	1200	1194	782	477	500	510	2808
24×20 [Ⓜ]	1397	1406	1397	782	477	500	510	3378
24	1397	1406	1397	896	585	550	530	4512
30×24 [Ⓜ]	1651	1664	1651	896	585	550	530	5637
26	1448	1460	1448	932	630	550	530	5124
28	1549	1562	1549	963	683	550	530	5802
30	1651	1664	1651	1068	715	762	-	7461
36×30 [Ⓜ]	2083	2098	2083	1068	773	762	-	8973
32	1778	1794	1778	1108	773	812	-	8511
36	2083	2098	2083	1200	875	914	-	11349
40	2337	2337	2337	1355	923	914	-	14452.5
42	2437	2437	2437	1355	958	914	-	16321.5
48	2540	2540	2540	1600	1108	914	-	23085

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
2	292	295	292	195	102	300	190	50
3×2 [Ⓜ]	356	359	356	195	102	300	190	56
3	356	359	356	220	129	300	190	102
4×3 [Ⓜ]	432	435	432	220	129	300	190	114
4	432	435	432	295	158	300	254	146
6×4 [Ⓜ]	559	562	559	295	158	300	254	153
6	559	562	559	335	200	300	380	283
8×6 [Ⓜ]	660	664	660	335	200	300	380	307
8	660	664	660	408	255	400	380	508.5
10×8 [Ⓜ]	787	791	787	408	255	400	430	643
10	787	791	787	508	302	450	430	777.5
12×10 [Ⓜ]	838	841	838	508	302	450	510	817.5
12	838	841	838	594	346	500	510	1440
14×12 [Ⓜ]	889	892	889	594	346	500	510	1488
14	889	892	889	648	385	500	510	1875
16×14 [Ⓜ]	991	994	991	648	385	500	510	1992
16	991	994	991	685	418	500	510	2958
18×16 [Ⓜ]	1092	1095	1092	685	418	500	510	3183
18	1092	1095	1092	775	460	500	510	2611.5
20×18 [Ⓜ]	1194	1200	1194	775	460	500	510	2764.5
20	1194	1200	1194	883	525	550	530	3315
24×20 [Ⓜ]	1397	1406	1397	883	525	812	530	4621.5
24	1397	1406	1397	942	615	812	-	5235
30×24 [Ⓜ]	1651	1664	1651	942	615	812	-	6744
26	1448	1461	1448	984	635	812	-	6787.5
28	1549	1562	1549	1016	700	812	-	7722
30	1651	1664	1651	1100	730	914	-	8652
36×30 [Ⓜ]	2083	2099	2083	1100	730	914	-	10593
32	1778	1794	1778	1288	796	914	-	10362
36	2083	2099	2083	1360	890	914	-	13117.5
40	※2337	※2337	※2337	1408	950	914	-	17977.5
42	※2437	※2437	※2437	1535	989	1016	-	21150
48	※2540	※2540	※2540	1775	1120	1016	-	32427

※L由厂方与用户协商确定(※ L will be confirmed by the costumer and factory);

Ⓜ规则孔(Regular bore); Ⓜ 缩孔Reduce bore.

■W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

CLASS 900Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
2	368	371	368	267	119	1300	190	71
3×2 	381	384	381	267	119	300	190	75
3	381	384	381	309	145	300	207	102
4×3 	457	460	457	309	145	300	207	117
4	457	460	457	347	169	300	254	147
6×4 	610	613	610	347	169	300	254	192
6	610	613	610	410	250	400	380	330
8×6 	737	740	737	410	250	400	380	394.5
8	737	740	737	464	280	450	430	750
10×8 	838	841	838	464	280	450	430	826.5
10	838	841	838	572	325	500	510	1413
12×10 	965	968	965	572	325	500	510	1515
12	965	968	965	642	380	500	510	1800
14×12 	1029	1038	1029	642	380	500	510	1965
14	1029	1038	1029	745	395	550	530	2482.5
16×14 	1130	1140	1130	745	395	550	530	2782.5
16	1130	1140	1130	797	406	550	530	2854.5
18×16 	1219	1232	1219	797	406	550	530	3075
18	1219	1232	1219	901	418	550	530	3450
20×18 	1321	1334	1321	901	418	550	530	3900
20	1321	1334	1321	920	561	500	530	4477.5
24×20 	1549	1568	1549	920	561	500	530	5562
24	1549	1568	1549	953	634	812	-	7560
30×24 	※1880	※1902	※1880	953	634	914	-	10275
26	※1651	※1674	※1651	1009	725	914	-	9090
28	※1753	※1775	※1753	1109	-	914	-	10905
30	※1880	※1902	※1880	1195	-	914	-	12637.5
36×30 	※2286	※2315	※2286	1195	-	914	-	15397.5
32	※2032	※2054	※2032	1370	-	914	-	14383
36	※2286	※2315	※2286	1645	893	914	-	21960

CLASS 1500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
2	368	371	368	287	122	300	190	60
3×2 	470	473	470	287	122	300	190	75
3	470	473	470	319	163	300	254	143
4×3 	546	549	546	319	163	300	254	162
4	546	549	546	347	173	300	320	270
6×4 	705	711	705	347	173	300	320	338
6	705	711	705	415	211	400	380	570
8×6 	832	841	832	415	211	400	380	727.5
8	832	841	832	545	274	450	430	112.5
10×8 	991	1000	991	545	274	450	430	1434
10	991	1000	991	648	310	500	510	1747.5
12×10 	1130	1146	1130	648	310	500	510	1900.5
12	1130	1146	1130	766	485	500	510	2437.5
14×12 	1257	1276	1257	766	485	500	510	2737.5
14	1257	1276	1257	831	510	550	530	2970
16×14 	1384	1407	1384	831	510	550	530	3420
16	1384	1407	1384	872	500	550	530	5310
18×16 	※1537	※1559	※1537	872	500	550	530	6744
18	※1537	※1559	※1537	903	585	812	-	7236
20×18 	※1664	※1686	※1664	903	585	812	-	9132
20	※1664	※1686	※1664	1020	635	914	-	10875
24×20 	※2043	※2071	※2043	1020	635	914	-	12481.5
24	※2043	※2071	※2043	1107	720	914	--	16267.5

※L由厂方与用户协商确定(※ L will be confirmed by the costumer and factory);

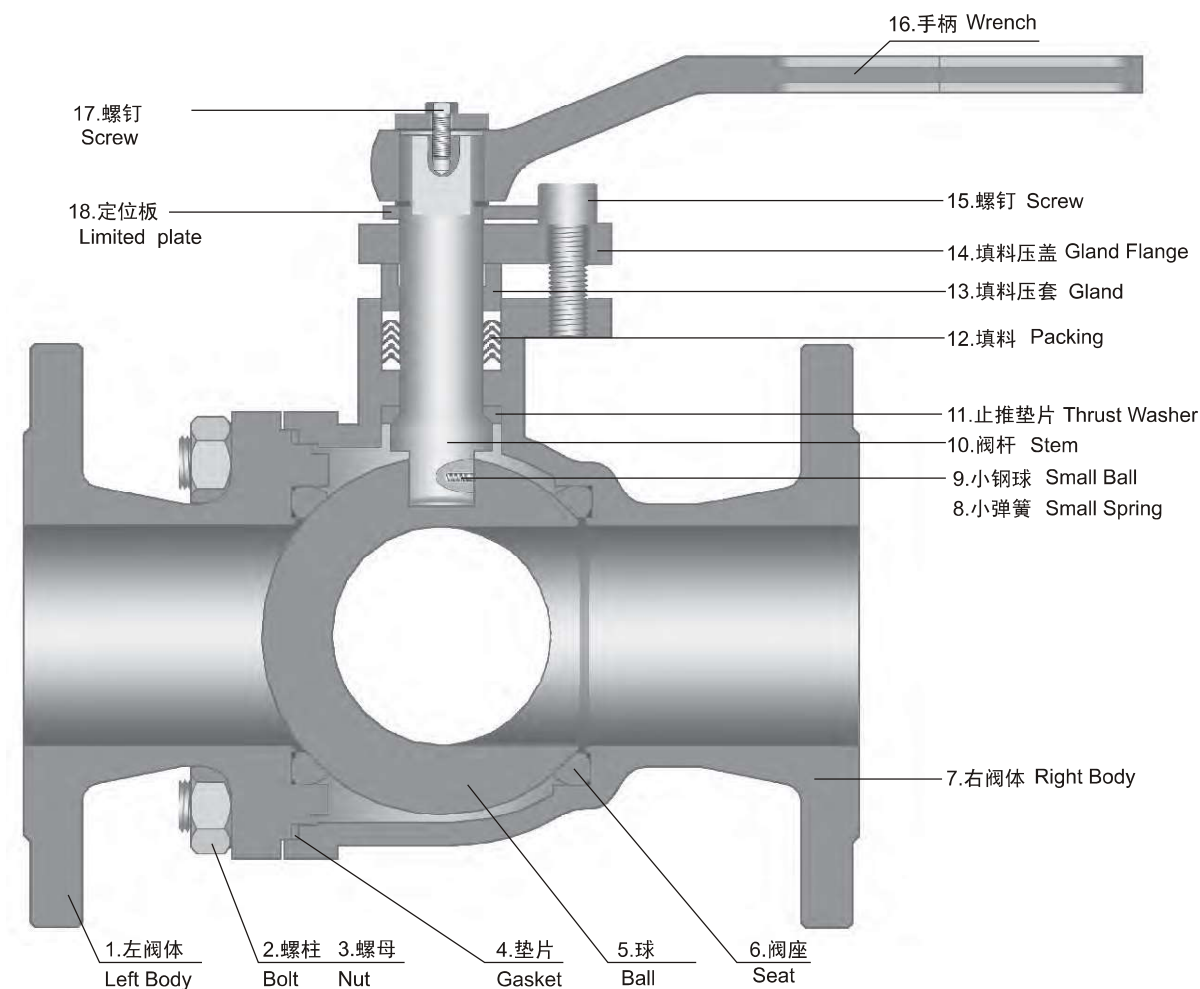
规则孔(Regular bore);  缩孔(Reduce bore).

■W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

CAST STEEL BALL VALVE 铸钢球阀

二阀座三通球阀主要结构图形

Two Seats Three-Way Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

按厂标 (Manufacturer's specification)

法兰连接尺寸 (Flange Connection Dimension):

ASME B16.5

对焊端尺寸 (BW Connection Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598

防火设计 (Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

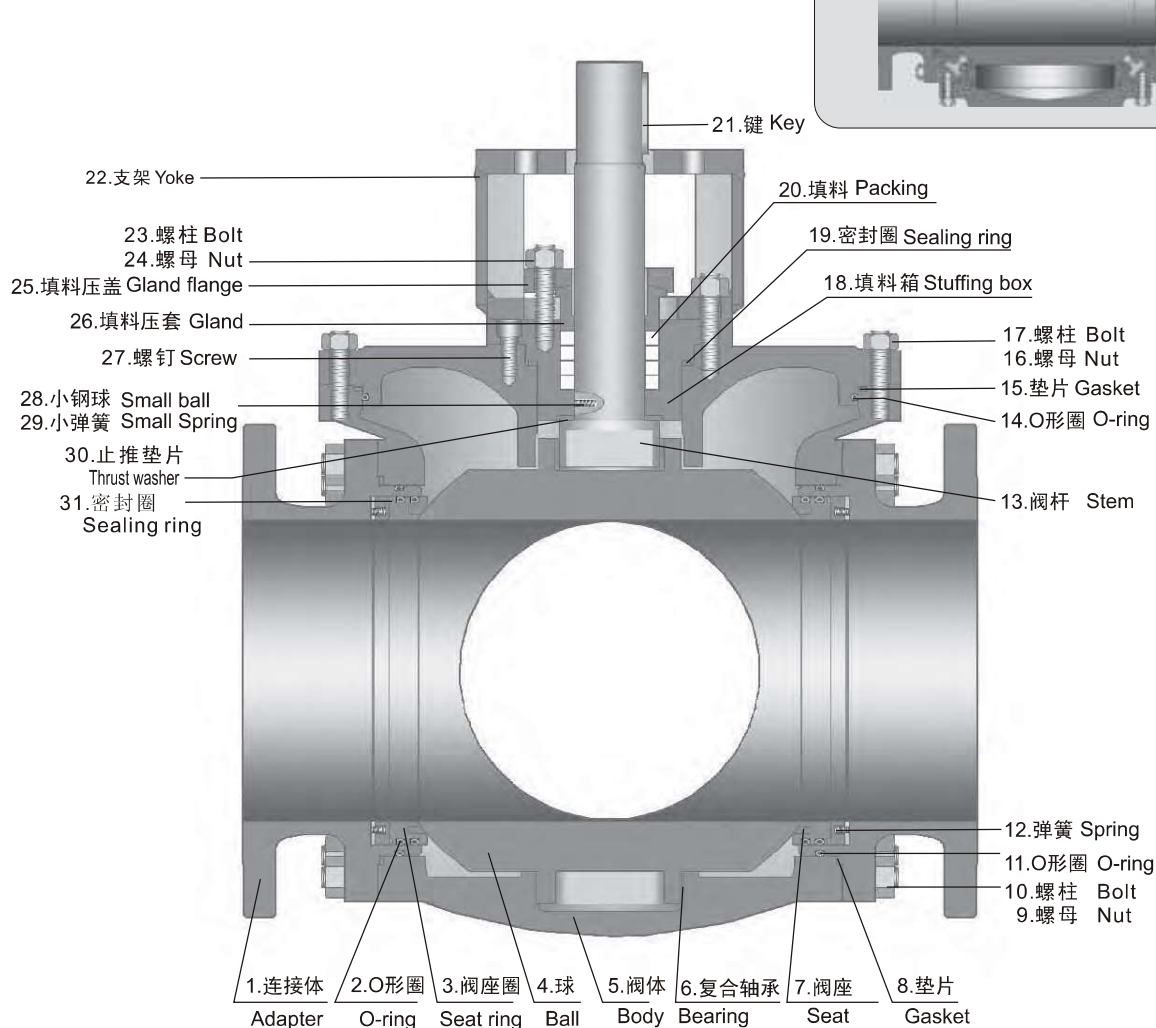
主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	左阀体 Left Body	A216-WCB、WCC, A352-LCB、LCC, A351-CF8、CF8M、CF3、CF3M、 CN7M、CF8C、CD4MCu、CN-3MN
2	螺栓 Bolt	A194-2H、2HM、8、8M
3	螺母 Nut	A193-B7、B7M、B8、B8M
4	垫片 Gasket	Flexible Graphite+304, Flexible Graphite+316, PTFE
5	球 Ball	A105+ENP, A350 LF2+ENP, A182-F6、F-304、F304L、F316、F316L、F51、F53、 ALLOY-20
6	阀座 Seat	PTFE、RPTFE、PEEK、PPL、POM、KARBATE、NYLON、MOLON、DEVLON
7	右阀体 Right Body	A216-WCB、WCC, A352-LCB、LCC, A351-CF8、CF8M、CF3、CF3M、 CN7M、CF8C、CD4MCu、CN-3MN
8	小弹簧 Small Spring	SS304,SS316
9	小钢球 Small Ball	SS304,SS316
10	阀杆 Stem	A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20,
11	止推垫片 Thrust Washer	PTFE、RPTFE、STAINLESS STEEL+N
12	填料 Packing	Flexible Graphite, PTFE
13	填料压套 Gland	A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20,
14	填料压盖 Gland Flange	A216-WCB
15	螺钉 Screw	1035
16	手柄 Wrench	A216-WCB
17	螺钉 Screw	AISI 1035
18	定位板 Limit Plate	1025, Stainless Steel

CAST STEEL BALL VALVE 铸钢球阀

四阀座三通球阀主要结构图形

Four Seats Three-Way Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

结构长度尺寸 (End to End Dimension):

法兰连接尺寸 (Flange Connection Dimension):

对焊端尺寸 (BW Connection Dimension):

检查和试验 (Test and Inspection):

防火设计(Fire-Safe Design):

防静电设计和防爆阀杆(Anti-Static Design&Anti Blow-Out Stem)

API 6D, ASME B16.34 (BS5351), API 608, MSS-SP-72

按厂标(Manufacturer's specification)

ASME B16.5

ASME B16.25

API 6D,API 598

API 607/6FA

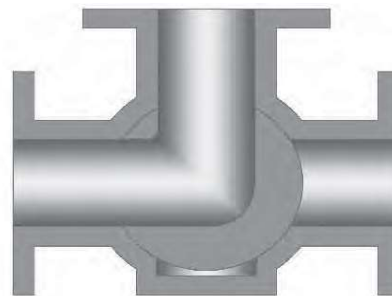
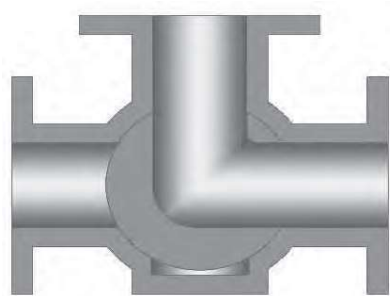
主要材料 Main Material

序号 No.	名称	PART NAME	材料 MATERIAL
1	连接体	Adapter	A216-WCB、WCC, A352-LCB, A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C CD4MCu、CN-3MN
2	O形圈	O-ring	VITON
3	阀座圈	Seat ring	A105+ENP, A182-F6、F304、F316、F304L、F316L、F321、F51、F53, ALLOY-20
4	球	Ball	A105+ENP, A182-F304、F316、F304L、F316L、F321、F51、F53, ALLOY-20
5	阀体	Body	A216-WCB、WCC, A352-LCB, A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C CD4MCu、CN-3MN
6	复合轴承	Bearing	1045+RPTFE, SS304+RPTFE, SS316+RPTFE
7	阀座	Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
8	垫片	Gasket	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
9	螺母	Nut	A194 2H、2HM、8、8M
10	螺栓	Bolt	A193 B7、B7M、B8、B8M
11	O形圈	O-ring	NBR、VITON
12	弹簧	Spring	SS304, INCONEL
13	阀杆	Stem	1045+ENP, A276-T410、T304、T316、T304L、T316L、T321, ALLOY-20
14	O形圈	O-ring	NBR、VITON
15	垫片	Gasket	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
16	螺母	Nut	A194 2H、2HM、8、8M
17	螺栓	Bolt	A193 B7、B7M、B8、B8M
18	填料箱	Stuffing box	A105+ENP, A182-F304、F316、F304L、F316L、F321、F51、F53, ALLOY-20
19	密封圈	Sealing ring	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
20	填料	Packing	PTFE, GRAPHITE
21	键	Key	1045
22	支架	Yoke	1025, SS304, A216-WCB, A351-CF8
23	螺母	Nut	A194-2H、8
24	螺栓	Bolt	A193-B7、B8
25	填料压盖	Gland flange	A216-WCB, A352-LCB, A351-CF8
26	填料压套	Gland	A182-F6、F304、F316、F304L、F316L、F321、F51、F53, ALLOY-20
27	螺钉	Screw	1035, STAINLESS STEEL
28	小钢球	Small ball	SS304,SS316
29	小弹簧	Small spring	SS304,SS316
30	止推垫片	Thrust washer	PTFE、RPTFE、STAINLESS STEEL+N
31	密封圈	Sealing ring	FLEXIBLE GRAPHITE

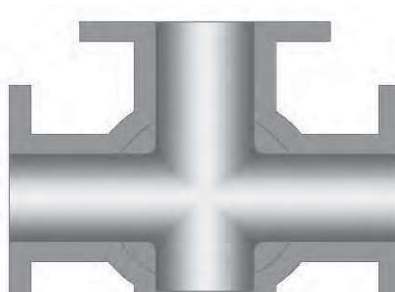
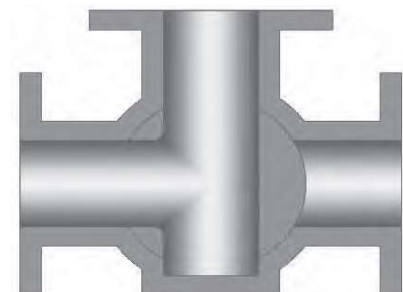
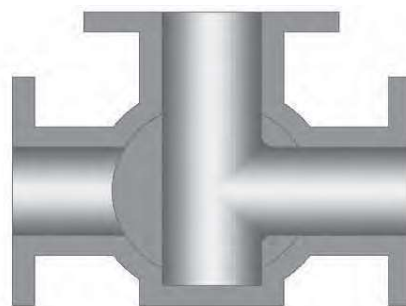
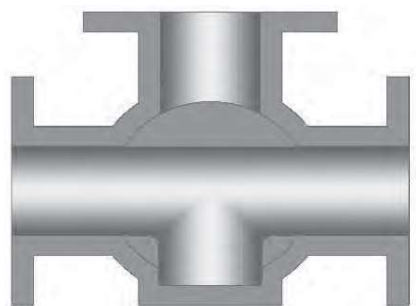
CAST STEEL BALL VALVE 铸钢球阀

L型三通球阀用于管路中介质流向进行切换 & T型三通球阀用于管路中介质的分流、合流及流向切换

"L" type 3-way ball valves, can be used for the flow direction change in the pipeline. "T" Type 3-wall ball valves can be used for the diffluence at the fluid, confluence of the fluid and the change of the flow direction.



(L型三通球阀的两种使用状态)
2 Working status for "L" type

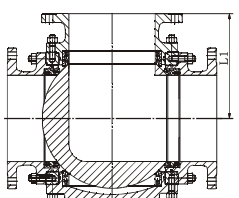
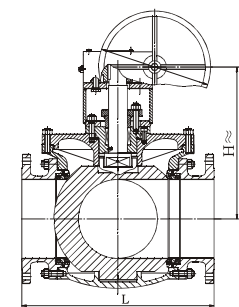


(T型三通球阀的四种使用状态)
4 Working status for "T" type

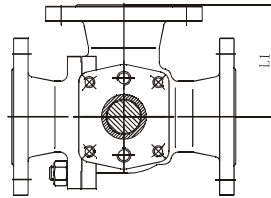
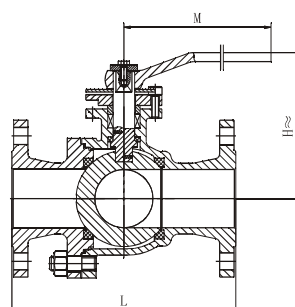
三通球阀结构形式及尺寸表

Three-Way Ball Valve Construction and Dimension

CLASS 150Lb~1500Lb



QF134751B I 1~QF134751B I 3



QF104141B1~QF104141B3

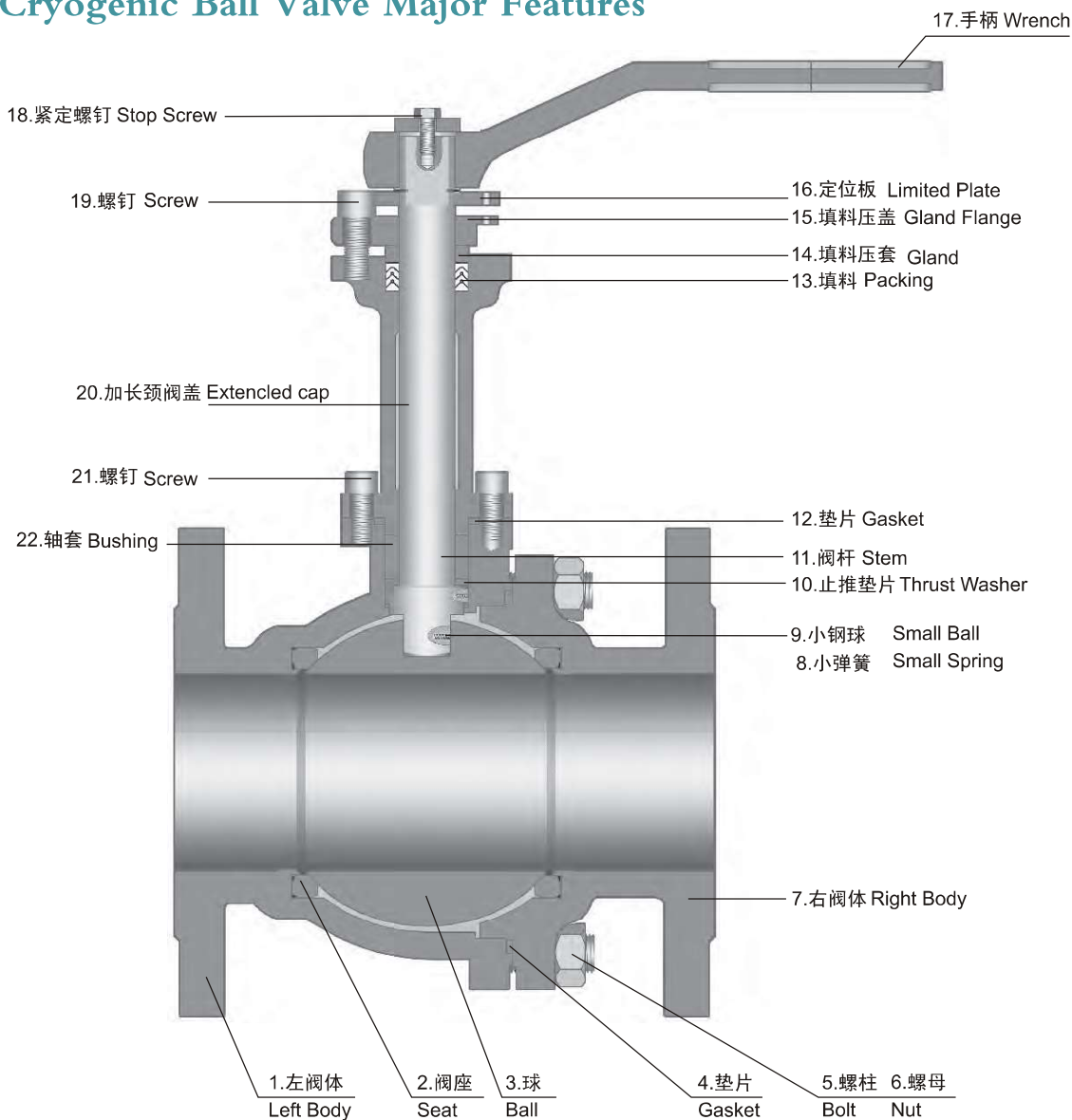
	SIZE (in)	L (mm)	L1 (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
CLASS 150Lb	1/2	140	70	64	140	3.5
	3/4	165	83	84	160	5.1
	1	165	83	84	160	6.7
	1 1/2	250	125	152	200	9.9
	2	260	130	157	250	14
	2 1/2	320	160	183	300	21
	3	320	160	183	350	27
	4	370	185	195	400	45
	6	510	255	355	800	127
	8	580	290	430	-	227
	10	670	335	475	-	315
CLASS 300Lb	12	720	360	550	-	357
	1/2	140	70	85	140	4.5
	3/4	165	83	105	160	6.5
	1	165	83	105	160	8
	1 1/2	250	125	175	200	12
	2	260	130	177	250	16
	2 1/2	320	160	203	300	25
	3	320	160	203	350	31
	4	370	185	215	400	49
	6	510	255	375	800	136
	8	580	290	455	-	250
	10	670	335	495	-	342
	12	720	360	575	-	385

■W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

CAST STEEL BALL VALVE 铸钢球阀

低温球阀主要结构图形

Cryogenic Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34 (BS6364), API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

API 6D, ASME B16.10

法兰连接尺寸 (Flange Connection Dimension):

ASME B16.5, NPS $\geq 26"$ PER as ASME B16.47

对焊端尺寸 (BW Connection Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598 (BS6364)

防火设计 (Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	左阀体 Left Body	-46℃ -101℃ -196℃ A352-LCB、LCC LC3 A351-CF8-CF8M
2	阀座 Seat	PTFE、RPTFE、PCTFE
3	球 Ball	A182-F304、F316
5	垫片 Gasket	Flexible Graphite+304, Flexible Graphite+316, PTFE
6	螺母 Bolt	A194-4、7、7M A194-8、8M
7	螺柱 Nut	A320-L7、L7M A193-B8、B8M
8	右阀体 Right Body	A352-LCB、LCC、LC3,A351-CF8、CF8M
9	小弹簧 Small Spring	SS304,SS316
10	小钢球 Small Ball	SS304,SS316
11	止推垫片 Thrust Washer	PTFE
12	阀杆 Stem	A182-F6、F304、F316
13	垫片 Gasket	Flexible Graphite+304, Flexible Graphite+316
14	填料 Packing	Flexible Graphite, PTFE
15	填料压套 Gland	A182-F6、F304、F316
16	填料压盖 Gland Flange	A352-LCB,A351-CF8
17	定位板 Limited Plate	1025、stainless steel
18	手柄 Lever	A216-WCB
19	紧定螺钉 Screw	1025
20	螺钉 Screw	1035,stainless steel
21	加长颈阀盖 Extend cap	A352-LCB、LCC、LC3, A351- CF8、CF8M
22	螺钉 Screw	1035,stainless steel
23	轴套 Bushing	A182-F6、F304、F316

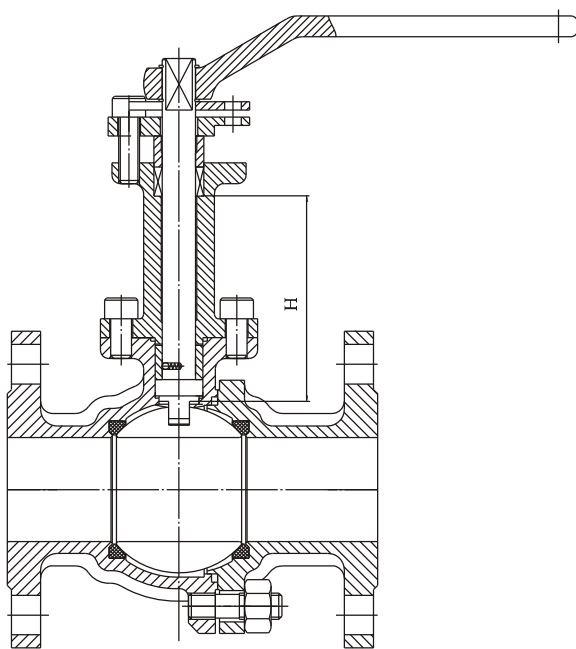
CAST STEEL BALL VALVE 铸钢球阀

低温球阀

Cryogenic Ball Valve Construction

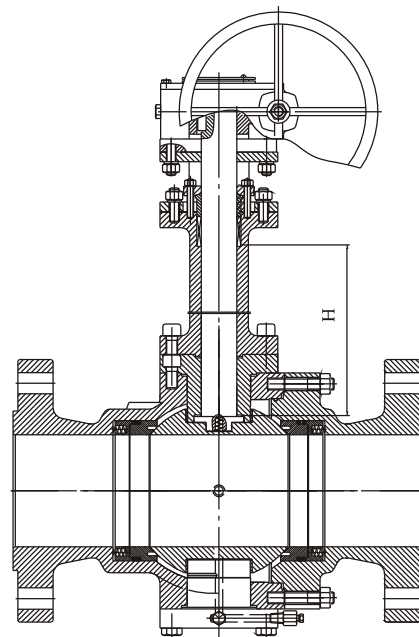
低温球阀分为低温浮动球阀和低温固定球阀两类，其产品范围、结构长度等参见浮动球阀和固定球阀数据，低温加长颈的高度根据标准的规定，也可根据客户的要求。

Cryogenic ball valve consists of cryogenic floating ball valve and cryogenic trunnion ball valve. About the data of product range and face-to-face dimension, please refer to the data of floating ball valve and trunnion ball valve. Extended bonnet length follows our company's specification. We can also refer to customer's requirements.



QF1041931B1~QF1041931B6

SIZE (in)	H (*)		
	-46℃	-101℃	-196℃
1/2	90	110	130
3/4	100	110	140
1	100	120	150
1 1/2	110	130	160
2	110	130	170
3	120	150	190
4	130	160	200
6	140	170	220



QF1347931B II 1~QF1347931B II 6

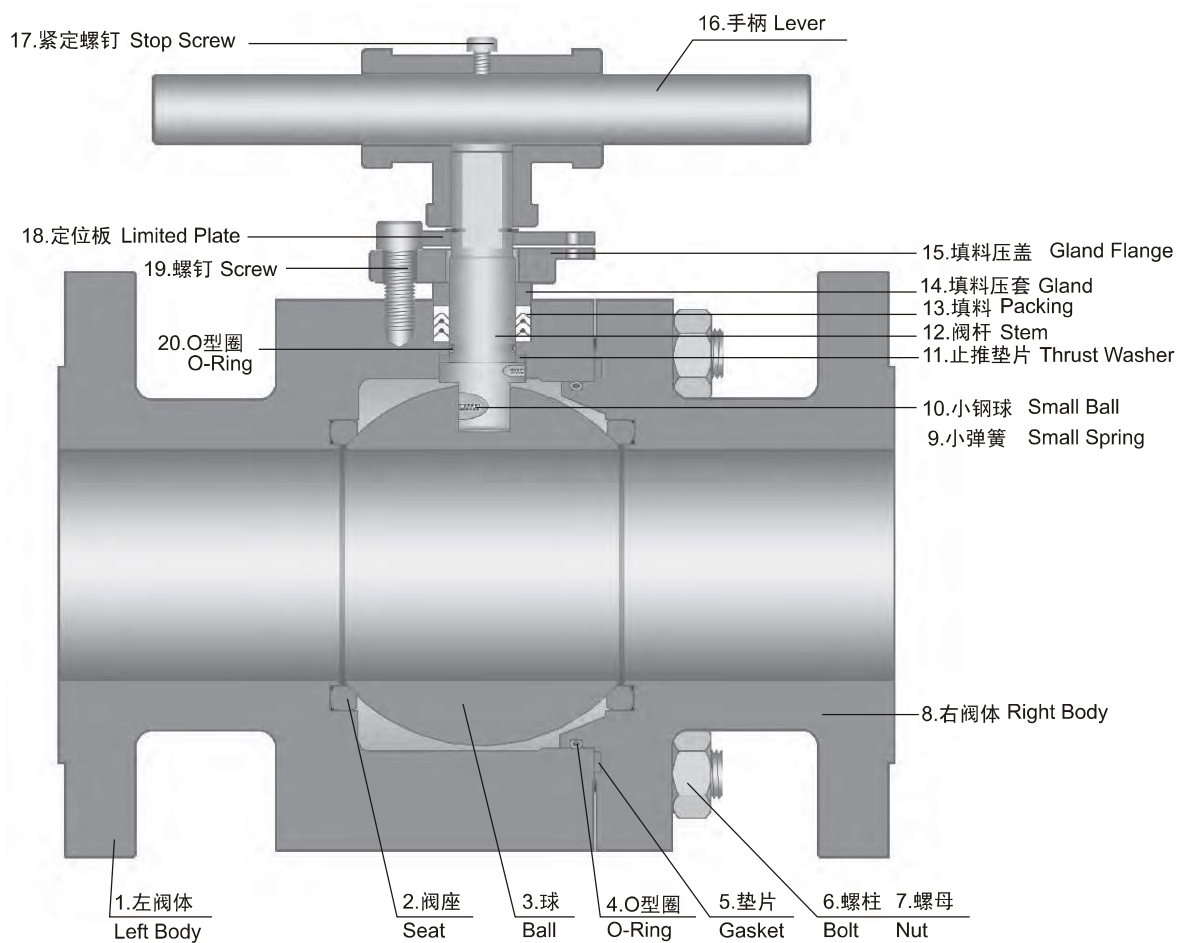
SIZE (in)	H (*)		
	-46℃	-101℃	-196℃
8	140	170	220
10	150	180	240
12	150	180	240
14	160	190	250
16	160	190	250
18	160	190	250
20	170	200	260
24	170	200	260

“*” 低温加长部分可以按用户要求设计。

“*” the extension part for low temperature service can be designed acc. to clients requirement.

二片式浮动球阀主要结构图形

2PC Floating Ball Valve Major Features

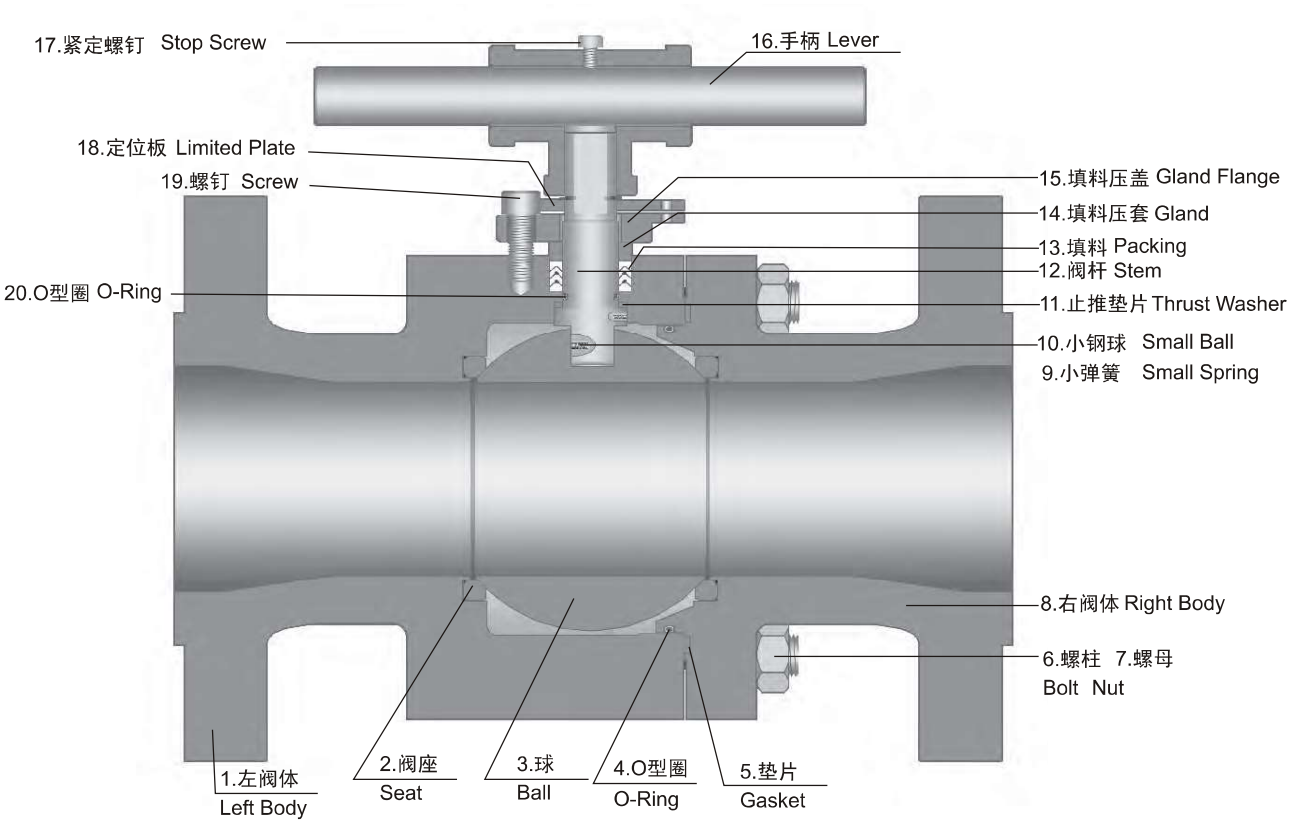


主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72
结构长度尺寸 (End to End Dimension):	API 6D, ASME B16.10
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D, API 598
防火设计 (Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)	

FORGED STEEL BALL VALVE 锻钢球阀

二片式浮动缩口球阀主要结构图形 2PC Floating Reduced Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72
结构长度尺寸 (End to End Dimension):	API 6D, ASME B16.10
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D, API 598
防火设计(Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆(Anti-Static Design&Anti Blow-Out Stem)	

主要材料 Main Material

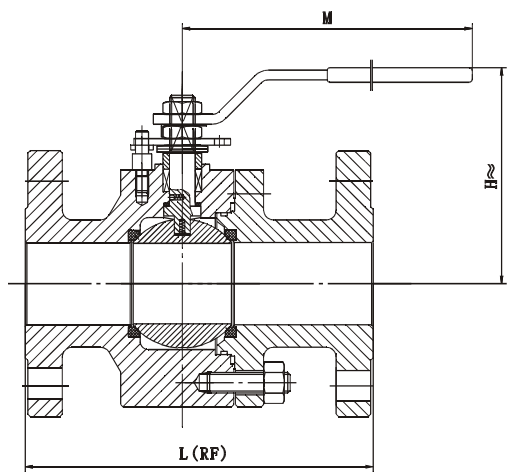
序号 No.	名称 PART NAME	材料 MATERIAL
1	左阀体 Left Body	A105, A350-LF2, A182-F304、F316、F304L、F316L、F321、F51、F53,ALLOY-20
2	阀座 Seat	PTFE、RPTFE、PEEK、PPL、POM、KARBATE、NYLON、MOLON、DEVLON
3	球 Ball	A105+ENP, A350 LF2+ENP, A182-F、F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20
4	O形圈 O-Ring	NBR、VITON
5	垫片 Gasket	Flexible Graphite+304, Flexible Graphite+316, PTFE
6	螺柱 Bolt	A194-2H、2HM、8、8M
7	螺母 Nut	A193-B7、B7M、B8、B8M
8	右阀体 Right Body	A105, A350-LF2, A182-F304、F316、F304L、F316L、F321、F51、F53,ALLOY-20
9	小弹簧 Small Spring	SS304,SS316
10	小钢球 Small Ball	SS304,SS316
11	止推垫片 Thrust Washer	PTFE、RPTFE、STAINLESS STEEL+N
12	阀杆 Stem	1045+ENP,A182-F6、F304、F316、F304L、F316L、F321、F51、F53,ALLOY-20 4140+ENP,17-4PH
13	填料 Packing	Flexible Graphite, PTFE
14	填料压套 Gland	A182-F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20
15	填料压盖 Gland Flange	A351-CF8
16	手柄 Lever	A216 WCB+1020
17	紧定螺钉 Screw	1035
18	定位板 Limited Plate	1025, Stainless Steel
19	螺钉 Screw	A193-B7, B8
20	O形圈 O-Ring	VITON

FORGED STEEL BALL VALVE 锻钢球阀

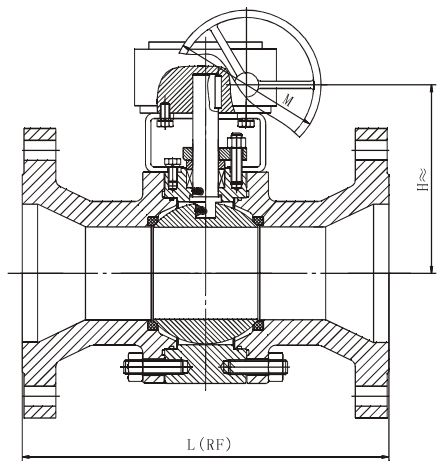
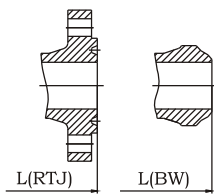
浮动球阀结构形式及尺寸表

Floating Ball Valve Construction and Dimension

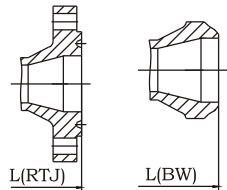
CLASS 150Lb~600Lb CLASS 150Lb



QF204121B1~QF204121B6



QG204121B1~QG204121B3
QR204121B1~QR204121B6



SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
1/2 × 3/8 ^(R)	108	-	140	79	140	3.0
1/2	108	-	140	79	140	3.0
3/4 × 1/2 ^(R)	117	-	152	79	140	3.6
3/4	117	-	152	96	160	3.6
1 × 3/4 ^(G)	127	140	165	96	160	5.4
1 × 1/2 ^(R)	127	140	165	79	140	4.0
1	127	140	165	96	160	5.4
1 1/4	140	152	178	102	180	6.8
1 1/2 × 1 ^(R)	165	178	191	96	160	7.0
1 1/2 × 1 1/4 ^(G)	165	178	191	102	180	7.0
1 1/2	165	178	191	118	200	8.5
2 × 1 1/4 ^(R)	178	191	216	102	180	9.0
2 × 1 1/2 ^(G)	178	191	216	118	200	10.5
2	178	191	216	147	250	12
2 1/2	191	203	241	152	300	17
3 × 2 ^(R)	203	216	283	147	250	17
3 × 2 1/2 ^(G)	203	216	283	152	300	20
3	203	216	283	153	350	23
4 × 2 1/2 ^(R)	229	241	305	152	300	28
4 × 3 ^(G)	229	241	305	153	350	32
4	229	241	305	204	400	40
6 × 3 ^(R)	394	406	457	153	350	40
6 × 4 ^(G)	394	406	457	204	400	68
6	394	406	457	342	800	80
8 × 4 ^(R)	457	470	521	204	400	78
8 × 6 ^(G)	457	470	521	342	800	90
8	457	470	521	456	300*	156
10 × 6 ^(R)	533	546	559	342	800	-
10 × 8 ^(G)	533	546	559	456	300*	174
10	533	546	559	511	400*	300

■W 指RF法兰球阀重量(The W in the table means weight of R F End Ball Valve)

(G) 规则孔(Regular bore); (R) 缩孔Reduce bore. *齿轮箱操作

	SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	M≈ (mm)	W≈ (kg)
CLASS 300Lb	$\frac{1}{2} \times \frac{3}{8}$ (R)	140	151	140	79	140	3.6
	$\frac{1}{2}$	140	151	140	79	140	4.2
	$\frac{3}{4} \times \frac{1}{2}$ (R)	152	165	152	79	140	5
	$\frac{3}{4}$	152	165	152	96	160	5
	$1 \times \frac{3}{4}$ (G)	165	178	165	96	160	5.5
	$1 \times \frac{1}{2}$ (R)	165	178	165	79	140	4
	1	165	178	165	100	160	6
	$1\frac{1}{4}$	178	191	178	102	200	10
	$1\frac{1}{2} \times 1$ (R)	191	203	191	100	160	6.6
	$1\frac{1}{2} \times 1\frac{1}{4}$ (G)	191	203	191	102	200	6.6
	$1\frac{1}{2}$	191	203	191	120	200	3
	$2 \times 1\frac{1}{4}$ (R)	216	232	216	102	200	6.8
	$2 \times 1\frac{1}{2}$ (G)	216	232	216	120	200	7.5
	2	216	232	216	147	250	15.5
	$2\frac{1}{2}$	241	257	241	152	300	30
	3×2 (R)	283	298	283	147	250	17
	$3 \times 2\frac{1}{2}$ (G)	283	298	283	152	300	34
	3	283	298	283	163	350	36
	$4 \times 2\frac{1}{2}$ (R)	305	321	305	152	300	40
	4×3 (G)	305	321	305	163	350	46
	4	305	321	305	210	400	54
	6×3 (R)	403	419	403	163	350	58
	6×4 (G)	403	419	403	210	400	68
	6	403	419	403	366	800	108
	8×4 (R)	502	518	521	210	400	90
	8×6 (G)	502	518	521	366	800	120
	8	502	518	521	440	400*	242
CLASS 600Lb	$\frac{1}{2} \times \frac{3}{8}$ (R)	165	163	165	85	160	4.8
	$\frac{1}{2}$	165	163	165	85	160	5.5
	$\frac{3}{4} \times \frac{1}{2}$ (R)	191	191	191	85	160	7.5
	$\frac{3}{4}$	191	191	191	93	200	8.5
	$1 \times \frac{3}{4}$ (G)	216	216	216	93	200	9.5
	$1 \times \frac{1}{2}$ (R)	216	216	216	85	160	8
	1	216	216	216	99	200	12
	$1\frac{1}{4}$	229	229	229	100	200	18
	$1\frac{1}{2} \times 1$ (R)	241	241	241	99	200	15.5
	$1\frac{1}{2} \times 1\frac{1}{4}$ (G)	241	241	241	100	200	20.5
	$1\frac{1}{2}$	241	241	241	117	200	24
	$2 \times 1\frac{1}{4}$ (R)	292	295	292	100	200	25
	$2 \times 1\frac{1}{2}$ (G)	292	295	292	117	200	33.5
	2	292	295	292	180	350	32.5
	$2\frac{1}{2}$	330	333	330	210	400	54
	3×2 (R)	356	359	356	180	350	40
	$3 \times 2\frac{1}{2}$ (G)	356	359	356	210	400	61
	3	356	359	356	244	700	67
	$4 \times 2\frac{1}{2}$ (R)	432	435	432	210	400	70
	4×3 (G)	432	435	432	244	700	75.5
	4	432	435	432	265	800	114

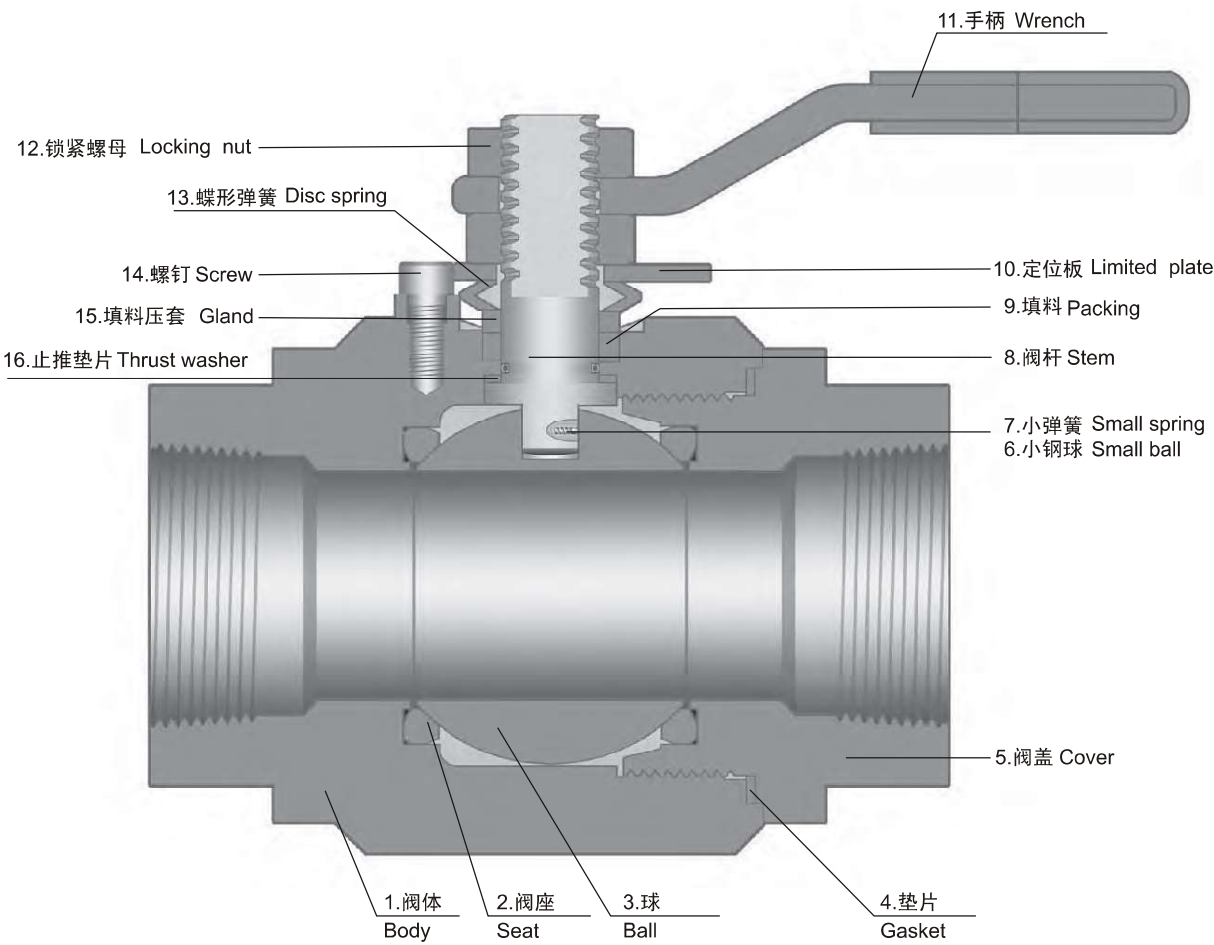
(G) 规则孔(Regular bore); (R) 缩孔Reduce bore. ■W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

*齿轮箱操作

FORGED STEEL BALL VALVE 锻钢球阀

二片式螺纹连接丝口球阀主要结构图形

2PC Threaded Ball Valve Major Features

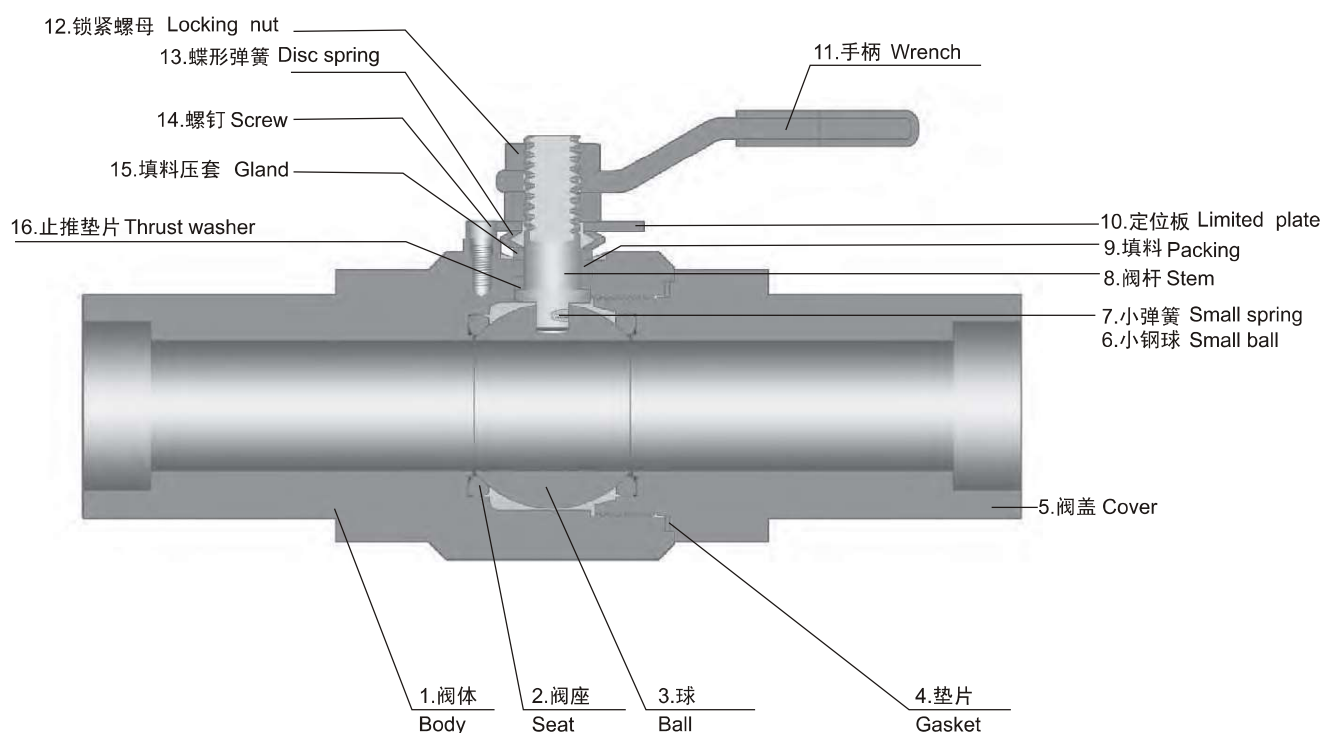


主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	ASME B16.34(BS5351),API 608,MSS-SP-72
结构长度尺寸 (End to End Dimension):	按厂标(Manufacturer's specification)
螺纹端连接尺寸 (Threaded ends Dimension):	ASME B1.20.1
承插焊端连接尺寸 (socket welded ends Dimension):	ASME B16.11
检查和试验 (Test and Inspection):	API 598
防火设计(Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆(Anti-Static Design&Anti Blow-Out Stem)	

二片式螺纹连接承插焊球阀主要结构图形

2PC Socket Welded Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	ASME B16.34(BS5351),API 608,MSS-SP-72
结构长度尺寸 (End to End Dimension):	按厂标(Manufacturer's specification)
螺纹端连接尺寸 (Threaded ends Dimension):	ASME B1.20.1
承插焊端连接尺寸 (socket welded ends Dimension):	ASME B16.11
检查和试验 (Test and Inspection):	API 598
防火设计(Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆(Anti-Static Design&Anti Blow-Out Stem)	

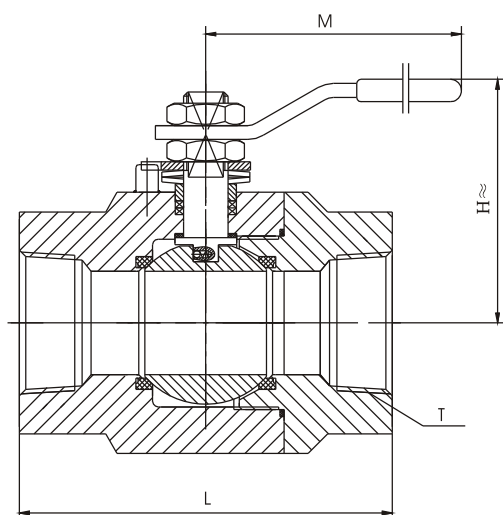
FORGED STEEL BALL VALVE 锻钢球阀

主要材料 Main Material

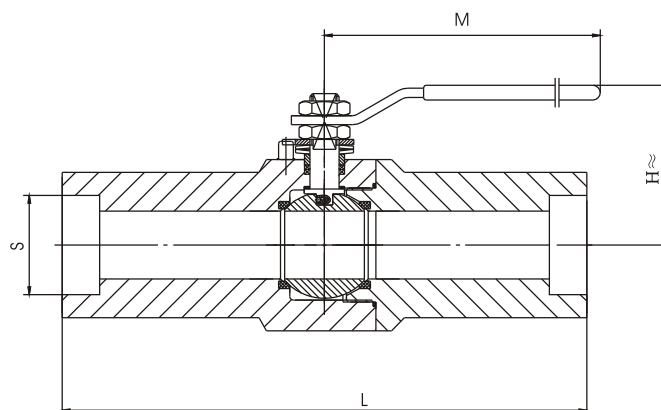
序号 No.	名称 PART NAME	材料 MATERIAL
1	阀体 Body	A105,A182-F304、F316、F304L、F316L、F321、F51、F53
2	阀座 Seat	PTFE、RPTFE、PEEK、PPL、POM、KARBATE、NYLON、MOLON、DEVLON
3	球 Ball	A105+ENP, A182-F6、F304、F316、F304L、F316L、F321、F51、F53
4	垫片 Gasket	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND,PTFE
5	阀盖 Cover	A105,A182-F304、F316、F304L、F316L、F321、F51、F53
6	小钢球 Small ball	SS304,SS316
7	小弹簧 Small spring	SS304,SS316
8	阀杆 Stem	A182-F6、F304、F316、F304L、F316L、F321、F51、F53
9	填料 Packing	PTFE,GRAPHITE
10	定位板 Limited plate	1025, STAINLESS STEEL
11	手柄 Wrench	STAINLESS STEEL
12	锁紧螺母 Locking nut	1045、STAINLESS STEEL
13	蝶形弹簧 Disc spring	AISI 1566, STAINLESS STEEL
14	螺钉 Screw	1045, STAINLESS STEEL
15	填料压套 Gland	A276-410、304、304L、316、316L、321、F51、F53
16	止推垫片 Thrust washer	PTFE、RPTFE、STAINLESS STEEL+N

二片式螺纹和承插焊球阀结构形式及尺寸表

2PC Threaded and Socket Welded Ball Valve Construction and Dimension



QF201121M1~QF201121M5



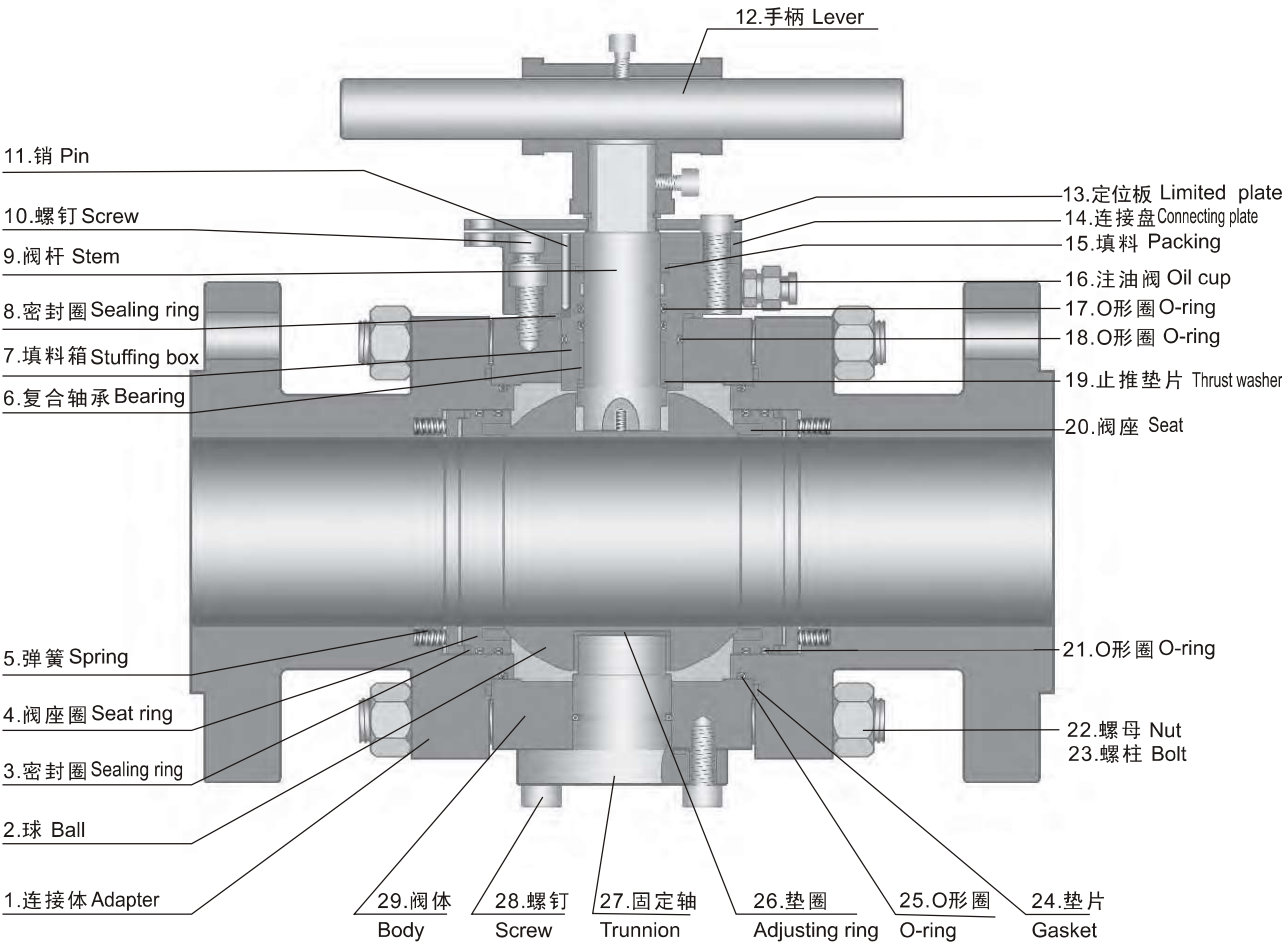
QF207121M1~QF207121M5

CLASS 150Lb~ CLASS 1500Lb

SIZE (in)	L (mm)		T (mm)	S (mm)	H ≈ (mm)	M ≈ (mm)	W ≈ (kg)	
	NPT	SW					NPT	SW
3/8	65	170	3/8	17.6	34	136	0.7	0.9
1/2	75	170	1/2	21.8	48	136	0.7	0.9
3/4	90	176	3/4	27.1	60	182	1	1.2
1	105	196	1	33.8	64	182	1.5	2.5
1 1/2	130	226	1 1/2	48.7	83	222	3.5	7.0
2	160	262	2	61.1	95	277	5.0	10

FORGED STEEL BALL VALVE 锻钢球阀

三片式固定球阀主要结构图形 3PC Trunnion Ball Valve Major Features

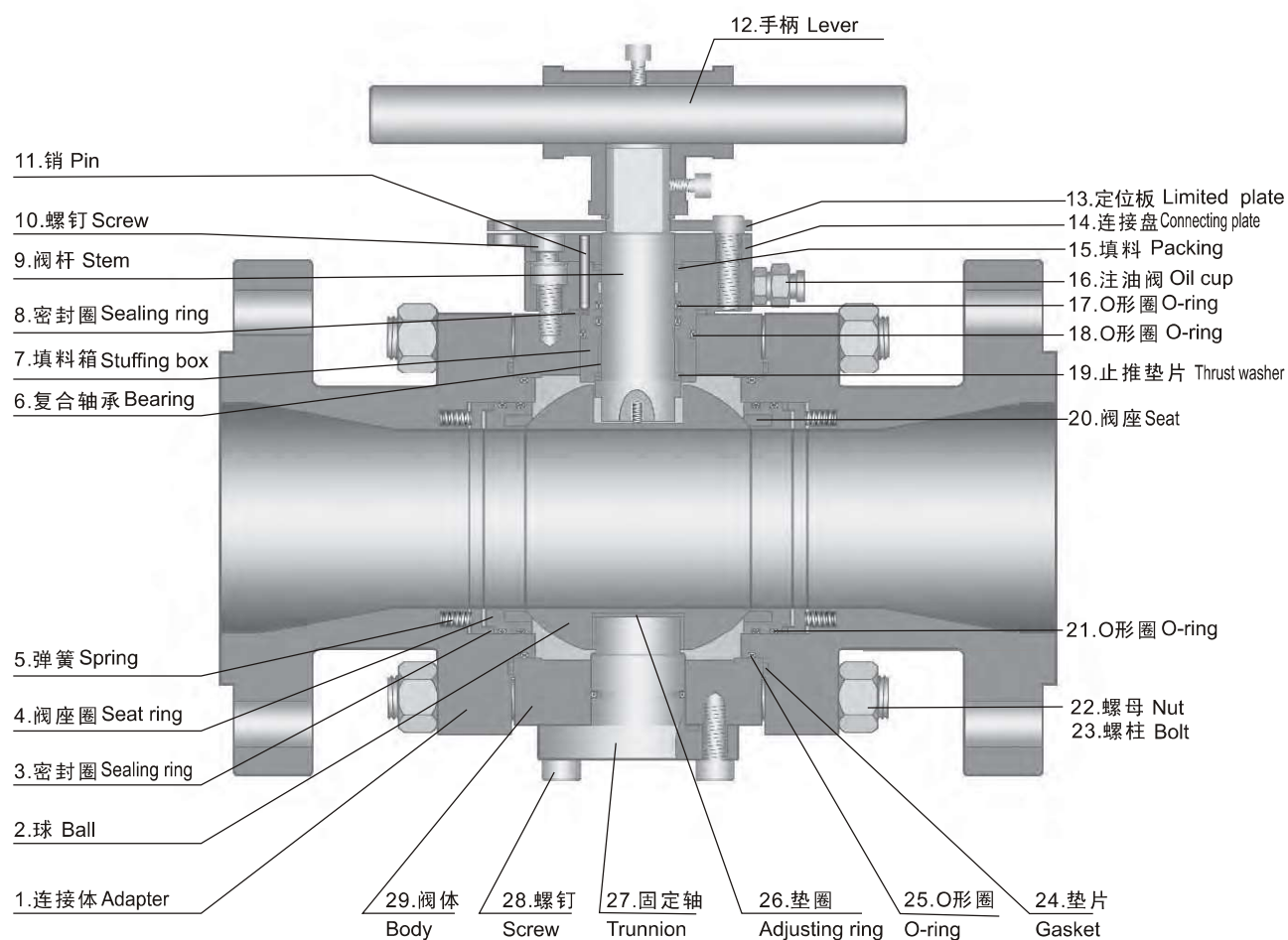


主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72
结构长度尺寸 (End to End Dimension):	API 6D, ASME B16.10
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D, API 598
防火设计 (Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)	

三片式缩口固定球阀主要结构图形

3PC Reduced Port Trunnion Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72
结构长度尺寸 (End to End Dimension):	API 6D, ASME B16.10
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D, API 598
防火设计 (Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)	

FORGED STEEL BALL VALVE 锻钢球阀

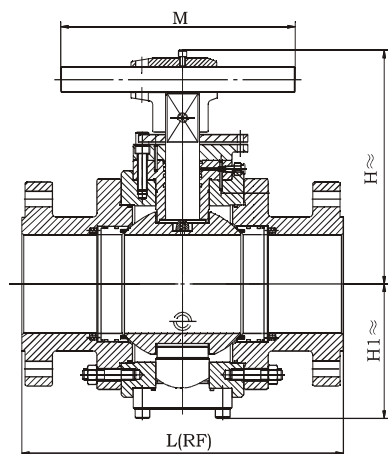
主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	连接体 Adapter	A105, A350-LF2, A182-F304, F316, F304L, F316L, F321, F51, F53
2	球 Ball	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53
3	密封圈 Sealing ring	FLEXIBLE GRAPHITE
4	阀座圈 Seat ring	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53
5	弹簧 Spring	SS304, INCONEL, 1566+ENP
6	复合轴承 Bearing	1045+RPTFE, SS304+RPTFE, SS316+RPTFE
7	填料箱 Stuffing box	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53
8	密封圈 Sealing ring	SS304, SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
9	阀杆 Stem	1045+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, 4140+ENP, 17-4PH
10	螺钉 Screw	1035, STAINLESS STEEL
11	销 Pin	AISI 1566, STAINLESS STEEL
12	手柄 Lever	A216-WCB+1020
13	定位板 Limited plate	1025, STAINLESS STEEL
14	连接盘 Connecting plate	1025, A216 WCB, A351 CF8
15	填料 Packing	FLEXIBLE GRAPHITE
16	注油阀 Oil cup	1025, SS304
17	O形圈 O-ring	VITON
18	O形圈 O-ring	NBR, VITON
19	止推垫片 Thrust washer	PTFE, RPTFE, STAINLESS STEEL+N
20	阀座 Seat	PTFE, RPTFE, PEEK, PPL, POM, KARBATE, NYLON, MOLON, DEVLON
21	O形圈 O-ring	VITON
22	螺母 Nut	A194-2H, 2HM, 8, 8M
23	螺栓 Bolt	A193-B7, B7M, B8, B8M
24	垫片 Gasket	SS304, SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
25	O形圈 O-ring	NBR, VITON
26	垫圈 Adjusting ring	PTFE, 1045+RTPFE, STAINLESS STEEL+RTPFE
27	固定轴 Trunnion	1045+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, 4140+ENP, 17-4PH
28	螺钉 Screw	1035, STAINLESS STEEL
29	阀体 Body	A105, A350-LF2, A182-F304, F316, F304L, F316L, F321, F51, F53
30	丝堵和放泄阀 Drain valve and plug	1025, SS304, SS316, SS304L, SS316L, SS321, F51, F53

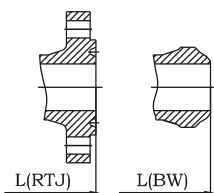
三片式固定球阀结构形式及尺寸表

3 PC Trunnion Ball Valve Construction and Dimension CLASS 150Lb~2500Lb

CLASS 150Lb

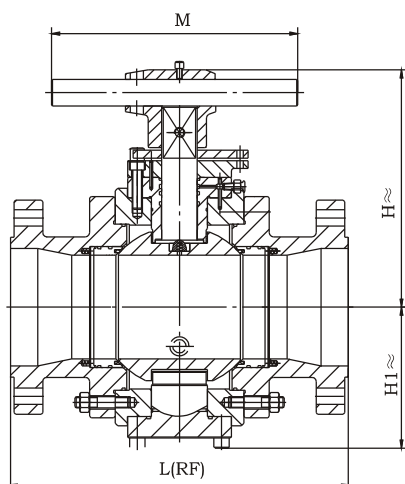


QF204731B II 1~QF204731B II 2

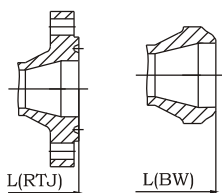


SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	178	191	216	168	83	250	26
3×2 [Ⓒ]	203	216	283	168	83	250	30
2½	191	203	241	180	102	300	42
3×2½ [Ⓒ]	203	216	283	180	102	300	46
4×2½ [Ⓒ]	229	241	305	180	102	300	52
3	203	216	283	202	117	350	50
4×3 [Ⓒ]	229	241	305	202	117	350	60
6×3 [Ⓒ]	394	406	457	202	117	350	80
4	229	241	305	228	141	450	88
6×4 [Ⓒ]	394	406	457	228	141	450	100
8×4 [Ⓒ]	457	470	521	228	141	450	128

CLASS 300Lb



QG204731B II 1~QG204731B II 2
QR204731B II 1~QR204731B II 2



SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	216	232	216	168	95	250	28
3×2 [Ⓒ]	283	298	283	168	95	250	35
2½	241	257	241	202	107	300	52
3×2½ [Ⓒ]	283	298	283	202	107	300	-
4×2½ [Ⓒ]	305	321	305	202	107	300	-
3	283	298	283	222	122	350	54.5
4×3 [Ⓒ]	305	321	305	222	122	350	71
6×3 [Ⓒ]	403	419	403	222	122	350	-
4	305	321	305	238	148	450	98
6×4 [Ⓒ]	403	419	403	238	148	450	119
8×4 [Ⓒ]	502	518	521	238	148	450	-

Ⓒ 规则孔(Regular bore); Ⓓ 缩孔Reduce bore.

■ W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

FORGED STEEL BALL VALVE 锻钢球阀

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	292	295	292	195	100	500	33
3×2 [®]	356	359	356	195	100	500	42
2½	330	333	330	210	115	600	39
3×2½ [®]	356	359	356	210	115	600	45
4×2½ [®]	432	435	432	210	115	600	69
3	356	359	356	247	126	700	68
4×3 [®]	432	435	432	247	126	700	85
6×3 [®]	559	562	559	247	126	700	128
4	432	435	432	275	154	900	118
6×4 [®]	559	562	559	275	154	900	146
8×4 [®]	660	664	660	275	154	900	178

CLASS 900Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	368	371	368	217	118.5	500	47
3×2 [®]	381	384	381	217	118.5	500	52
2½	419	422	419	241	133	600	61
3×2½ [®]	381	384	381	241	133	600	66
4×2½ [®]	457	460	457	241	133	600	80
3	381	384	381	259	141	900	82
4×3 [®]	457	460	457	259	141	900	97
6×3 [®]	610	613	610	259	141	900	158
4	457	460	457	297	167	1000	145
6×4 [®]	610	613	610	297	167	1000	203
8×4 [®]	737	740	737	297	167	1000	292

CLASS 1500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	368	371	368	237	122	800	50
3×2 [®]	470	473	470	237	122	800	71
2½	419	422	419	261	148	900	75
3×2½ [®]	470	473	470	261	148	900	90
4×2½ [®]	546	549	546	261	148	900	109
3	470	473	470	269	163	1000	117
4×3 [®]	546	549	546	269	163	1000	124
6×3 [®]	705	711	705	269	163	1000	221
4	546	549	546	297	173	1000	185
6×4 [®]	705	711	705	297	173	1000	296
8×4 [®]	832	841	832	297	173	1000	360

CLASS 2500Lb

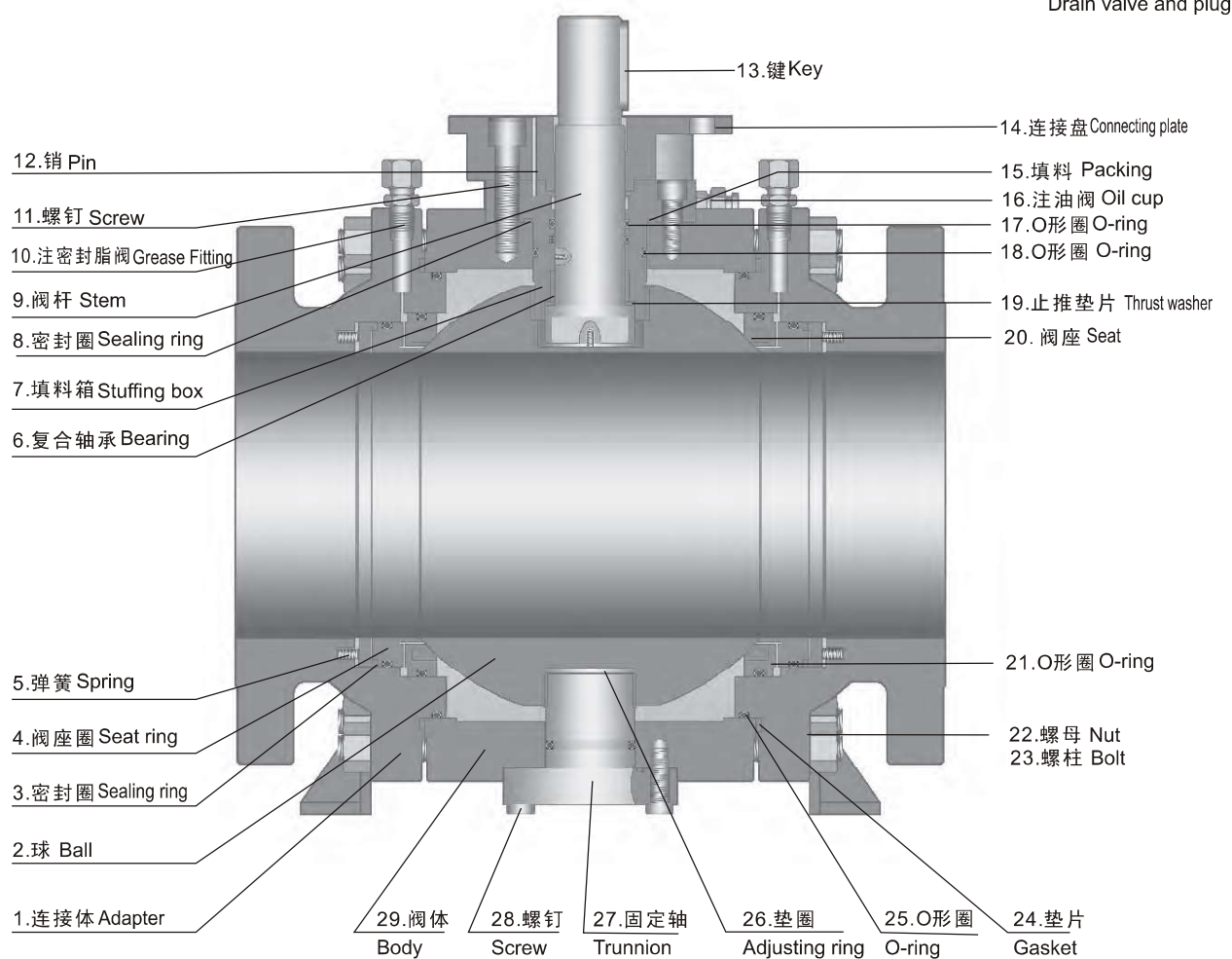
SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	451	454	451	240	129	1000	108
3×2 [®]	578	584	578	240	129	1000	185
2½	508	514	508	270	135	1000	135
3×2½ [®]	578	584	578	270	135	1000	198
4×2½ [®]	673	683	673	270	135	1000	217
3	578	584	578	300	159	1000	215
4×3 [®]	673	683	673	300	159	1000	275
6×3 [®]	914	927	914	300	159	1000	420
4	673	683	673	350	204	—	389
6×4 [®]	914	927	914	350	204	—	526
8×4 [®]	1022	1038	1022	350	204	—	654

® 规则孔(Regular bore); ® 缩孔(Reduce bore).

■ W 指 RF 法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

三片式固定球阀主要结构图形

3PC Trunnion Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34 (BS5351), API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

API 6D, ASME B16.10

法兰连接尺寸 (Flange Connection Dimension):

ASME B16.5, NPS ≥ 26" PER as ASME B16.47

对焊端尺寸 (BW Connection Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598

防火设计 (Fire-Safe Design):

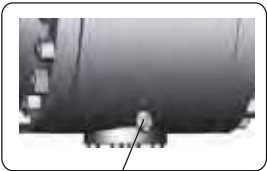
API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

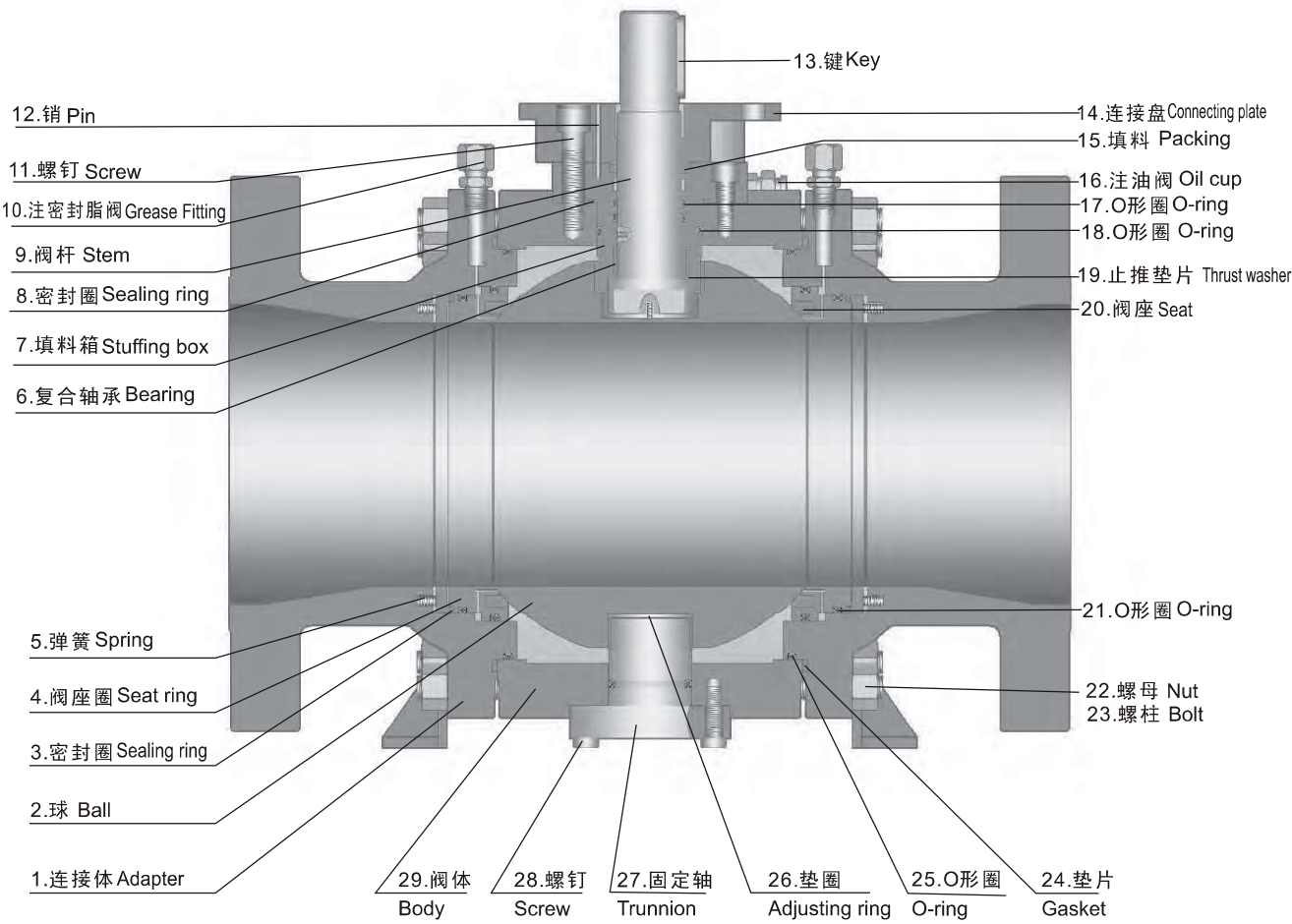
FORGED STEEL BALL VALVE 锻钢球阀

三片式缩口固定球阀主要结构图形

3PC Reduced Port Trunnion Ball Valve Major Features



30.丝堵和放泄阀
Drain valve and plug



主要参数 Main Parameter Specification

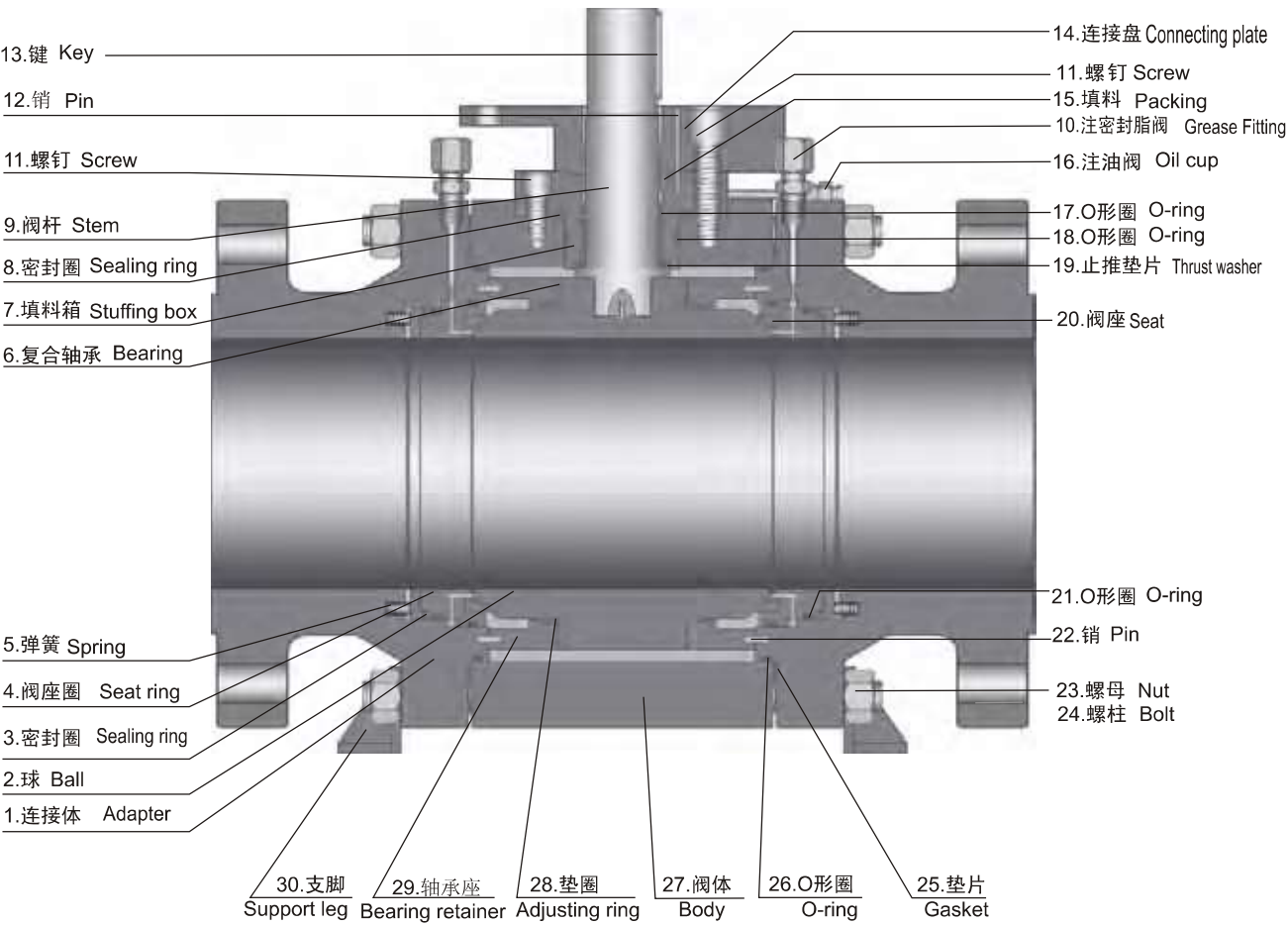
设计和制造 (Design and Manufacture):	API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72
结构长度尺寸 (End to End Dimension):	API 6D, ASME B16.10
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5, NPS ≥ 26" PER as ASME B16.47
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D, API 598
防火设计 (Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)	

主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	连接体 Adapter	A105, A350-LF2, A182-F304, F316, F304L, F316L, F321, F51, F53
2	球 Ball	A105+ENP, A350-LF2+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53
3	密封圈 Sealing ring	FLEXIBLE GRAPHITE
4	阀座圈 Seat ring	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53
5	弹簧 Spring	SS304, INCONEL, 1566+Enp
6	复合轴承 Bearing	1045+RPTFE, SS304+RPTFE, SS316+RPTFE
7	填料箱 Stuffing box	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53
8	密封圈 Sealing ring	SS304, SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
9	阀杆 Stem	1045+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, 4140+ENP, 17-4PH
10	注密封脂阀 Grease fitting	1025, SS304, SS316, SS304L, SS316L, SS321, F51, F53
11	螺钉 Screw	1035, STAINLESS STEEL
12	销 Pin	AISI 1566, STAINLESS STEEL
13	键 Key	1045
14	连接盘 Connecting plate	1025, A216 WCB, A351 CF8
15	填料 Packing	FLEXIBLE GRAPHITE
16	注油阀 Oil cup	1025, SS304
17	O形圈 O-ring	VITON
18	O形圈 O-ring	NBR, VITON
19	止推垫片 Thrust washer	PTFE, RPTFE, STAINLESS STEEL+N
20	阀座 Seat	PTFE, RPTFE, PEEK, PPL, POM, KARBATE, NYLON, MOLON, DEVLON
21	O形圈 O-ring	VITON
22	螺母 Nut	A194-2H, 2HM, 8, 8M
23	螺柱 Bolt	A193-B7, B7M, B8, B8M
24	垫片 Gasket	SS304, SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
25	O形圈 O-ring	NBR, VITON
26	垫圈 Adjusting ring	PTFE, 1045+RTPFE, STAINLESS STEEL+RTPFE
27	固定轴 Trunnion	1045+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, 4140+ENP, 17-4PH
28	螺钉 Screw	1035, STAINLESS STEEL
29	阀体 Body	A105, A350-LF2, A182-F304, F316, F304L, F316L, F321, F51, F53
30	丝堵和放泄阀 Drain valve and plug	1025, SS304, SS316, SS304L, SS316L, SS321, F51, F53

FORGED STEEL BALL VALVE 锻钢球阀

三片式固定球阀主要结构图形 3PC Trunnion Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D,ASME B16.34(BS5351),API 608,MSS-SP-72
结构长度尺寸 (End to End Dimension):	API 6D,ASME B16.10
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5,NPS≥26" PER as ASME B16.47
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D,API 598
防火设计(Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆(Anti-Static Design&Anti Blow-Out Stem)	

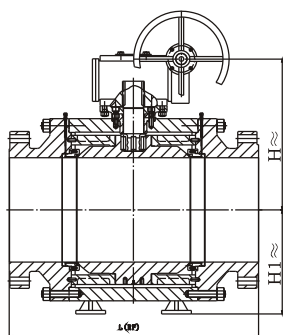
主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	连接体 Adapter	A105, A350-LF2, A182-F304, F316, F304L, F316L, F321, F51, F53
2	球 Ball	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53
3	密封圈 Sealing ring	FLEXIBLE GRAPHITE
4	阀座圈 Seat ring	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53
5	弹簧 Spring	SS304, INCONEL, 1566+Enp
6	复合轴承 Bearing	1045+RPTFE, SS304+RPTFE, SS316+RPTFE
7	填料箱 Stuffing box	A105+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53
8	密封圈 Sealing ring	SS304, SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
9	阀杆 Stem	1045+ENP, A182-F6, F304, F316, F304L, F316L, F321, F51, F53, 4140+ENP, 17-4PH
10	注密封脂阀 Grease fitting	1025, SS304, SS316, SS304L, SS316L, SS321, F51, F53
11	螺钉 Screw	1035, STAINLESS STEEL
12	销 Pin	AISI 1566, Stainless Steel
13	键 Key	1045
14	连接盘 Connecting plate	1025, A216 WCB, A351 CF8
15	填料 Packing	FLEXIBLE GRAPHITE
16	注油阀 Oil cup	1025, SS304
17	O形圈 O-ring	VITON
18	O形圈 O-ring	NBR, VITON
19	止推垫片 Thrust washer	PTFE, RPTFE, STAINLESS STEEL+N
20	阀座 Seat	PTFE, RPTFE, PEEK, PPL, POM, KARBATE, NYLON, MOLON, DEVLON
21	O形圈 O-ring	VITON
22	销 Pin	1045, STAINLESS STEEL
23	螺母 Nut	A194-2H, 2HM, 8, 8M
24	螺栓 Bolt	A193-B7, B7M, B8, B8M
25	垫片 Gasket	SS304, SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
26	O形圈 O-ring	NBR, VITON
27	阀体 Body	A105, A350-LF2, A182-F304, F316, F304L, F316L, F321, F51, F53
28	垫圈 Adjusting ring	PTFE, 1045+RTPFE, STAINLESS STEEL+RTPFE
29	轴承座 Bearing retainer	1025, A216-WCB, STAINLESS STEEL
30	支脚 Support Leg	1025
31	丝堵和放泄阀 Drain valve and plug	1025, SS304, SS316, SS304L, SS316L, SS321, F51, F53

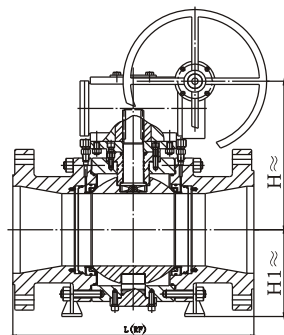
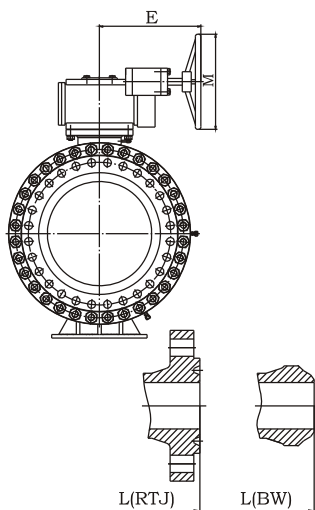
FORGED STEEL BALL VALVE 锻钢球阀

三片式固定球阀结构形式及尺寸表

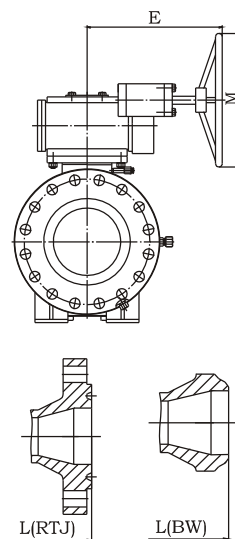
3 PC Trunnion Ball Valve Construction and Dimension CLASS 150Lb~900Lb



QF234731B I 1~QF234731B I 2



QG234731B II 1~QG234731B II 2
QR234731B II 1~QR234731B II 2



CLASS 150Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
6	394	406	457	280	178	300	254	182	172
8×6 ③	457	470	521	280	178	300	254	210	200
10×6 ③	533	546	559	280	178	300	254	-	-
8	457	470	521	305	225	300	254	320	302
10×8 ③	533	546	559	305	225	300	254	355	338
12×8 ③	610	622	635	305	225	300	254	-	-
10	533	546	559	395	257	300	270	515	490
12×10 ③	610	622	635	395	257	300	270	565	538
14×10 ③	686	699	762	395	257	300	270	615	586
16×10 ③	762	775	838	395	257	300	270	-	-
12	610	622	635	428	323	300	320	682	649
14×12 ③	686	699	762	428	323	300	320	723	689
16×12 ③	762	775	838	428	323	300	320	786	749
18×12 ③	864	876	914	428	323	300	320	-	-
14	686	699	762	465	355	400	380	856	815
16×14 ③	762	775	838	465	355	400	380	903	860
18×14 ③	864	876	914	465	355	400	380	-	-
20×14 ③	914	927	991	465	355	400	380	-	-
16	762	775	838	528	398	450	430	1076	1025
18×16 ③	864	876	914	528	398	450	430	1165	1110
20×16 ③	914	927	991	528	398	450	430	1502	1430
18	864	876	914	564	437	500	510	1658	1579
20×18 ③	914	927	991	564	437	500	510	1783	1698

CLASS 150Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
20	914	927	991	577	453	500	510	2041	1944
24×20 ③	1067	1080	1143	577	453	500	510	2508	2389
22	※991	—	※1092	635	499	500	510	2905	2767
24×22 ③	1067	1080	1143	635	499	500	510	-	-
24	1067	1080	1143	817	592	500	510	3284	3120
30×24 ③	1295	—	1397	817	592	500	510	3940	3752
26	1143	—	1245	892	624	550	530	3870	3686
28×26 ③	1245	—	1346	892	624	550	530	-	-
28	1245	—	1346	942	702	812	-	4494	4280
30×28 ③	1295	—	1397	942	702	812	-	-	-
30	1295	—	1397	962	715	812	-	4048	3855
32×30 ③	1372	—	1524	962	715	812	-	-	-
36×30 ③	1524	—	1727	962	715	812	-	4520	4305
32	1372	—	1524	1045	755	812	-	6468	6160
34	1473	—	1626	1095	785	812	-	7592	7230
36	1524	—	1727	1117	836	914	-	9253	8812
40	※1753	—	※1753	1285	900	914	800	12463	11870
42	※1855	—	※2015	1330	935	914	800	13807	13150
48	※2083	—	※2225	1434	1050	914	800	21614	20585
56	※2250	—	※2489	1476	1306	1016	-	34440	32800

※L由厂方与用户协商确定(※ L will be confirmed by the costumer and factory); ③ 规则孔(Regular bore); ④ 缩孔Reduce bore.

■W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
6	403	419	403	285	201	300	254	205	195
8×6	Ⓒ 502	518	521	285	201	300	254	223	212
10×6	Ⓒ 568	584	559	285	201	300	254	-	-
8	502	518	521	342	232	300	270	338	322
10×8	Ⓒ 568	584	559	342	232	300	270	373	355
12×8	Ⓒ 648	664	635	342	232	300	270	-	-
10	568	584	559	390	283	400	342	584	556
12×10	Ⓒ 648	664	635	390	283	400	342	634	604
14×10	Ⓒ 762	778	762	390	283	400	342	696	663
16×10	Ⓒ 838	854	838	390	283	400	342	-	-
12	648	664	635	435	335	400	380	730	695
14×12	Ⓒ 762	778	762	435	335	400	380	767	730
16×12	Ⓒ 838	854	838	435	335	400	380	-	-
18×12	Ⓒ 914	930	914	435	335	400	380	-	-
14	762	778	762	467	360	450	430	940	895
16×14	Ⓒ 838	854	838	467	360	450	430	1076	1025
18×14	Ⓒ 914	930	914	467	360	450	430	-	-
20×14	Ⓒ 991	1010	991	467	360	450	430	-	-
16	838	854	838	538	398	500	510	1570	1495
18×16	Ⓒ 914	930	914	538	398	500	510	1743	1660
20×16	Ⓒ 991	1010	991	538	398	500	510	2058	1960
18	914	930	914	625	437	500	510	1885	1795
20×18	Ⓒ 991	1010	991	625	437	500	510	1979	1885
20	991	1010	991	712	477	500	530	2290	2181
24×20	Ⓒ 1143	1165	1143	712	477	500	530	2785	2652
22	1092	1114	1092	799	495	550	530	2961	2820
24×22	Ⓒ 1143	1165	1143	799	495	550	530	-	-
24	1143	1165	1143	826	585	550	530	3715	3538
30×24	Ⓒ 1397	1422	1397	826	585	550	530	4660	4438
26	1245	1270	1245	862	630	550	530	4484	4270
28×26	Ⓒ 1346	1372	1346	862	630	550	530	-	-
28	1346	1372	1346	893	683	550	530	5077	4835
30×28	Ⓒ 1397	1422	1397	893	683	550	530	-	-
30	1397	1422	1397	968	715	550	530	6531	6220
32×30	Ⓒ 1524	1553	1524	968	715	762	-	-	-
36×30	Ⓒ 1727	1756	1727	968	773	762	-	7854	7480
32	1524	1553	1524	1008	805	812	-	7450	7095
34	1626	1654	1626	1073	875	914	-	8643	8231
36	1727	1756	1727	1100	923	914	-	10185	9700
40	※1850	—	※1930	1245	923	914	-	13487	12845
42	※1900	—	※2015	1345	959	914	-	15233	14508
48	※2170	—	※2225	1490	1108	914	-	23084	21985

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
6	559	562	559	305	198	300	270	258	246
8×6	Ⓒ 660	664	660	305	198	300	270	284	270
10×6	Ⓒ 787	791	787	305	198	300	270	-	-
8	660	664	660	365	252	400	380	440	418
10×8	Ⓒ 787	791	787	365	252	400	380	600	572
12×8	Ⓒ 838	841	838	365	252	400	380	-	-
10	787	791	787	400	299	400	380	592	564
12×10	Ⓒ 838	841	838	400	299	400	342	790	760
14×10	Ⓒ 889	892	889	400	299	400	342	830	790
16×10	Ⓒ 991	994	991	400	299	400	342	-	-
12	838	841	838	449	343	400	380	935	890
14×12	Ⓒ 889	892	889	449	343	400	380	1145	1090
16×12	Ⓒ 991	994	991	449	343	400	380	1207	1150
18×12	Ⓒ 1092	1095	1092	449	343	400	380	-	-
14	889	892	889	507	377	450	430	1192	1135
16×14	Ⓒ 991	994	991	507	377	450	430	1411	1344
18×14	Ⓒ 1092	1095	1092	507	377	450	430	-	-
20×14	Ⓒ 1194	1200	1194	507	377	450	430	-	-
16	991	994	991	543	416	550	510	1818	1731
18×16	Ⓒ 1092	1095	1092	543	416	550	510	1991	1896
20×16	Ⓒ 1194	1200	1194	543	416	550	510	2090	1990
18	1092	1095	1092	623	455	500	510	2152	2049
20×18	Ⓒ 1194	1200	1194	623	455	500	510	2277	2169
20	1194	1200	1194	823	522	550	530	2730	2600
24×20	Ⓒ 1397	1407	1397	823	522	550	530	3318	3160
22	1295	1305	1295	845	592	812	-	4019	3828
24×22	Ⓒ 1397	1407	1397	845	592	812	-	-	-
24	1397	1407	1397	866	615	812	-	4579	4361
30×24	Ⓒ 1651	1664	1651	866	615	812	-	5554	5290
26	1448	1461	1448	924	630	812	-	5591	5325
28×26	Ⓒ 1549	1562	1549	924	630	812	-	-	-
28	1549	1562	1549	956	700	812	-	6757	6435
30×28	Ⓒ 1651	1664	1651	956	700	812	-	-	-
30	1651	1664	1651	1038	726	914	-	7570	7210
32×30	Ⓒ 1778	1794	1778	1038	726	914	-	-	-
36×30	Ⓒ 2083	2099	2083	1038	726	914	-	9266	8825
32	1778	1794	1778	1218	788	914	-	9067	8635
34	1930	1946	1930	1230	815	914	-	9723	9260
36	2083	2099	2083	1269	875	914	-	12243	11600
40	※2080	-	※2170	1342	945	914	-	16779	15980
42	※2175	-	-	1520	989	1016	-	19740	18800
48	※2435	-	-	1655	1120	1016	-	30266	28825

※L由厂方与用户协商确定(※ L will be confirmed by the costumer and factory); Ⓒ 规则孔(Regular bore); Ⓓ 缩孔(Reduce bore).

■W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

FORGED STEEL BALL VALVE 锻钢球阀

CLASS 900Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
6	610	613	610	360	250	400	380	352	335
8×6 	737	740	737	360	250	400	380	462	440
10×6 	838	841	838	360	250	400	380	-	-
8	737	740	737	394	280	450	430	584	556
10×8 	838	841	838	394	280	450	430	719	685
12×8 	965	968	965	394	280	450	430	-	-
10	838	841	838	502	325	500	510	982	935
12×10 	965	968	965	502	325	500	510	1066	1015
14×10 	1029	1038	1029	502	325	500	510	1216	1158
16×10 	1130	1140	1130	502	325	500	510	-	-
12	965	968	965	572	380	500	510	1365	1300
14×12 	1029	1038	1029	572	380	500	510	1638	1560
16×12 	1130	1140	1130	572	380	500	510	1722	1640
18×12 	1219	1232	1219	572	380	500	510	-	-
14	1029	1038	1029	675	395	550	530	1727	1645
16×14 	1130	1140	1130	675	395	550	530	1927	1835
18×14 	1219	1232	1219	675	395	550	530	-	-
20×14 	1321	1334	1321	675	395	550	530	-	-
16	1130	1140	1130	627	406	550	530	2351	2239
18×16 	1219	1232	1219	627	406	550	530	2533	2412
20×16 	1321	1334	1321	627	406	550	530	2933	2793
18	1219	1232	1219	731	418	550	530	3056	2910
20×18 	1321	1334	1321	731	418	550	530	3234	3080
20	1321	1334	1321	820	561	550	530	3919	3732
24×20 	1549	1568	1549	820	561	550	530	4867	4635
24	1549	1568	1549	853	634	812	-	6615	6300
30×24 	※1880	※1902	※1880	853	634	914	-	8998	8570
26	※1651	※1674	※1651	909	725	914	-	7949	7570
28×26 	※1753	※1775	※1753	909	725	914	-	-	-
28	※1753	※1775	※1753	980	765	914	-	9542	9088
30×28 	※1880	※1902	※1880	980	765	914	-	-	-
30	※1880	※1902	※1880	1095	810	914	-	11340	10800
32×30 	※2032	※2054	※2032	1095	810	914	-	-	-
36×30 	※2286	※2315	※2286	1095	810	914	-	13818	13160
32	※2032	※2054	※2032	1270	840	914	-	12584	11985
34	※2159	※2188	※2159	1310	860	914	-	18233	17365
36	※2286	※2315	※2286	1445	893	914	-	20497	19521

※L由厂方与用户协商确定(※ L will be confirmed by the costumer and factory);

 规则孔(Regular bore);  缩孔Reduce bore.

■W 指 RF 法兰球阀重量(The W in the table means weight of R F End Ball Valve)

CLASS 1500Lb

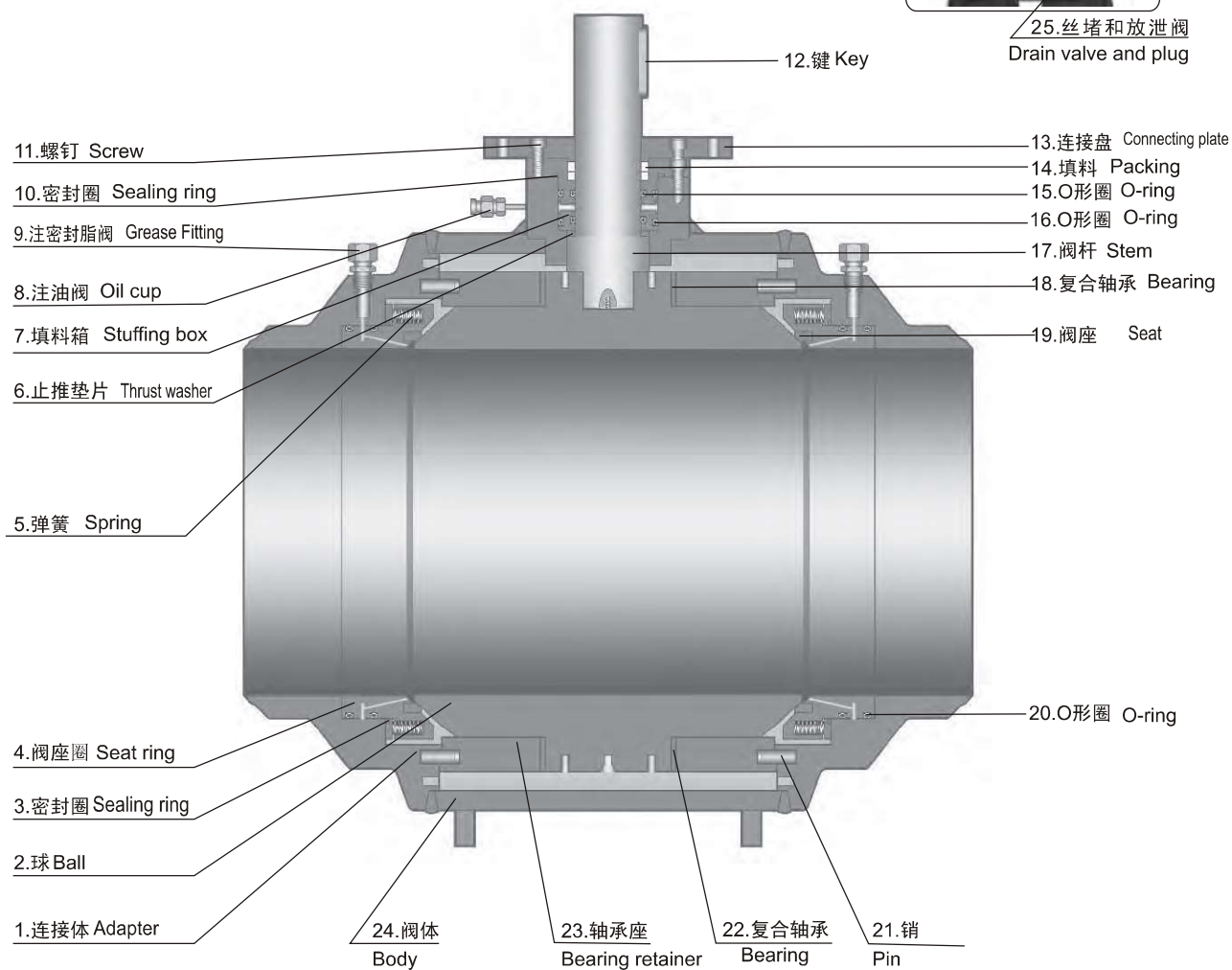
SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
6	705	771	705	305	211	400	380	512	488
8×6 	832	841	832	305	211	400	380	625	595
10×6 	991	1000	991	305	211	400	380	-	-
8	832	841	832	365	274	450	430	835	795
10×8 	991	1000	991	365	274	450	430	1037	988
12×8 	1130	1146	1130	365	274	450	430	-	-
10	991	1000	991	440	310	500	510	1470	1400
12×10 	1130	1146	1130	440	310	500	510	1580	1505
14×10 	1257	1276	1257	440	310	500	510	2251	2144
16×10 	1384	1407	1384	440	310	500	510	-	-
12	1130	1146	1130	596	485	500	510	1851	1763
14×12 	1257	1276	1257	596	485	500	510	2600	2476
16×12 	1384	1407	1384	596	485	500	510	3030	2886
18×12 	※1537	※1559	※1537	596	485	550	530	-	-
14	1257	1276	1257	661	510	550	530	2841	2706
16×14 	1384	1407	1384	661	510	550	530	3360	3198
18×14 	※1537	※1559	※1537	661	510	550	530	-	-
20×14 	※1664	※1686	※1664	661	510	550	530	-	-
16	1384	1406	1384	700	540	550	530	4373	4165
18×16 	※1537	※1559	※1537	700	540	550	530	5554	5290
20×16 	※1664	※1686	※1664	700	540	550	530	5906	5625
18	※1537	※1559	※1537	783	585	812	-	6332	6030
20×18 	※1664	※1686	※1664	783	585	812	-	7521	7163
20	※1664	※1686	※1664	880	635	914	-	9513	9060
24×20 	※2043	※2071	※2043	880	635	914	-	10922	10402
24	※2043	※2071	※2043	1285	720	914	-	15183	14460

CLASS 2500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W I ≈ (Kg)	W II ≈ (kg)
6	914	927	914	345	250	450	430	981	934
8×6 	1022	1038	1022	345	250	450	430	1176	1120
10×6 	1270	1292	1270	345	250	450	430	-	-
8	1022	1038	1022	402	340	500	510	1497	1426
10×8 	1270	1292	1270	402	340	500	510	2289	2180
12×8 	1422	1445	1422	402	340	500	510	-	-
10	1270	1292	1270	500	411	500	510	2527	2407
12×10 	1422	1445	1422	500	411	500	510	3516	3350
12	1422	1445	1422	650	480	550	530	3967	3778

全焊固定球阀主要结构图形

Trunnion Full Welded Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

API 6D, ASME B16.10

法兰连接尺寸 (Flange Connection Dimension):

ASME B16.5, NPS ≥ 26" PER as ASME B16.47

对焊端尺寸 (BW Connection Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598

防火设计 (Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

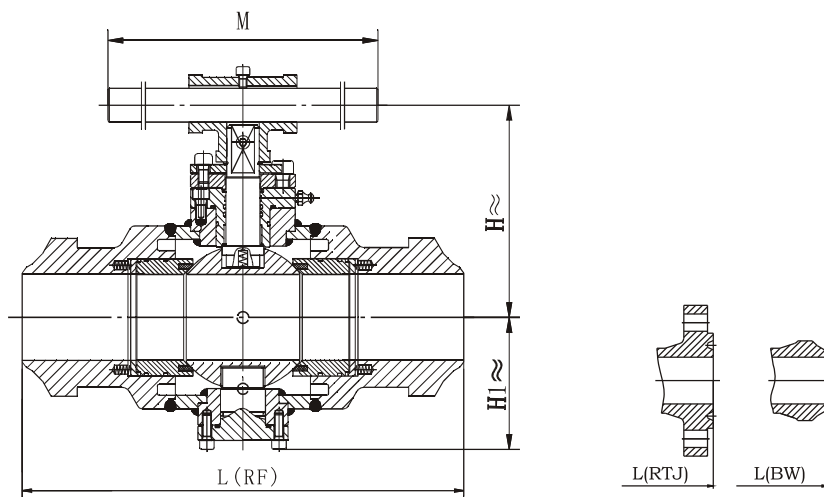
FORGED STEEL BALL VALVE 锻钢球阀

主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	连接体 Adapter	A105, A350-LF2, A182-F304, F316, F304L, F316L, F321, F51、F53,A537
2	球 Ball	A105+ENP, A350-LF2+ENP,A182-F6、F304、F316、F304L、F316L、F321、F51、F53
3	密封圈 Sealing ring	FLEXIBLE GRAPHITE
4	阀座圈 Seat ring	A105+ENP, A182-F6、F304、F316、F304L、F316L、F321、F51、F53
5	弹簧 Spring	SS304、INCONEL、1566+Enp
6	止推垫片 Thrust washer	PTFE、RPTFE、STAINLESS STEEL+N
7	填料箱 Stuffing box	A105+ENP, A182-F6、F304、F316、F304L、F316L、F321、F51、F53
8	注油阀 Oil cup	1025、SS304
9	注密封脂阀 Grease Fitting	1025、SS304、SS316、SS304L、SS316L、SS321、F51、F53
10	密封圈 Sealing ring	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
11	螺钉 Screw	1035、STAINLESS STEEL
12	键 Key	1045
13	连接盘 Connecting plate	1025、A216 WCB、A351 CF8
14	填料 Packing	FLEXIBLE GRAPHITE
15	O形圈 O-ring	VITON
16	O形圈 O-ring	NBR,VITON
17	阀杆 Stem	1045+ENP, A182-F6、F304、F316、F304L、F316L、F321、F51、F53, 4140+ENP 17-4PH
18	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
19	阀座 Seat	PTFE、RPTFE、PEEK、PPL、POM、KARBATE、NYLON、MOLON、DEVLON
20	O形圈 O-ring	VITON
21	销 Pin	1045,STAINLESS STEEL
22	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
23	轴承座 Bearing retainer	A105、A216-WCB、STAINLESS STEEL
24	阀体 Body	A105, A350-LF2, A182-F304, F316, F304L, F316L, F321, F51、F53
25	丝堵和放泄阀 Drain valve and plug	1025、SS304、SS316、SS304L、SS316L、SS321、F51、F53

全焊固定球阀结构形式及尺寸表

Trunnion Full Welded Ball Valve Construction and Dimension CLASS 150Lb~2500Lb



QF204761W I 1~QF204761W I 2

CLASS 150Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	178	191	216	143	83	250	20
2½	191	203	241	180	102	300	22
3×2 (R)	203	216	283	143	83	250	22
3	203	216	283	232	117	350	35
4×3 (G)	229	241	305	232	117	350	35
4	229	241	305	243	125	450	55
6×4 (G)	394	406	457	243	125	450	68

CLASS 900Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	368	371	368	217	118.5	500	42
2½	419	422	419	241	129	600	49
3×2 (R)	381	384	381	217	118.5	500	53
3	381	384	381	259	141	900	65
4×3 (G)	457	460	457	259	141	900	80
4	457	460	457	297	167	1000	103
6×4 (G)	610	613	610	297	167	1000	154

CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	216	232	216	158	87	250	23
2½	241	257	241	200	107	300	25
3×2 (R)	283	298	283	158	87	250	28
3	283	298	283	220	122	350	36
4×3 (G)	305	321	305	220	122	350	50
4	305	321	305	282	148	450	70
6×4 (G)	403	419	403	282	148	450	90

CLASS 1500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	368	371	368	237	109	800	48
2½	419	422	419	261	130	900	58
3×2 (R)	470	473	470	237	109	800	62
3	470	473	470	269	154	1000	90
4×3 (G)	546	549	546	269	154	1000	102
4	546	549	546	297	190	1000	155
6×4 (G)	705	711	705	297	190	1000	232

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	292	295	292	195	100	500	25
2½	330	333	330	212	115	600	30
3×2 (R)	356	359	356	195	100	500	35
3	356	359	356	247	126	700	54
4×3 (G)	432	435	432	247	126	700	75
4	432	435	432	275	154	900	100
6×4 (G)	559	562	559	275	154	900	114

CLASS 2500Lb

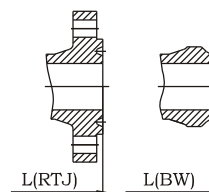
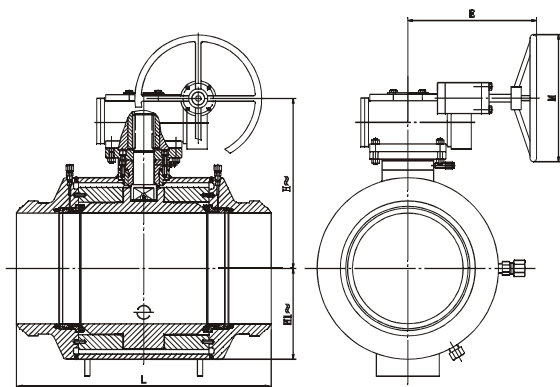
SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	W≈ (kg)
2	451	454	451	240	115	1000	92
2½	508	514	508	270	130	1000	115
3×2 (R)	578	584	578	240	115	1000	150
3	578	584	578	300	159	1000	175
4×3 (G)	673	683	673	300	159	1000	220
4	673	683	673	350	195	-	272
6×4 (G)	914	927	914	350	195	-	341

(G) 规则孔(Regular bore); (R) 缩孔Reduce bore. ■W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

FORGED STEEL BALL VALVE 锻钢球阀

全焊固定球阀结构形式及尺寸表

Trunnion Full Welded Ball Valve Construction and Dimension CLASS 150Lb~2500Lb



QF234761W I 1~QF234761W I 2 CLASS 150Lb

CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
6	394	406	457	280	178	300	254	173
8×6	④ 457	470	521	280	178	300	254	195
8	457	470	521	305	225	300	254	200
10×8	④ 533	546	559	305	225	300	254	238
10	533	546	559	395	257	300	270	262
12×10	④ 610	622	635	395	257	300	270	380
12	610	622	635	428	323	300	370	414
14×12	④ 686	699	762	428	323	300	370	551
14	686	699	762	465	355	400	380	590
16×14	④ 762	775	838	465	355	400	380	731
16	762	775	838	528	398	450	430	896
18×16	④ 864	876	914	528	398	450	430	945
18	864	876	914	564	437	500	510	1200
20×18	④ 914	927	991	564	437	500	510	1443
20	914	927	991	577	453	500	510	1550
24×20	④ 1067	1080	1143	577	453	500	510	2030
22	※991	-	※1092	365	499	500	510	2052
24	1067	1080	1143	667	536	500	510	2592
30×24	④ 1295	-	1397	667	536	500	510	-
26	1143	-	1245	705	564	550	530	3193
28	1245	-	1346	754	600	550	530	3860
30	1295	-	1397	806	640	762	-	4398
36×30	④ 1524	-	1727	806	640	762	-	5055
32	1372	-	1524	848	698	812	-	5218
34	1473	-	1626	883	750	914	-	6210
36	1524	-	1727	1001	818	914	-	7490
40	※1753	-	※1753	1245	880	914	-	10089

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
6	403	419	403	285	201	300	254	195
8×6	④ 502	518	521	285	201	300	254	201
8	502	518	521	368	232	300	270	213
10×8	④ 568	584	559	368	232	300	270	275
10	568	584	559	451	283	400	380	292
12×10	④ 648	664	635	451	283	400	380	350
12	648	664	635	570	335	400	380	390
14×12	④ 762	778	762	570	335	400	380	580
14	762	778	762	600	377	450	430	613
16×14	④ 838	854	838	600	377	450	430	820
16	838	854	838	638	396	500	510	903
18×16	④ 914	930	914	638	396	500	510	1145
18	914	930	914	750	437	500	510	1297
20×18	④ 991	1010	991	750	437	500	510	1413
20	991	1010	991	612	477	500	510	1640
24×20	④ 1143	1165	1143	612	477	500	510	1989
22	1092	1114	1092	656	575	550	530	2187
24	1143	1165	1143	694	611	550	530	2736
30×24	④ 1397	1422	1397	694	611	550	530	3328
26	1245	1270	1245	743	660	550	530	3388
28	1346	1372	1346	777	700	550	530	4050
30	1397	1422	1397	830	740	762	-	4704
36×30	④ 1727	1756	1727	830	740	762	-	5610
32	1524	1553	1524	875	785	812	-	5506
34	1626	1654	1626	910	832	914	-	6698
36	1727	1756	1727	1100	889	914	-	7275
40	※1850	-	※1930	1256	923	914	-	9633

※L由厂方与用户协商确定(※ L will be confirmed by the costumer and factory); ④ 规则孔(Regular bore); ⑤ 缩孔Reduce bore.

■W 指RF法兰面球阀重量(The W in the table means weight of R F End Ball Valve)

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
6	559	562	559	350	216	300	254	243
8×6 	660	664	660	350	216	300	254	249
8	660	664	660	355	254	400	342	254
10×8 	787	791	787	355	254	400	342	-
10	787	791	787	484	296	400	342	346
12×10 	838	841	838	484	296	400	342	450
12	838	841	838	549	345	400	380	534
14×12 	889	892	889	549	345	400	380	618
14	889	892	889	608	378	450	430	782
16×14 	991	994	991	608	378	450	430	1008
16	991	994	991	630	416	500	510	1205
18×16 	1092	1095	1092	630	416	500	510	1422
18	1092	1095	1092	670	460	500	510	1595
20×18 	1194	1200	1194	670	460	500	510	1843
20	1194	1200	1194	712	477	550	530	2038
24×20 	1397	1407	1397	712	477	550	530	2686
22	1295	1305	1295	758	522	812	-	2708
24	1397	1407	1397	798	558	812	-	3396
30×24 	1651	1664	1651	798	558	812	-	4496
26	1448	1461	1448	850	507	812	-	4154
28	1549	1562	1549	885	645	812	-	5108
30	1651	1664	1651	940	684	914	-	5784
36×30 	2083	2099	2083	940	684	914	-	7051
32	1778	1794	1778	988	735	914	-	6906
34	1930	1946	1930	1028	783	914	-	8238
36	2083	2099	2083	1068	845	914	-	9860
40	※2080	-	※2170	1188	920	914	-	13583

CLASS 2500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
6	914	927	914	345	250	450	430	841
8×6 	1022	1038	1022	345	250	450	430	1008
8	1022	1038	1022	402	340	500	510	1285
10×8 	1270	1292	1270	402	340	500	510	1962
10	1270	1292	1270	500	411	500	510	2116
12×10 	1422	1445	1422	500	480	500	510	3015
12	1422	1445	1422	650	480	550	510	3400

※L由厂方与用户协商确定(※ L will be confirmed by the costumer and factory);

 规则孔(Regular bore);  缩孔(Reduce bore).

■W 指RF法兰球阀重量(The W in the table means weight of R F End Ball Valve)

CLASS 900Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
6	610	613	610	360	250	400	380	300
8×6 	737	740	737	360	250	400	380	198
8	737	740	737	394	280	450	430	335
10×8 	838	841	838	394	260	450	430	385
10	838	841	838	502	325	500	510	415
12×10 	965	968	965	502	325	500	510	575
12	965	968	965	572	380	500	510	632
14×12 	1029	1038	1029	572	380	500	510	892
14	1029	1038	1029	675	395	550	530	944
16×14 	1130	1140	1130	675	395	550	530	1391
16	1130	1140	1130	762	406	550	530	1455
18×16 	1219	1232	1219	762	406	550	530	1742
18	1219	1232	1219	868	418	550	530	1936
20×18 	1321	1334	1321	868	418	550	530	2210
20	1321	1334	1321	910	465	550	530	2500
24×20 	1549	1568	1549	910	465	550	530	3150
24	1549	1568	1549	1020	553	812	-	4084
30×24 	※1880	※1902	※1880	1020	553	812	-	5822
26	※1651	※1674	※1651	1082	602	914	-	5012
28	※1753	※1775	※1753	1135	666	914	-	6066
30	※1880	※1902	※1880	1175	716	914	-	6707
36×30 	※2286	※2315	※2286	1175	716	914	-	8725
32	※2032	※2054	※2032	1255	774	914	-	8354
34	※2159	※2188	※2159	1301	814	914	-	9835
36	※2286	※2315	※2286	1445	893	914	-	12444

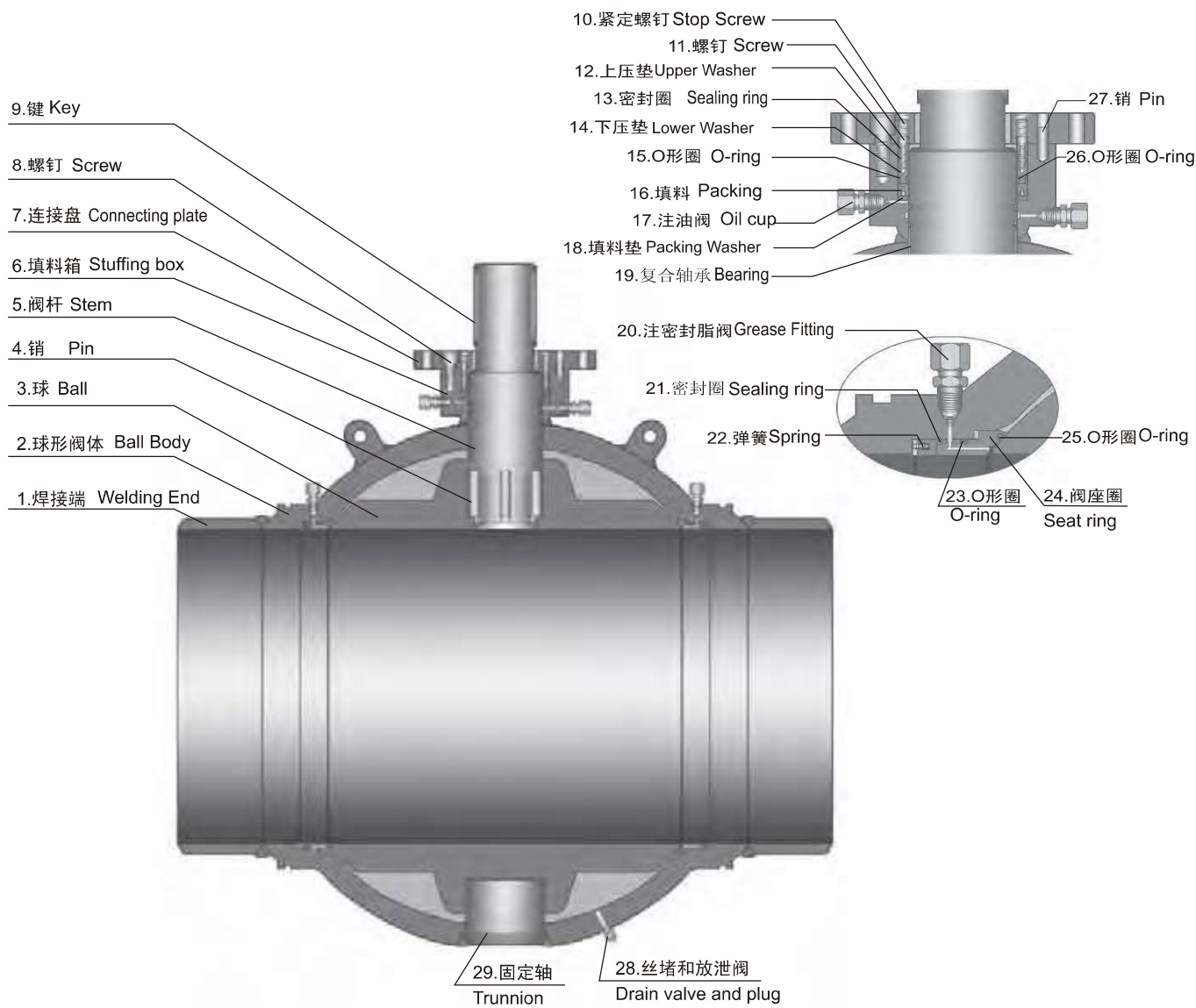
CLASS 1500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)	W≈ (Kg)
6	705	711	705	305	281	400	380	340
8×6 	832	841	832	305	281	400	380	350
8	832	841	832	365	327	450	430	378
10×8 	991	1000	991	365	327	450	430	405
10	991	1000	991	440	392	500	510	450
12×10 	1130	1146	1130	440	392	500	510	650
12	1130	1146	1130	596	425	500	510	766
14×12 	1257	1276	1257	596	425	500	510	1068
14	1257	1276	1257	661	500	550	530	1112
16×14 	1384	1406	1384	661	500	550	530	1570
16	1384	1406	1384	725	560	550	530	1695
18×16 	※1537	※1559	※1537	725	560	550	530	2138
18	※1537	※1559	※1537	789	590	812	-	2320
20×18 	※1664	※1686	※1664	789	590	812	-	1980
20	※1664	※1686	※1664	843	725	914	-	2940
24×20 	※2043	※2071	※2043	843	725	914	-	3310
24	※2043	※2071	※2043	978	813	914	-	4908

FORGED STEEL BALL VALVE 锻钢球阀

全焊固定球阀主要结构图形

Trunnion Full Welded Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72
结构长度尺寸 (End to End Dimension):	API 6D, ASME B16.10
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5, NPS ≥ 26" PER as ASME B16.47
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D, API 598
防火设计 (Fire-Safe Design):	API 607/6FA
防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)	

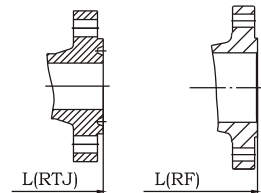
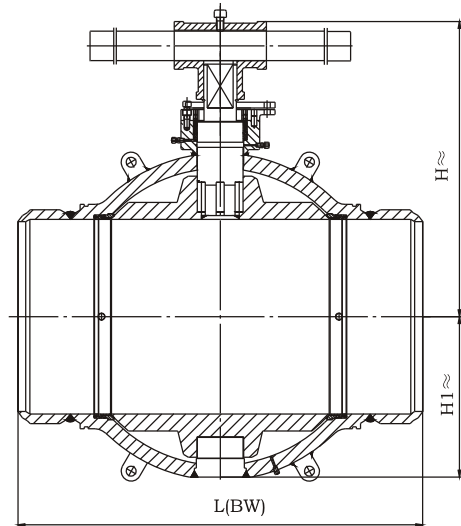
主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	焊接端 Welding end	A105, A350-LF2, A182-F304, F316、A537
2	球形阀体 Ball body	A105, A350-LF2, A182-F304, F316、A537
3	球 Ball	A105+ENP, A350-LF2+ENP、A182-F6、F304、F316
4	销 Pin	STAINLESS STEEL
5	阀杆 Stem	1045+ENP, A182-F6、F304、F316、4140+ENP、5140+ENP 17-4PH
6	填料箱 Stuffing box	A105+ENP, A182-F6、F304、F316
7	连接盘 Connecting plate	1025、A216 WCB、A351 CF8
8	螺钉 Screw	1035、STAINLESS STEEL
9	键 Key	1045
10	紧定螺钉 Stop screw	1045、STAINLESS STEEL
11	螺钉 Screw	1035、STAINLESS STEEL
12	上压垫 Upper Washer	STAINLESS STEEL
13	密封圈 Sealing ring	FLEXIBLE GRAPHITE
14	下压垫 Lower Washer	STAINLESS STEEL
15	O形圈 O-ring	NBR,VITON
16	填料 Packing	PTFE
17	注油阀 Oil cup	1025、SS304
18	填料垫 Packing Washer	STAINLESS STEEL
19	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
20	注密封脂阀 Grease Fitting	1025、SS304、SS316
21	密封圈 Sealing ring	FLEXIBLE GRAPHITE
22	弹簧 Spring	SS304、INCONEL、1566+Enp
23	O形圈 O-ring	VITON
24	阀座圈 Seat ring	A105+ENP, A182-F6、F304、F316
25	O形圈 O-ring	VITON
26	O形圈 O-ring	VITON
27	销 PIN	AISI 1566、1045
28	丝堵和放泄阀 Drain valve and plug	1025、SS304、SS316
29	固定轴 Trunnion	1045+ENP, A182-F6、F304、4140+ENP、5140+ENP、17-4PH

FORGED STEEL BALL VALVE 锻钢球阀

全焊固定球阀结构形式及尺寸表

Trunnion Full Welded Ball Valve Construction and Dimension CLASS 150Lb~2500Lb



QF206761W I 1~QF206761W I 2

CLASS 150Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)
2	178	191	216	143	100	250
2½	191	203	241	180	108	250
3×2	203	216	283	143	100	250
3	203	216	283	232	130	250
4×3	229	241	305	232	130	350
4	229	241	305	243	151	350
6×4	394	406	457	243	151	450

CLASS 900Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)
2	368	371	368	217	118.5	500
2½	419	422	419	241	133	500
3×2	381	384	381	217	118.5	500
3	381	384	381	259	141	900
4×3	457	460	457	259	141	900
4	457	460	457	297	167	1000
6×4	610	613	610	297	167	1000

CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)
2	216	232	216	158	87	350
2½	241	257	241	200	107	300
3×2	283	298	283	158	87	250
3	283	298	283	220	122	350
4×3	305	321	305	220	122	350
4	305	321	305	282	148	450
6×4	403	419	403	282	148	450

CLASS 1500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)
2	368	371	368	237	122	800
2½	419	422	419	261	148	900
3×2	470	473	470	237	122	800
3	470	473	470	269	163	1000
4×3	546	549	546	269	163	1000
4	546	549	546	297	173	1000
6×4	705	711	705	297	173	1000

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)
2	292	295	292	195	100	500
2½	330	333	330	212	115	600
3×2	356	359	356	195	100	500
3	356	359	356	247	126	700
4×3	432	435	432	275	154	700
4	432	435	432	275	154	900
6×4	559	562	559	275	154	900

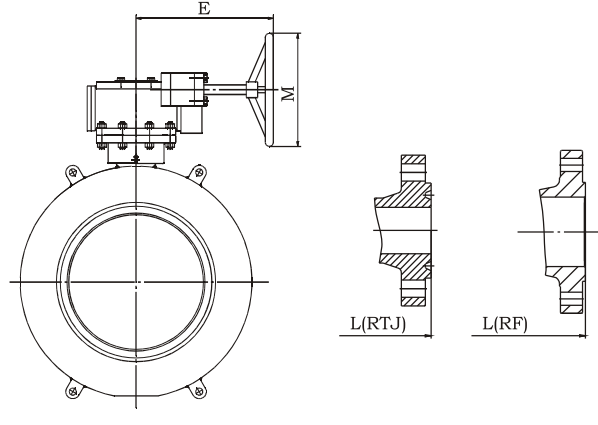
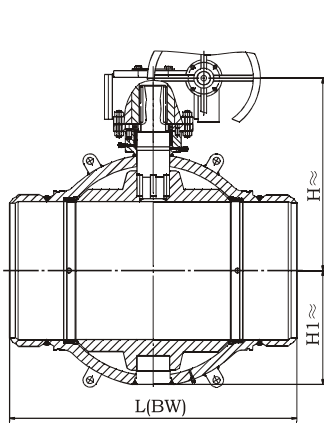
CLASS 2500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)
2	451	454	451	240	129	1000
2½	508	514	508	270	135	1000
3×2	578	584	578	240	129	1000
3	578	584	578	300	159	1000
4×3	673	683	673	300	159	1000
4	673	683	673	350	204	1000
6×4	914	927	914	350	204	1000

规则孔(Regular bore); 缩孔(Reduce bore).

全焊固定球阀结构形式及尺寸表

Trunnion Full Welded Ball Valve Construction and Dimension CLASS 150Lb~2500Lb



CLASS 150Lb

QF236761W I 1~QF236761W I 2

CLASS 300Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)
6	394	406	457	280	178	300	254
8×6 ⑥	457	470	521	280	178	300	254
8	457	470	521	305	225	300	254
10×8 ⑥	533	546	559	305	225	300	254
10	533	546	559	395	257	400	270
12×10 ⑥	610	622	635	395	257	400	270
12	610	622	635	428	323	400	320
14×12 ⑥	686	699	762	428	323	400	320
14	686	699	762	465	355	400	380
16×14 ⑥	762	775	838	465	355	400	380
16	762	775	838	528	398	450	430
18×16 ⑥	864	876	914	528	398	450	430
18	864	876	914	564	437	500	510
20×18 ⑥	914	927	991	564	437	500	510
20	914	927	991	577	453	500	510
24×20 ⑥	1067	1080	1143	577	453	500	510
22	※991	-	※1092	365	499	500	510
24	1067	1080	1143	667	536	500	510
30×24 ⑥	1295	-	1397	667	536	500	510
26	1143	-	1245	705	564	550	530
28	1245	-	1346	907	708	812	-
30	1295	-	1397	949	750	812	-
36×30 ⑥	1524	-	1727	949	750	812	-
32	1372	-	1524	-	-	812	-
34	1473	-	1626	1016	817	812	-
36	1524	-	1727	1057	858	914	-
40	※1753	-	※1753	1276	1020	914	-

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)
6	403	419	403	285	201	300	254
8×6 ⑥	502	518	521	285	201	300	254
8	502	518	521	368	232	400	270
10×8 ⑥	568	584	559	368	232	400	270
10	568	584	559	451	283	400	342
12×10 ⑥	648	664	635	451	283	400	342
12	648	664	635	570	335	400	380
14×12 ⑥	762	778	762	570	335	400	380
14	762	778	762	600	377	450	430
16×14 ⑥	838	854	838	600	377	450	430
16	838	854	838	638	396	500	510
18×16 ⑥	914	930	914	638	396	500	510
18	914	930	914	750	437	500	510
20×18 ⑥	991	1010	991	750	437	500	510
20	991	1010	991	612	477	500	510
24×20 ⑥	1143	1165	1143	612	477	500	510
22	1092	1114	1092	781	566	550	530
24	1143	1165	1143	778	602	550	530
30×24 ⑥	1397	1422	1397	778	602	550	530
26	1245	1270	1245	872	672	550	530
28	1346	1372	1346	907	708	550	530
30	1397	1422	1397	949	750	762	-
36×30 ⑥	1727	1756	1727	949	750	762	-
32	1524	1553	1524	-	-	812	-
34	1626	1654	1626	1016	817	914	-
36	1727	1756	1727	1191	935	914	-
40	※1850	-	※1930	1276	1020	914	-

※L由方厂与用户协商确定(※ L will be confirmed by the costumer and factory); ⑥ 规则孔(Regular bore); ⑦ 缩孔Reduce bore.

FORGED STEEL BALL VALVE 锻钢球阀

CLASS 600Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)
6	559	562	559	350	100	300	254
8×6	660	664	660	350	100	300	254
8	660	664	660	355	115	400	342
10×8	787	791	787	355	115	400	342
10	787	791	787	484	126	400	342
12×10	838	841	838	484	126	400	342
12	838	841	838	549	154	400	380
14×12	889	892	889	549	154	400	380
14	889	892	889	608	198	450	430
16×14	991	994	991	608	198	450	430
16	991	994	991	630	352	500	510
18×16	1092	1095	1092	630	352	500	510
18	1092	1095	1092	670	317	500	510
20×18	1194	1200	1194	670	317	500	510
20	1194	1200	1194	762	343	550	530
24×20	1397	1407	1397	762	405	550	530
22	1295	1305	1295	801	377	812	-
24	1397	1407	1397	840	405	812	-
30×24	1651	1664	1651	840	455	812	-
26	1448	1461	1448	872	673	812	-
28	1549	1562	1549	1041	784	812	-
30	1651	1664	1651	1083	826	914	-
36×30	2083	2099	2083	1083	826	914	-
32	1778	1794	1778	-	-	914	-
34	1930	1946	1930	1151	894	914	-
36	2083	2099	2083	1192	935	914	-
40	※2080	-	※2170	1408	1067	914	-

CLASS 2500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)
6	914	927	914	345	250	450	430
8×6	1022	1038	1022	345	250	450	430
8	1022	1038	1022	402	340	500	510
10×8	1270	1292	1270	402	340	500	510
10	1270	1292	1270	500	411	500	510
12×10	1422	1445	1422	500	480	500	510
12	1422	1445	1422	650	480	550	530

※L由厂方与用户协商确定(※ L will be confirmed by the costumer and factory);

规则孔(Regular bore); 缩孔Reduce bore.

CLASS 900Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)
6	610	613	610	360	250	400	380
8×6	737	740	737	360	250	400	380
8	737	740	737	394	280	450	430
10×8	838	841	838	394	260	450	430
10	838	841	838	502	325	500	510
12×10	965	968	965	502	325	500	510
12	965	968	965	572	380	500	510
14×12	1029	1038	1029	572	380	500	510
14	1029	1038	1029	675	395	550	530
16×14	1130	1140	1130	675	395	550	530
16	1130	1140	1130	762	406	550	530
18×16	1219	1232	1219	762	406	550	530
18	1219	1232	1219	868	418	550	530
20×18	1321	1334	1321	868	418	550	530
20	1321	1334	1321	895	615	550	530
24×20	1549	1568	1549	895	615	550	530
24	1549	1568	1549	970	713	812	-
30×24	※1880	※1902	※1880	970	713	812	-
26	※1651	※1674	※1651	-	-	914	-
28	※1753	※1775	※1753	-	-	914	-
30	※1880	※1902	※1880	1083	826	914	-
36×30	※2286	※2315	※2286	1083	826	914	-
32	※2032	※2054	※2032	-	-	914	-
34	※2159	※2188	※2159	-	-	914	-
36	※2286	※2315	※2286	1322	981	914	-

CLASS 1500Lb

SIZE (in)	L(RF) (mm)	L(RTJ) (mm)	L(BW) (mm)	H≈ (mm)	H1≈ (mm)	M≈ (mm)	E≈ (mm)
6	705	711	705	305	211	400	380
8×6	832	841	832	305	211	400	380
8	832	841	832	365	274	450	430
10×8	991	1000	991	365	274	450	430
10	991	1000	991	440	310	500	510
12×10	1130	1146	1130	440	310	500	510
12	1130	1146	1130	596	440	500	510
14×12	1257	1276	1257	596	440	500	510
14	1257	1276	1257	661	442	550	530
16×14	1384	1406	1384	661	442	550	530
16	1384	1406	1384	684	483	550	530
18×16	※1537	※1559	※1537	684	483	550	530
18	※1537	※1559	※1537	856	576	812	-
20×18	※1664	※1686	※1664	856	576	812	-
20	※1664	※1686	※1664	895	615	914	-
24×20	※2043	※2071	※2043	895	615	914	-
24	※2043	※2071	※2043	970	713	914	-

加长全焊球阀结构形式

Extended Full Welded Ball Valve Construction

加长全焊球阀的加长高度由客户定,其它的技术参数和全焊球阀的一样。

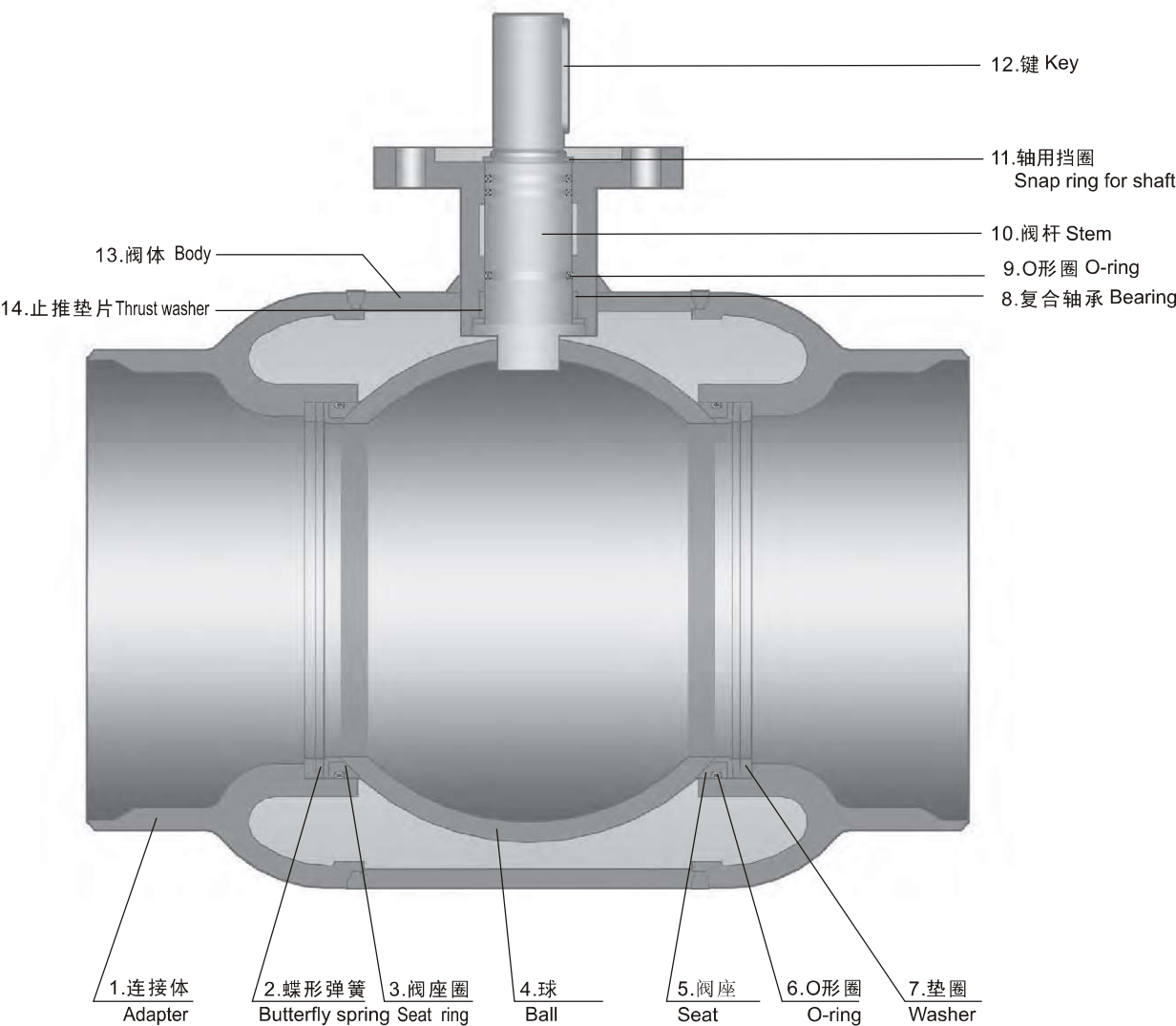
The length of the extension for full welded ball valve will be confirmed by clients, other technical data is the same as full welded ball valve.



FORGED STEEL BALL VALVE 锻钢球阀

供热全焊球阀主要结构图形

District Heating Full Welded Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):	API 6D, ASME B16.34 (BS5351), API 608, MSS-SP-72
结构长度尺寸 (End to End Dimension):	按厂标 (Manufacturer's specification)
法兰连接尺寸 (Flange Connection Dimension):	ASME B16.5
对焊端尺寸 (BW Connection Dimension):	ASME B16.25
检查和试验 (Test and Inspection):	API 6D, API 598

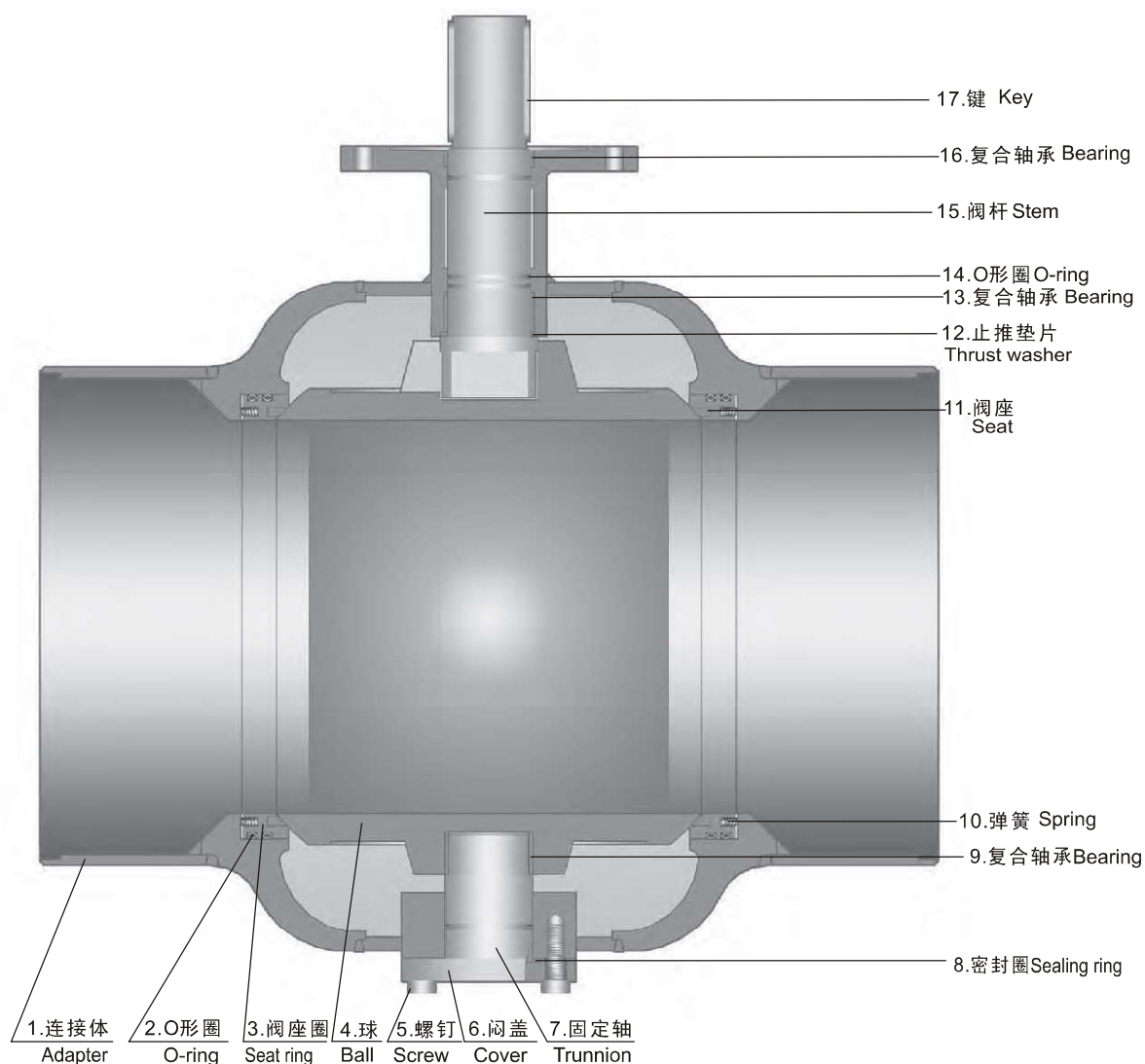
主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	连接体 Adapter	1020、A53
2	蝶形弹簧 Butterfly spring	SS304
3	阀座圈 Seat ring	SS304
4	球 Ball	SS304
5	阀座 Seat	PTFE、RPTFE、NYLON、POM、PPL、PEEK、KARBATE、MOLON、DEVLON
6	O形圈 O-ring	VITON
7	垫圈 Washer	SS304
8	复合轴承 Bearing	1045+RPTFE
9	键 Key	1045
10	轴用挡圈 Snap ring for shaft	AISI 1566
11	阀杆 Stem	A182-F6、F304、F316、F304L、F316L、F321、17-4PH
12	O形圈 O-ring	VITON
13	阀体 Body	1020
14	止推垫片 Thrust washer	PTFE、RPTFE、STAINLESS STEEL

FORGED STEEL BALL VALVE 锻钢球阀

供热全焊球阀主要结构图形

District Heating Full Welded Ball Valve Major Features



主要参数 Main Parameter Specification

设计和制造 (Design and Manufacture):

API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72

结构长度尺寸 (End to End Dimension):

按厂标 (Manufacturer's specification)

法兰连接尺寸 (Flange Connection Dimension):

ASME B16.5, NPS ≥ 26" PER as ASME B16.47

对焊端尺寸 (BW Connection Dimension):

ASME B16.25

检查和试验 (Test and Inspection):

API 6D, API 598

防火设计 (Fire-Safe Design):

API 607/6FA

防静电设计和防爆阀杆 (Anti-Static Design & Anti Blow-Out Stem)

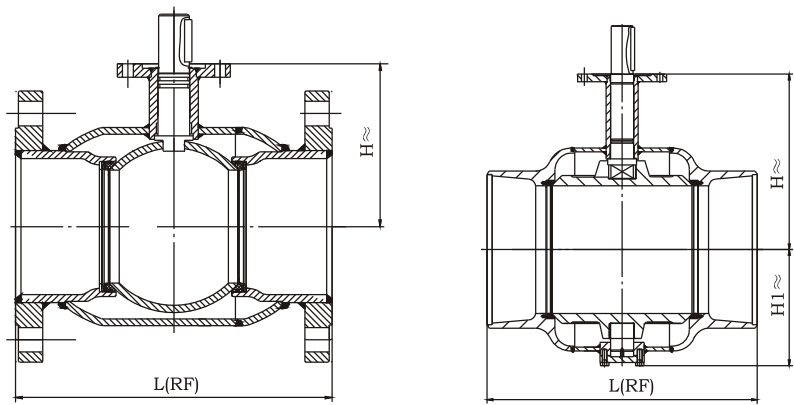
主要材料 Main Material

序号 No.	名称 PART NAME	材料 MATERIAL
1	连接体 Adapter	1020
2	O形圈 O-ring	Viton
3	阀座圈 Seat ring	SS304
4	球 Ball	SS304
5	螺钉 Screw	1035
6	闷盖 Cover	1025
7	固定轴 Trunnion	A276-T410
8	密封圈 Sealing ring	SS304、SS316+FLEXIBLE GRAPHITE SPIRAL WOUND
9	复合轴承 Bearing	1045+RPTFE
10	弹簧 Spring	SS304、17-4PH、INCONEL
11	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
12	止推垫片 Thrust washer	PTFE、RPTFE、STAINLESS STEEL+N
13	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
14	O形圈 O-ring	VITON
15	阀杆 Stem	A182-F6,304
16	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
17	键 Key	1045

FORGED STEEL BALL VALVE 锻钢球阀

供热全焊球阀结构形式及尺寸表

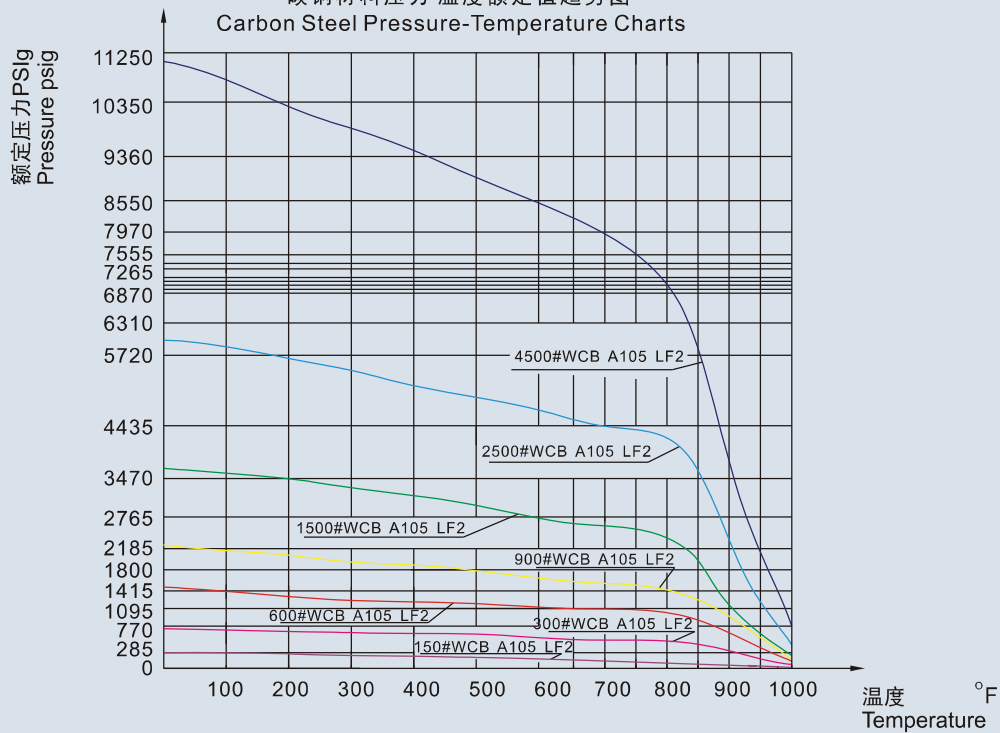
District Heating Full Welded Ball Valve Construction and Dimension



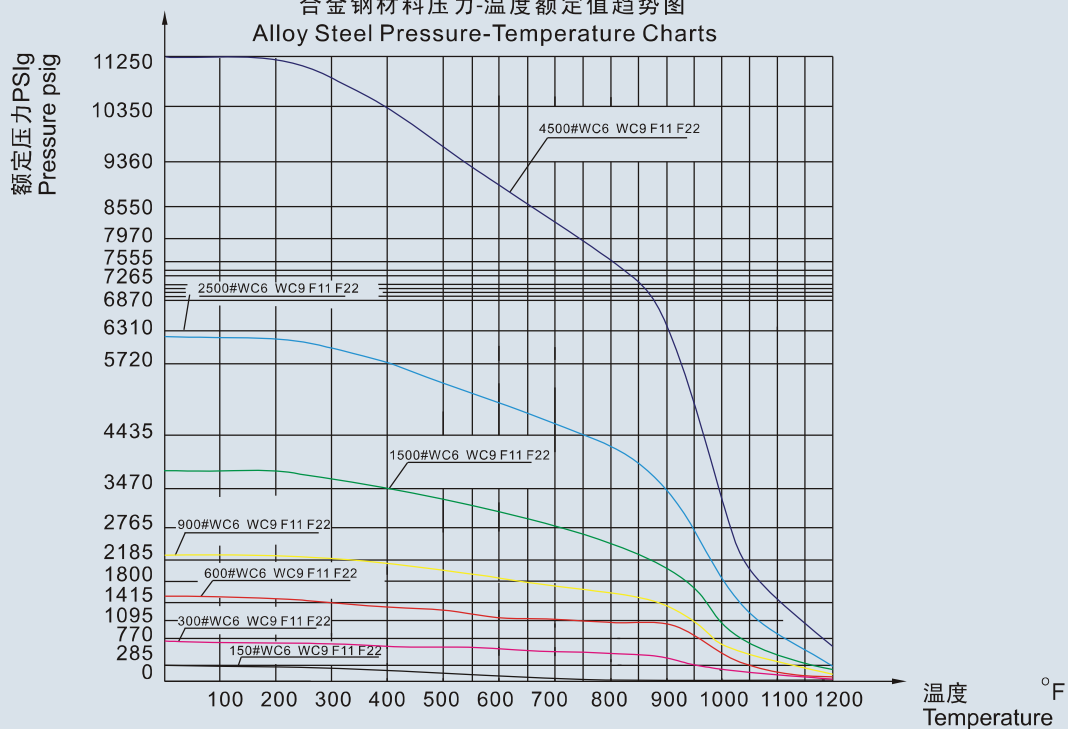
SIZE in	L(RF) mm		L(BW) mm		H≈ mm	H1≈ mm
	150Lb	300Lb	150Lb	300Lb		
6	-	-	350	350	200	
8×6 [Ⓔ]	457	502	400	400	200	-
8	-	-	580	580	243	-
10×8 [Ⓔ]	533	568	560	560	243	-
10	-	-	550	550	315	-
12×10 [Ⓔ]	610	648	635	635	315	-
12	-	-	630	630	400	335
14×12 [Ⓔ]	686	762	650	650	400	335
14	-	-	762	762	430	370
16×14 [Ⓔ]	762	838	760	760	430	370
16	-	-	840	840	477	400
18×14 [Ⓔ]	864	914	842	842	430	370
18	-	-	842	842	550	437
20×16 [Ⓔ]	914	991	910	910	477	400
20	-	-	1010	1010	580	453
22×18 [Ⓔ]	-	-	1092	1092	550	437
22	-	1092	1092	1092	610	500
24×20 [Ⓔ]	1067	-	1065	1065	580	433
24	-	1143	1140	1140	650	600

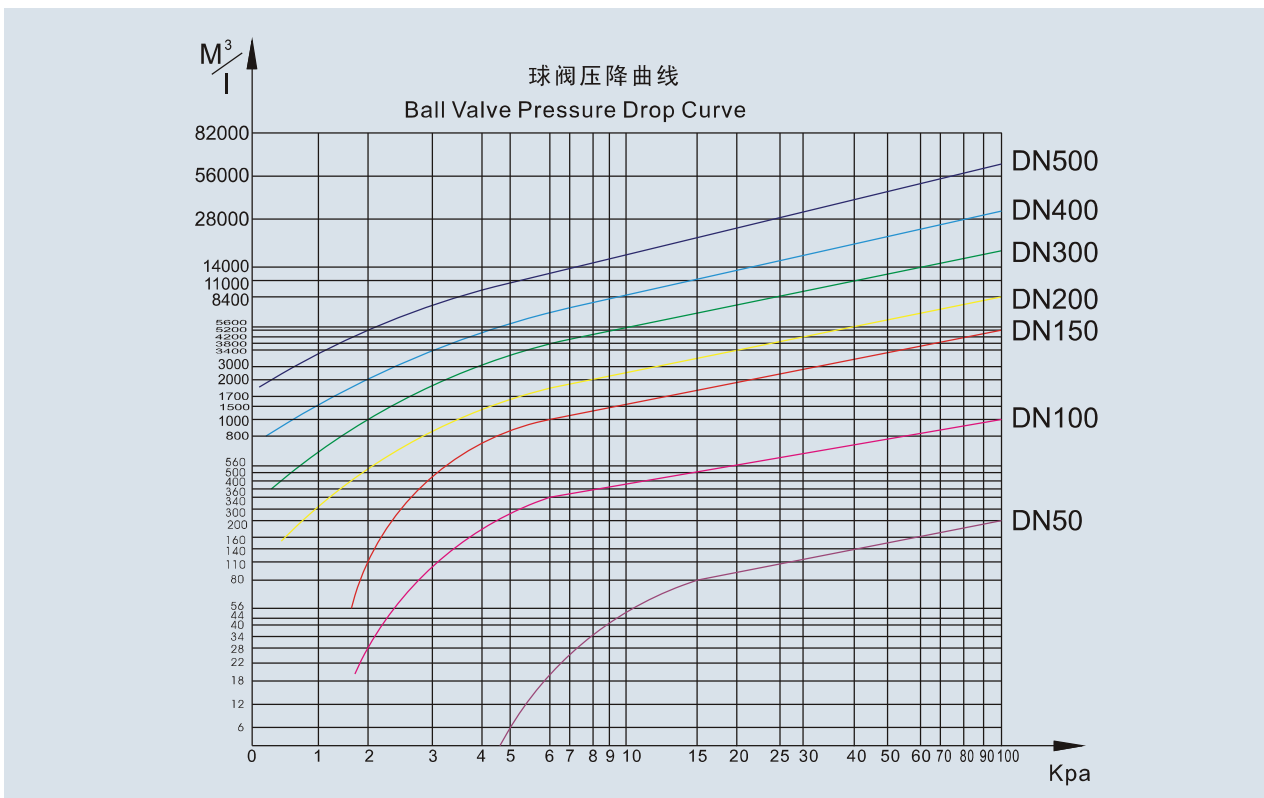
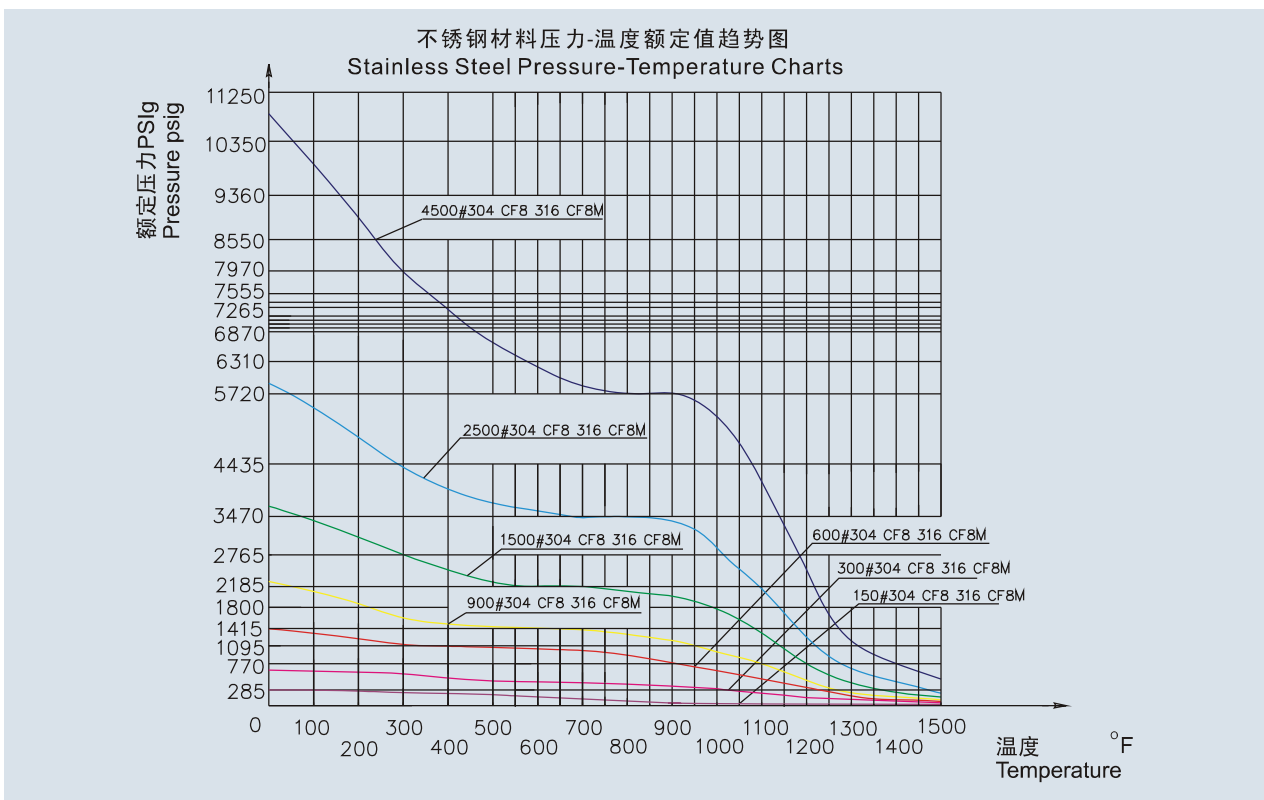
[Ⓔ] 规则孔(Regular bore)

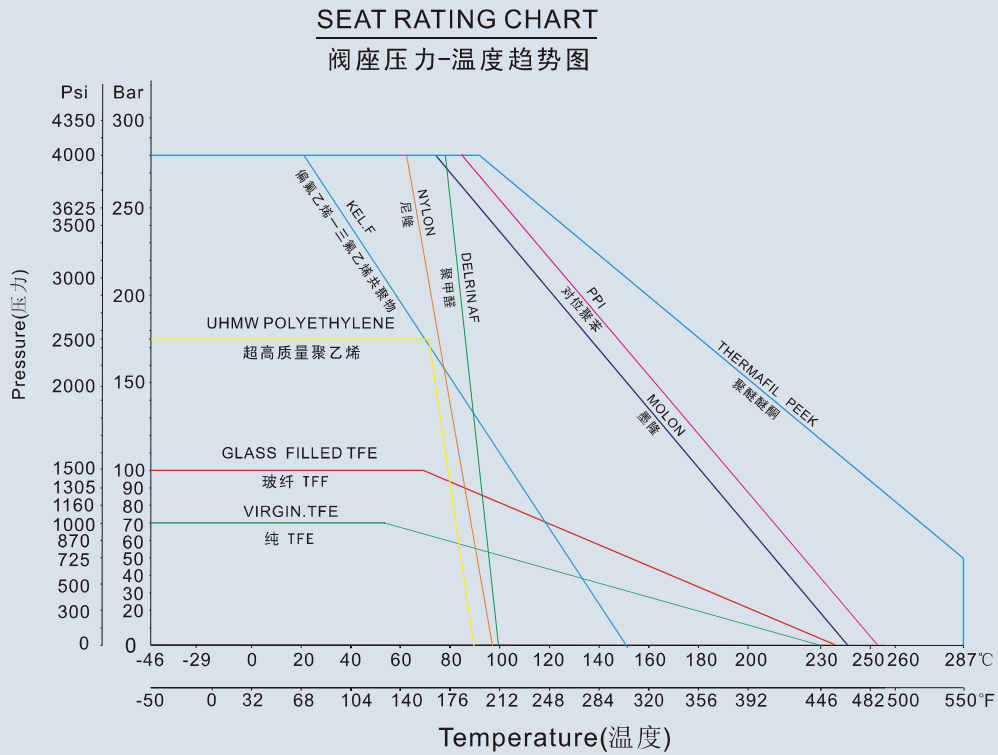
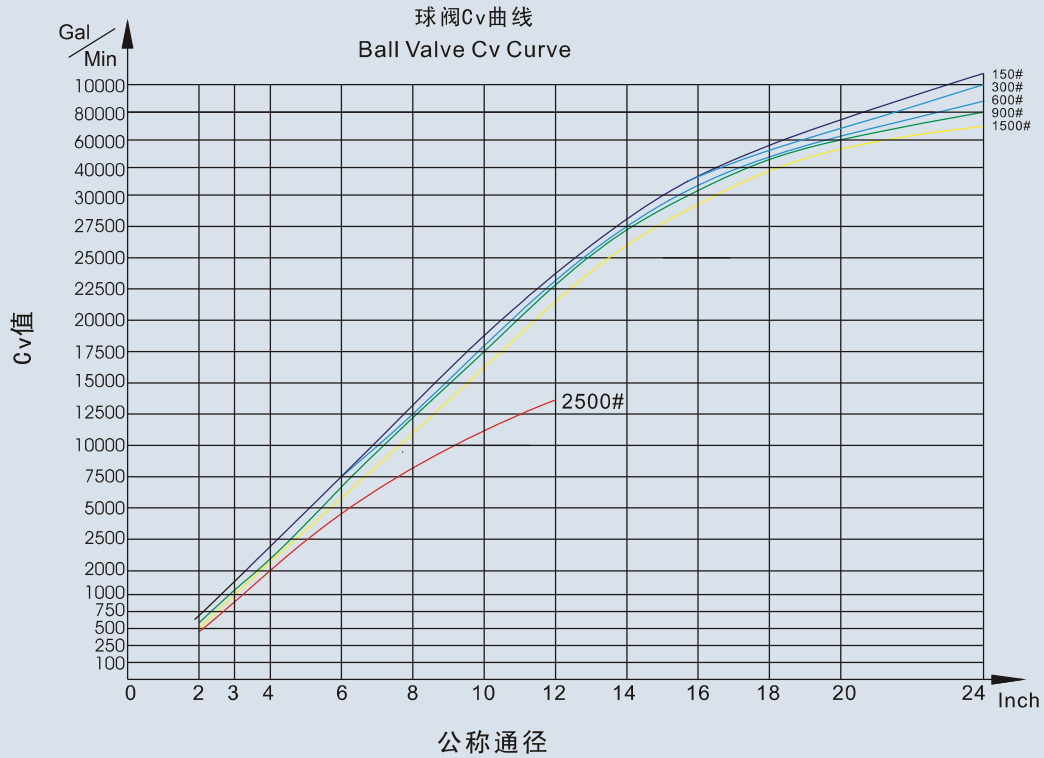
碳钢材料压力-温度额定值趋势图
Carbon Steel Pressure-Temperature Charts

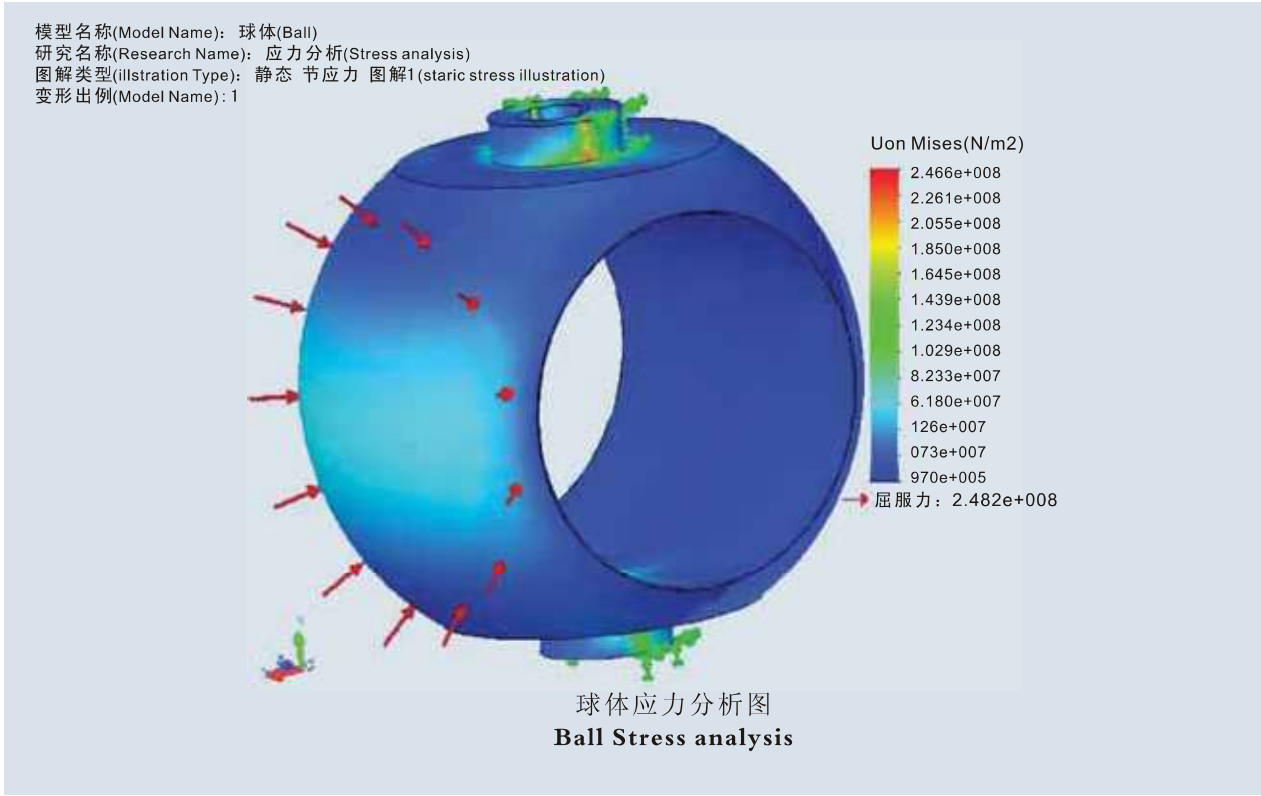
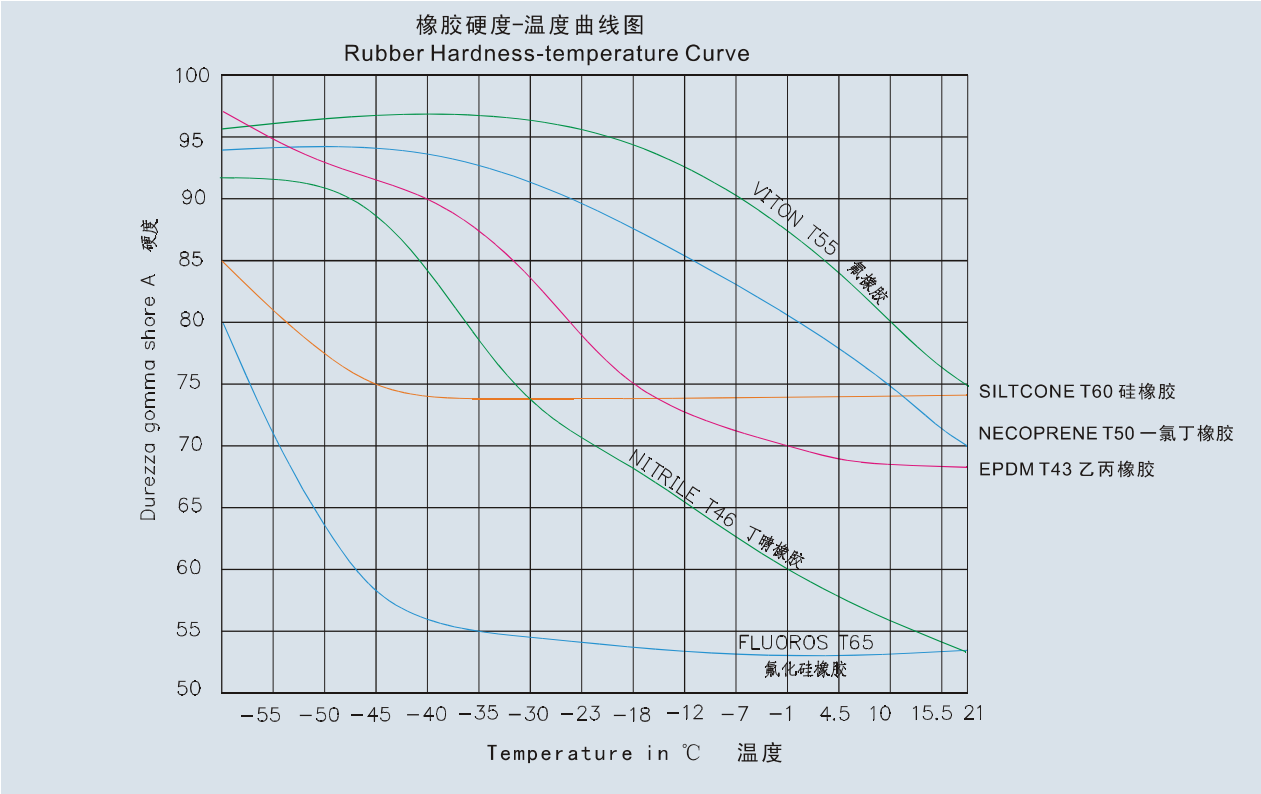


合金钢材料压力-温度额定值趋势图
Alloy Steel Pressure-Temperature Charts









本产品样本仅供参考，随着公司的发展和技术的改进将会发生变化。请及时向本公司索取新资料。

The whole info in this catalogue is only for reference, with the development and technical improvement, please require new info to our company on time.



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