

► INDUSTRIAL VALVES
工业阀门

PAV[®]

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WENZHOU PAV VALVE CO.,LTD

Ball Valve

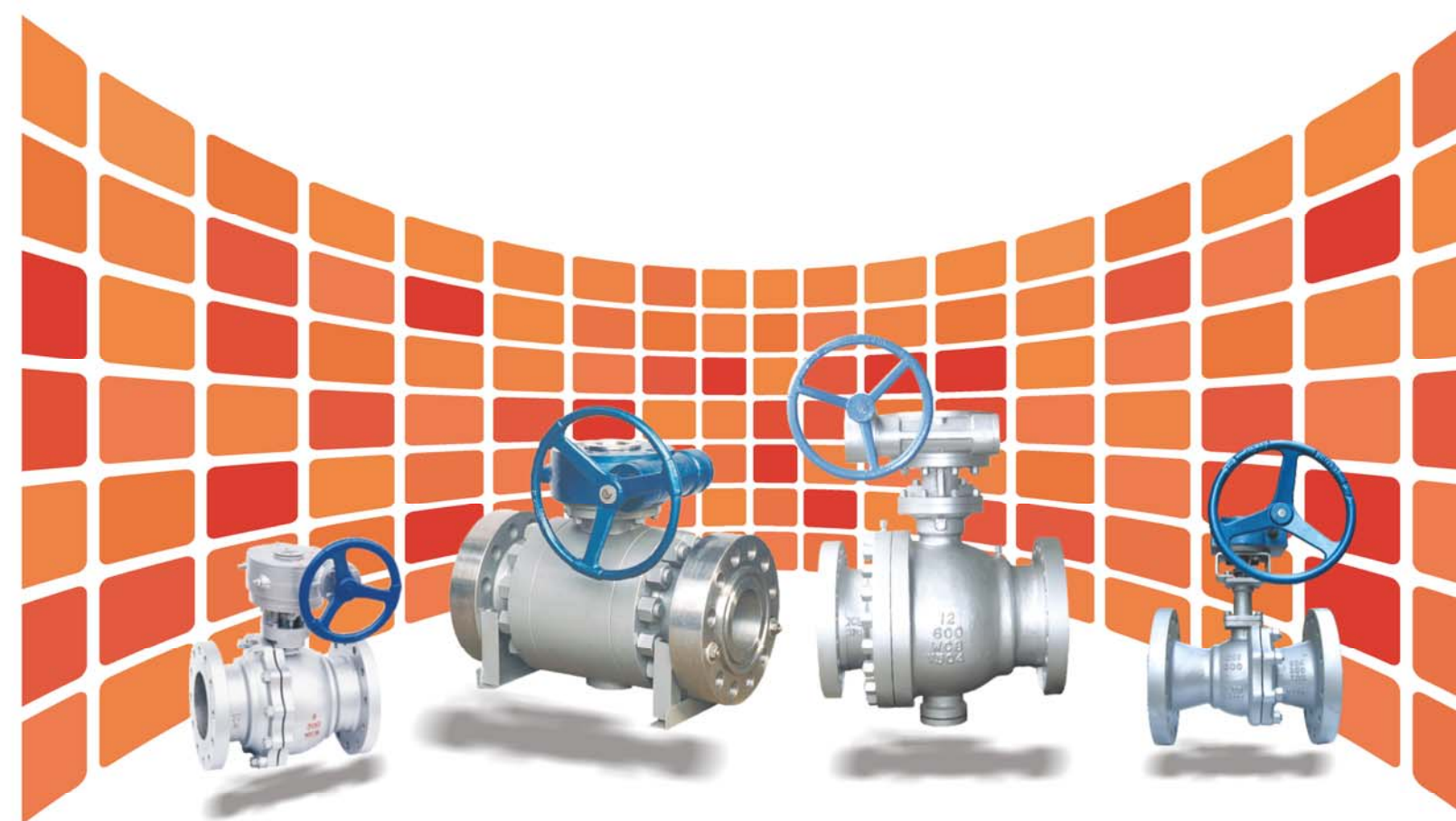
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win trust based on responsibility



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BRIEF INTRODUCTION

企业简介



PAV VALVE co., ltd. Is located in Wenzhou.
with a convenient transportation in road, sea and air. Besides, with beautiful scenery of Yandang Mountain and Nanxi River, Wenzhou also is a scenic spot for tourism and vacation.

Company is specialized in manufacture and research and development of various industrial valves.

main product covers:

gate valve, globe valve, ball valve, check valve, butterfly valve and strainer.

applicable standard covers API, JIS, BS, DIN, NF etc.

The valves can be supplied with various connection type to cater with different demands from customers, it covers: Flange ends, threaded ends, butt welded ends, socket welded ends, clip hoop ends, etc. The valve we supplied can be operated by handwheel, gearbox, pneumatic, electric, hydraulic actuator or electric-hydraulic actuator, hydro-pneumatic actuator, etc. The company can produce a wide range pressure rating and size, from class 150 to class 2500, size from 1/2" to 42". Materials are carbon steel, alloy steel, stainless steel, monel, hastelloy steel, etc. Output annually is over 5000 tons. Its products have been widely used in petrochemical, metallurgy, building construction, power station, shipbuilding and other industries. The company also have exported large number of products to many countries and regions and gained high reputation.

The company always strictly comply with the quality management system of ISO9001-2008 in its dailyoperation, Emphasizing in product quality and after-sale service. Its has a full sets of machining machines and quality control Equipments. Relying on its strong technology, advanced machining workmanship and well-trained workers, its products are always with premium quality.

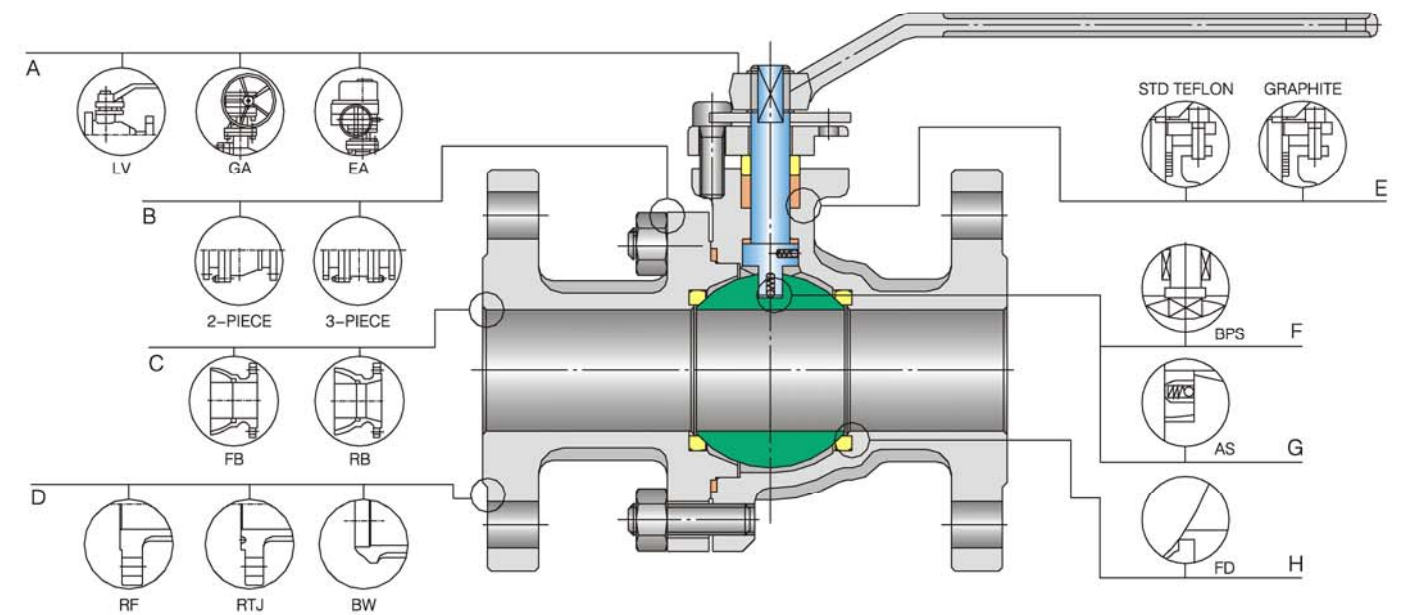
The company serves new and old customers in a principle of "reputation first, customer foremost, circumspect service, quality guarantee", warmly welcome all circles of friends to visit our company.

Experiences –PAV



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A. 驱动方式 Operating

加长手柄易于驱动，在更多不同工况中，可采用蜗轮、电动、气动、液动。
Extended lever for easy operation. Also available with gearing, motor actuators, pneumatic or hydraulic actuators for more difficult services.

B. 阀体和阀盖 Body & Bonnet

两片式或三片式，12"以下尺寸，常常选用两片式，这种设计拆卸方便，易于维修或更换内部零部件。
2-piece or 3-piece, 2-piece body & bonnet for 12" & Small. Disassembles easily for repair or replacement of internal components.

C. 通径 Bore

全通径或缩径，全通径设计可提供非同一般的流量控制。
Full Bore or Reduced Bore. Full-bore design provides exceptional flow control.

D. 端口连接 End Connections

可灵活选用法兰连接、RTJ环连接或对焊连接在管道中。
A choice of Flanged, RTJ flanged or Butt welding end for piping flexibility.

E. 填料 Packing

标准填料，复合V-TEFLON填料，结合动负载，维持填料在高频使用和苛刻环境下压缩。石墨填料通常应用在高温环境下。
STD Packing Multiple V-TEFLON packing, combined with live loading, maintains packing compression under high-cycle and severe service applications. Graphite packing use situation for high-temperature.

F. 防飞出阀杆 BPS

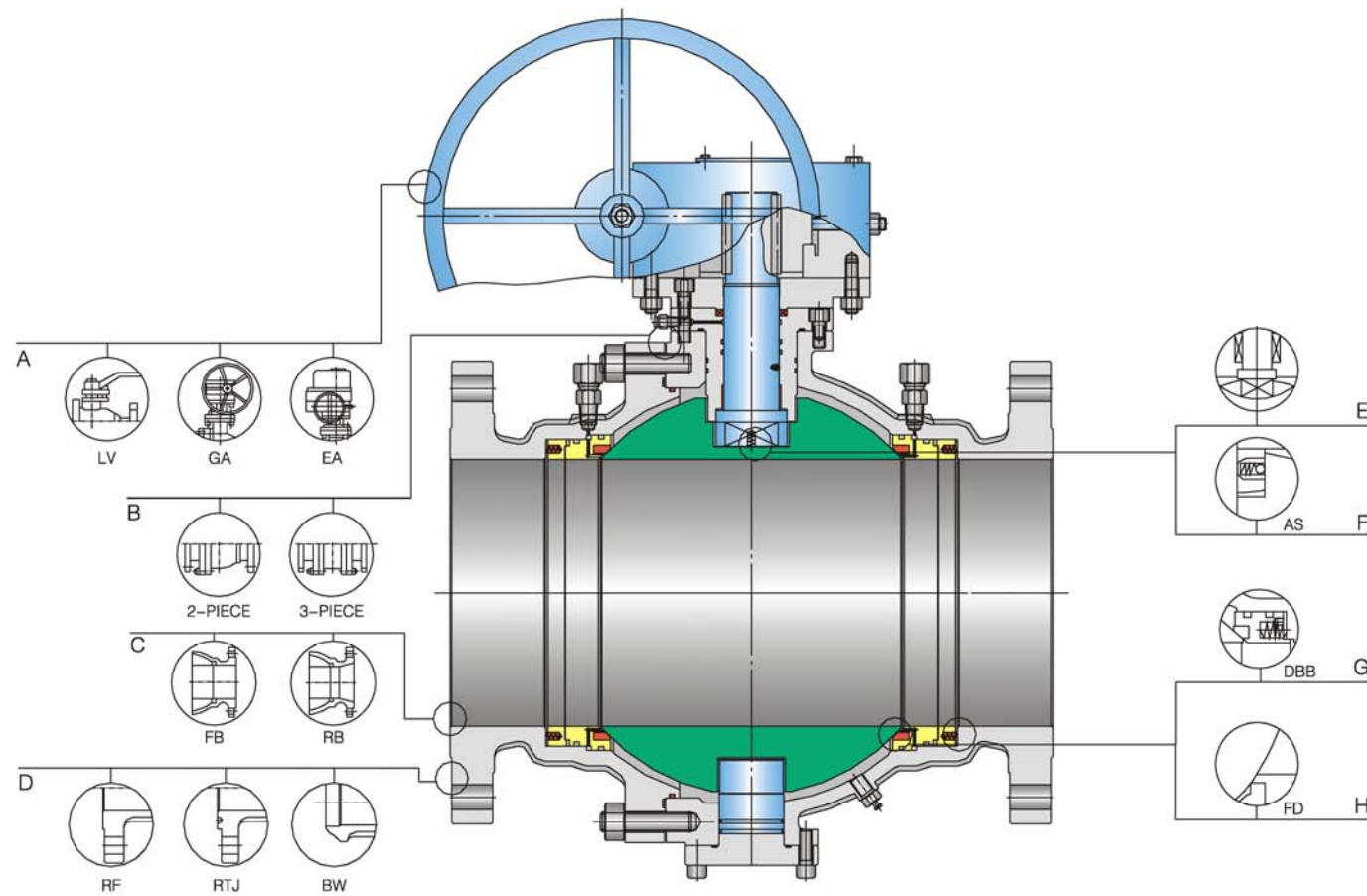
压力安全保护的阀杆带有台阶，在压力过高情况可防止阀杆飞出。
Blow-out Proof Stem.
A pressure-safe stem shoulder design that protects against failure under excess pressure.

G. 防静电装置 AS

球体和阀杆/阀体之间常常发生金属摩擦，易产生静电，通过防静电装置将球体上电荷导出。
Anti Static. A metallic contact is always granted between ball and stem/body to discharge eventual statics build-up during service.

H. 防火设计 FD

防火设计按照API 607或BS 6755，保证适用在火灾突发情况下，如果第一道密封被火灾烧坏时，第二重密封金属对金属密封可发挥作用，阀门会按照遵循API 607标准配置柔性石墨填料和垫片。
Fire Durable. Designed to API 607 or BS 6755 to grant their operation suitability in case of fire. Secondary metal-to-metal seal acts as backup if primary seal is destroyed by fire. Valves ordered for compliance with API 607 will be provided with graphite packing and gaskets.



A. 驱动方式 Operating

加长手柄易于驱动，在更多不同工况中，可采用蜗轮、电动、气动、液动。
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Blow-out Proof Stem. A pressure-safe stem shoulder design that protects against failure under excess pressure.

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球体和阀杆/阀体之间常常发生金属摩擦，易产生静电，通过防静电装置将球体上电荷导出。
Anti Static. A metallic contact is always granted between ball and stem/body to discharge eventual statics build-up during service.

G. 双阻塞双排放 DBB

当球体是全开或全关状态下，阀体内腔是孤立的，在高压情况下可防止介质堵塞在阀腔里。
Double Block & Bleed. The body cavity is isolated when the ball is in either fully closed or fully opened position, the medium entrapped in it can easily be bled to avoid over pressure.

H. 防火设计 FD

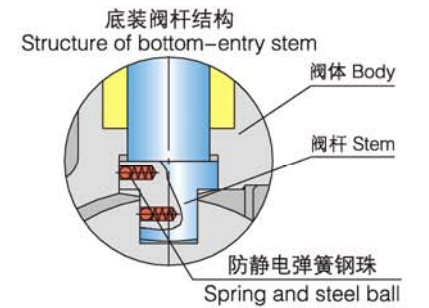
防火设计按照API 607或BS 6755，保证适用在火灾突发情况下，如果第一道密封被火灾烧坏时，第二重密封金属对金属密封可发挥作用，阀门会按照遵循API 607标准配置柔性石墨填料和垫片。
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本公司球阀特点

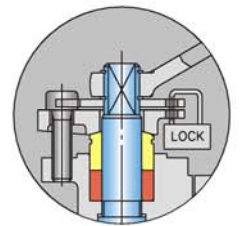
- 1、防火防静电阀杆，防吹飞设计。阀杆采用下装式设计，防止了由于内腔压力异常升高，而使阀杆飞出。同时，静电弹簧和钢珠可以将体腔中的静电通过阀杆传递给壳体，而防止由于静电使体腔内可燃介质发生爆炸。
- 2、防火阀座设计。当火灾时，先烧了PTFE阀座，而由于介质作用，而使球体浮动，靠在阀体阀座处的金属面上，达到二次密封作用，防止了火灾的扩散。达到了安全防护作用。
- 3、弹簧阀座可沿通道方向稍移。当中腔压力过于进口或出口端压力时，会促使阀座后退，而迫使中腔压力自动泄放，达到管路两端压力平衡。同时阀座会由于作用面压力差而更贴紧球体，增强了密封性能。
- 4、阀门具有定位带锁设计。可防止误操作。

Structural Features

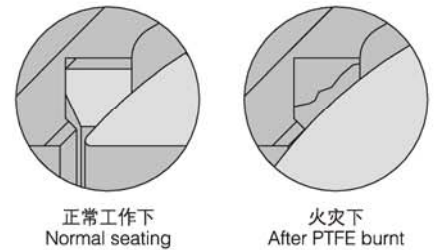
1. Stem with fire safe design, Antistatic design and anti blow-out design. Stem is designed with Bottom-entry, to sure that the stem cannot be able to ejecting from the valve while the cavity pressure is excessively increased. Besides, the spring and small ball can transfer the electrostatic from stem to body to prevent static spark as which may cause a fire even an explosion if the medium is flammable.
2. Fire design seat. In case of fire, the non-metal stem seal and PTFE seats will be burnt. Because the action force of the medium, the ball will be moved towards the metal face on the valve body to achieve secondary sealing, preventing spread of the fire.
3. Spring loaded seats can be moved along the passage sides. While the cavity pressure is higher than that one in the downstream side, then the seats will be forced to be moved back, disconnecting with the ball to relieve cavity pressure automatically. This design can achieve a balance between the two ends. While the seat will contact the ball more tight due to the pressure difference, inhancing the sealing performance.
4. Valve is designed with a position-set locking device, which can prevent wrong operation.



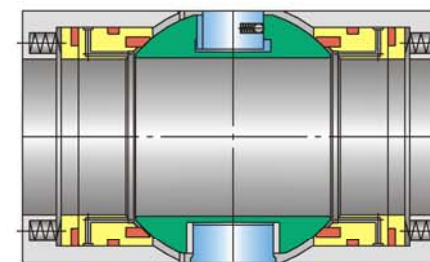
限位带锁结构
Locking device



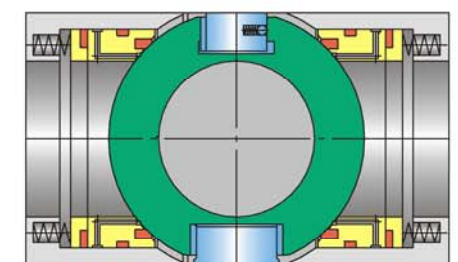
浮动球阀防火阀座设计
Fire safe design of floating ball valve



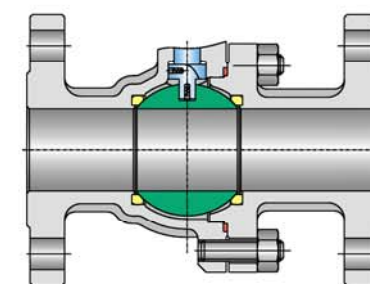
固定球阀防火阀座设计
Fire safe design of trunnion mounted ball valve



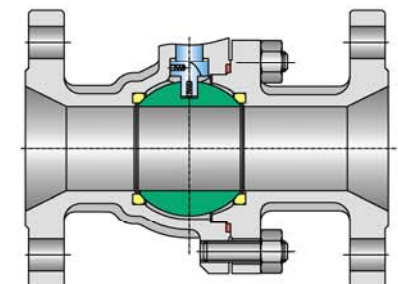
正常工作下 Normal seating



火灾下 After PTFE burnt

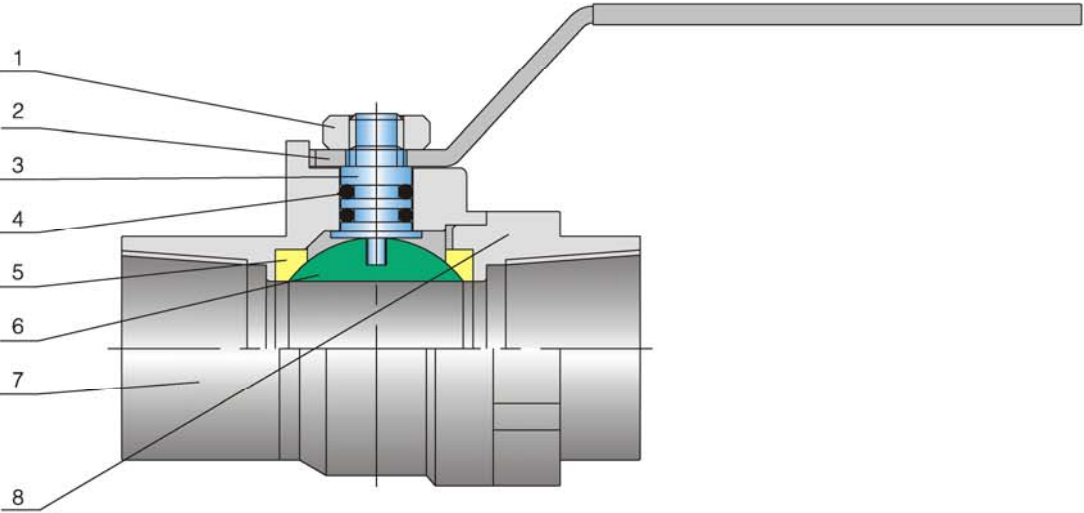


全通径球阀 Full port



缩径球阀 Reduce port

主要结构图形 Major Features



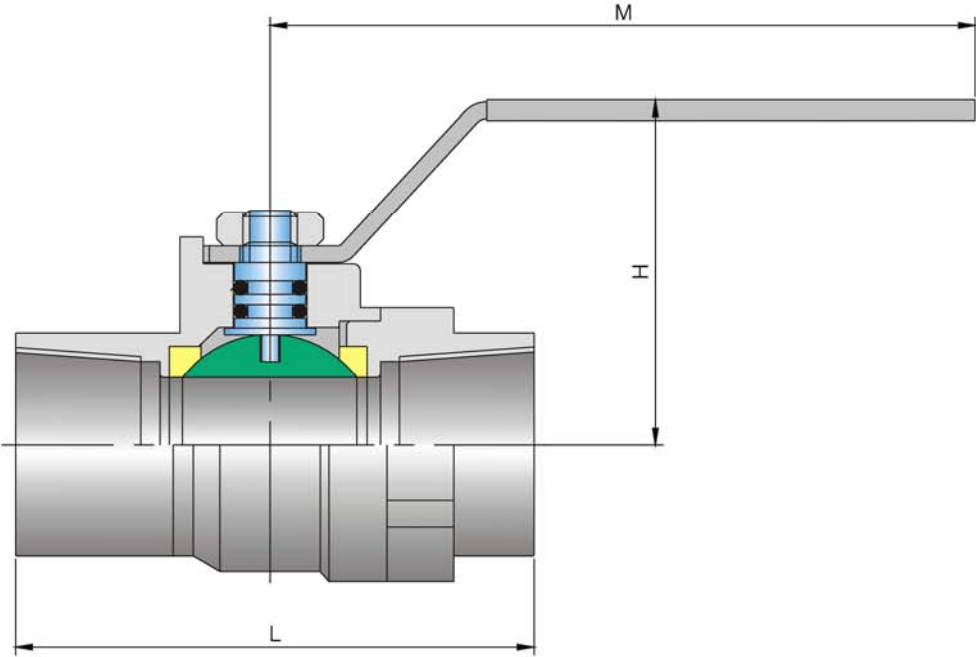
主要参数 Main Parameter Specification

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	锁紧螺母 Locking Nut	1045、Stainless Steel
2	手柄 Wrench	Stainless Steel
3	阀杆 Stem	A182-F6、F304、F304L、F316、F316L、F321、F51、F53
4	O型圈 O-ring	NBR、VITON
5	阀座 Seat	PTFE、RPTFE、PEEK、PPLL、POM、KARBATE、NYLON、MOLON、DEVLO
6	球 Ball	A105+ENP, A182 F6、F304、F304L、F316、F316L、F321、F51、F53
7	阀体 Body	A105, A182-F304, F304L、F316、F316L、F321、F51、F53
8	阀盖 Cover	A105, A182-F304, F304L、F316、F316L、F321、F51、F53

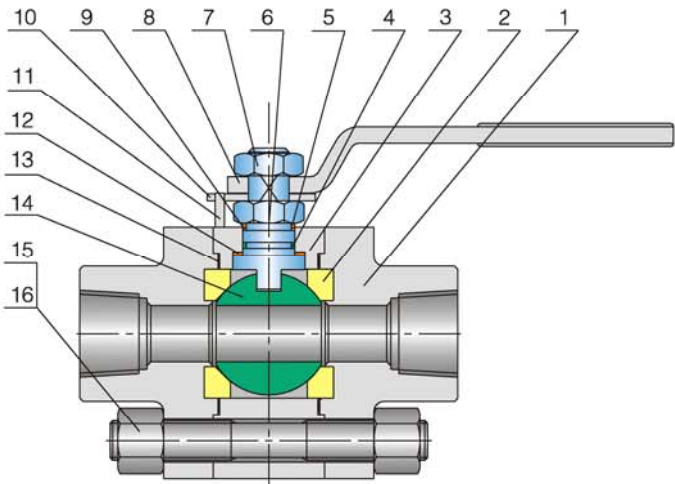
结构形式及尺寸表 Construction and Dimension



结构形式及尺寸表 Construction and Dimension

Size (in)	L		M	H	W ≈ (kg)	
	NPT	SW			NPT	SW
3/8	65	170	136	34	0.7	0.9
1/2	75	170	136	48	0.75	0.95
3/4	90	176	182	60	1	1.2
1	105	196	182	64	1.5	2.5
1 1/2	130	226	222	83	3.5	7.0
2	160	262	277	95	5.0	10

主要结构图形 Major Features



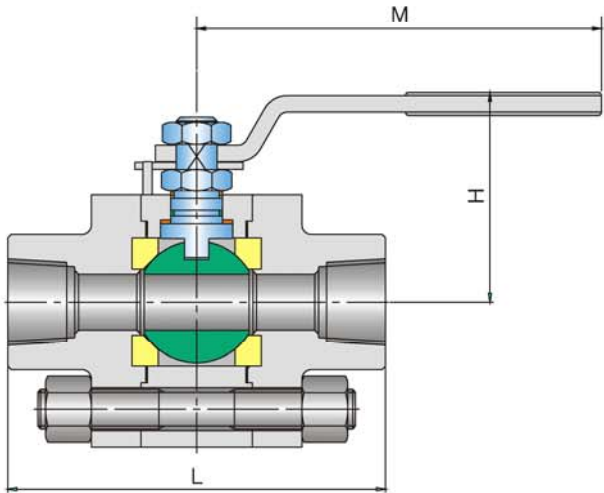
主要参数 Main Parameter Specification

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

主要材料 Main Material

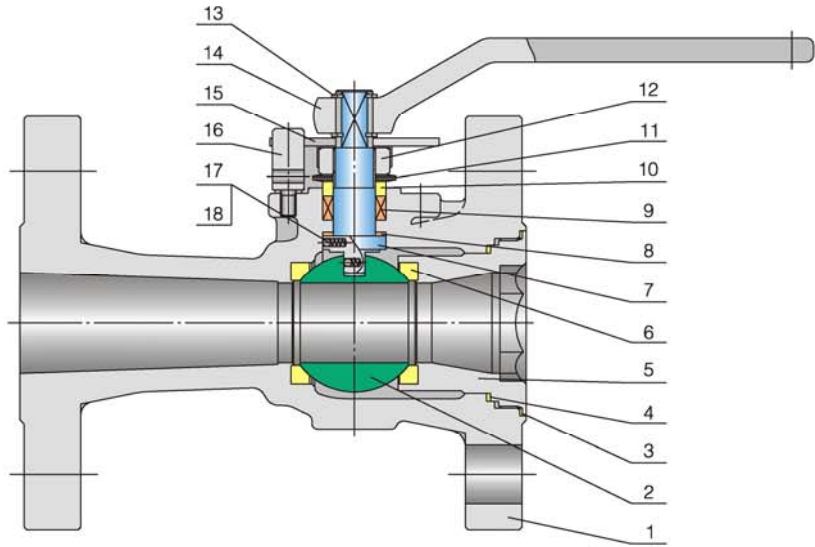
序号 No.	名称 Part Name	材料 Material
1	连接体 Adapter	A216-WCB, A351-CF8, CF8M, CF3, CF3M, CN7M, CF8C, CD4MCu, CN-3MN
2	阀座 Seat	PTFE, RPTFE, PEEK, PPLL, POM, KARBATE, NYLON, MOLON, DEVLON
3	阀体 Body	A216-WCB, A351-CF8, CF8M, CF3, CF3M, CN7M, CF8C, CD4MCu, CN-3MN
4	O形圈 O-Ring	VITON
5	填料压套 Gland	A351-CF8
6	阀杆 Stem	1045+ENP, A182-F6, F304, F304L, F316, F316L, F321, F51, F53, ALLOY-20, 4140+ENP, 17-4PH
7	锁紧螺母 Locking Nut	1045, Stainless Steel
8	手柄 Wrench	Stainless Steel
9	填料 Packing	PTFE, Graphite
10	垫片 Gasket	SS304, SS316+Flexible Graphite Spiral Wound, PTFE
11	限位 Limited	AISI 1035, Stainless Steel
12	止推垫片 Thrust Washer	PTFE, RPTFE, Stainless Steel+N
13	垫片 Gasket	AISI 1566, Stainless Steel
14	球 Ball	A105+ENP, A182 F6, F314, F304L, F316, F316L, F321, F51, F53, ALLOY-20
15	螺母 Nut	A194-2H, 8, B8M
16	螺栓 Bolt	A193 B7, B8, B8M

结构形式及尺寸表 Construction and Dimension



Class 150Lb ~ 1500Lb						
Size (in)	L		H≈	T (in)	M≈	W≈
	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

主要结构图形 Major Features



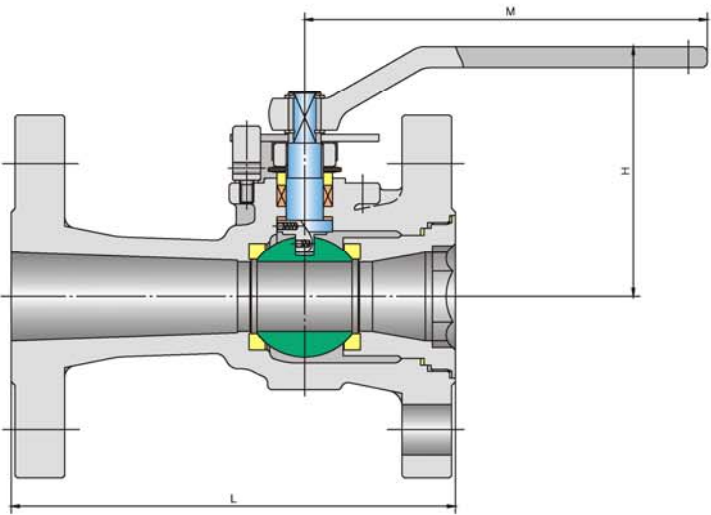
主要参数 Main Parameter Specification

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	阀体 Body	A216-WCB、WCC、A352-LCB、LCC、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
2	球 Ball	Flexible Graphite+304、Flexible Graphite+316、PTFE
3	垫片 Gasket	A105+ENP、A350 LF2+ENP、A182 F6、F304、F304L、F316、F316L、F51、F53、ALLOY-20、SS321
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	阀座 Seat	PTFE、RPTFE、PEEK、PPLL、POM、KARBATE、NYLON、MOLON、DEVLON
7	阀杆 Stem	1045+ENP、A276-304、304L、316、316L、321、ALLOY-20、4140+ENP、17-4PH、F51、F53
8	止推垫片 Thrust Washer	PTFE、RPTFE、Stainless Steel+N
9	填料 Packing	Flexible Graphite、PTFE
10	填料压套 Gland	A276-T410、304、304L、316、316L、321、ALLOY-20、F51、F53
11	填料压盖 Gland Flange	A216-WCB、A351-CF8
12	螺母 Nut	1025、Stainless Steel
13	卡簧 Snap spring	AISI 1035、65Mn
14	手柄 Wrench	A216-WCB
15	定位板 Limited Plate	1035、Stainless Steel
16	销 Pin	1035、Stainless Steel
17	小弹簧 Small Spring	SS304、SS316
18	小钢球 Small Ball	SS304、SS316

结构形式及尺寸表 Construction and Dimension



Class 150Lb

Size (in)	L			H≈	M≈	W≈
	RF	RTJ	BW			
1/2	165	178	190	96	160	5.5
2	178	191	216	118	200	6
2 1/2	191	203	241	125	250	10
3	203	216	283	147	250	14
4	229	241	305	153	350	26
6	394	406	457	204	400	54
8	457	470	521	342	750	72

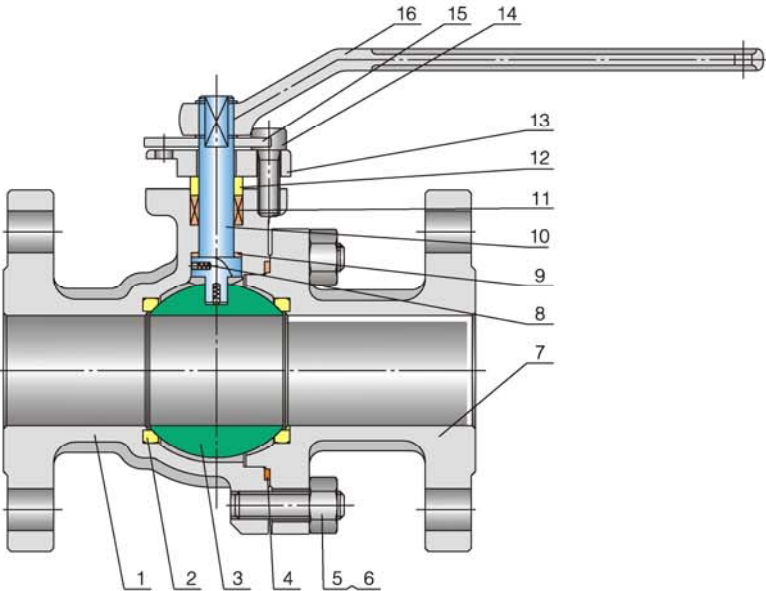
Class 300Lb

Size (in)	L			H≈	M≈	W≈
	RF	RTJ	BW			
1/2	191	203	191	100	160	8
2	216	232	216	120	200	11
2 1/2	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	502	518	521	366	-	150

■W 指RF法兰面球阀重量
The W in the table means weight of flanged end ball valve.

二片式浮动铸钢球阀
2PC Floating Cast Ball Valve

主要结构图形 Major Features



主要参数 Main Parameter Specification

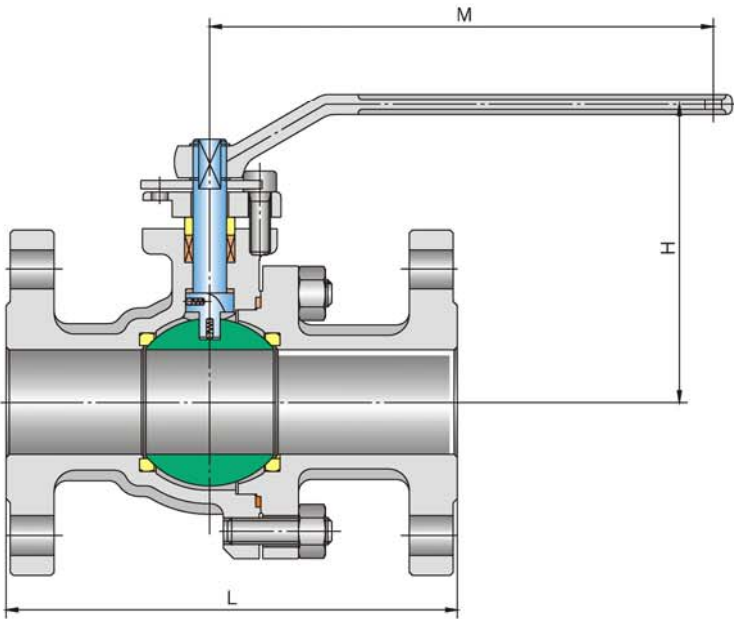
设计和制造 Design and Manufacture: API 6D、ASME B16.34、API 608、MSS-SP-72(BS5351)
结构长度尺寸 End to End Dimension: API 6D、ASME B16.10
法兰连接尺寸 Flange Connection Dimension: ASME B16.5
对焊端尺寸 BW Connection Dimension: ASME B16.25
检查和试验 Test and Inspection: API 6D、API 598
防火设计 Fire-safe Design: API 607/6Fa
防静电设计和防爆阀杆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

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、PPLL、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	垫片 Gasket	Flexble Graphite+304, Flexble Graphite+316, PTFE
5	螺柱 Bolt	A194-2H、2MH、8、8M
6	螺母 Nut	A193-B7、B7M、B8、B8M
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	止推垫片 Thrust Washer	PTFE、RPTFE、Stainless Steel+N
10	阀杆 Stem	A276-T410、304、304L、316、316L、321, ALLOY-20, 1045+ENP, A182-F51、F53, 4140+ENP, 17-4PH
11	填料 Packing	Flexible Graphite, PTFE
12	填料压套 Gland	A276-304、304L、316、316L、321, ALLOY-20, A182-F51、F53
13	填料压盖 Gland Flange	A216-WCB、A351-CF8
14	螺钉 Screw	A193-B7, B8
15	定位板 Limited Plate	1025, Stainless Steel
16	手柄 Wrench	A216-WCB

二片式浮动铸钢球阀
2PC Floating Cast Ball Valve

结构形式及尺寸表 Construction and Dimension



Class 150Lb

Size (in)	L			H≈	M≈	W≈
	RF	RTJ	BW			
1/2 × 3/8 ㊟	108	—	140	79	140	2.5
1/2	108	—	140	79	140	2.5
3/4 × 1/2 ㊟	117	—	152	79	140	3
3/4	117	—	152	96	160	3
1 × 3/4 ㊟	127	140	165	96	160	4.5
1 × 1/2 ㊟	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 ㊟	165	178	191	96	160	5.5
1 1/2 × 1 1/4 ㊟	165	178	191	102	180	5.5
1 1/2	165	178	191	118	200	6.5
2 × 1 1/4 ㊟	178	191	216	102	180	5.7
2 × 1 1/2 ㊟	178	191	216	118	200	6
2	178	191	216	147	250	9
2 1/2	191	203	241	152	300	14
3 × 2 ㊟	203	216	283	147	250	14
3 × 2 1/2 ㊟	203	216	283	152	300	16
3	203	216	283	153	350	19
4 × 2 1/2 ㊟	229	241	305	152	300	23
4 × 3 ㊟	229	241	305	153	350	26
4	229	241	305	204	400	32
6 × 3 ㊟	267	279	403	153	350	32

㊟规则孔 Regular bore; ㊟缩孔 Reduce bore; ※齿轮箱操作。※ Gear operation.
■W 指RF法兰面球阀重量 The W in the table means weight of flanged end ball valve.

Size (in)	L			H≈	M≈	W≈
	RF	RTJ	BW			
6 × 4 ㊟	267	279	403	204	400	57
6	394	406	457	342	750	67
8 × 4 ㊟	292	305	419	204	400	65
8 × 6 ㊟	292	305	419	342	750	75
8	457	470	521	456	300※	130
10 × 6 ㊟	330	343	457	342	750	—
10 × 8 ㊟	330	343	457	456	300※	145
10	533	546	559	511	400※	250
12 × 10 ㊟	610	622	635	511	400※	290
14 × 10 ㊟	686	699	762	511	400※	320
16 × 10 ㊟	762	775	838	511	400※	360
12	610	622	635	517	600※	470
14 × 12 ㊟	686	699	762	517	600※	490
16 × 12 ㊟	762	775	838	517	600※	520
18 × 12 ㊟	864	876	914	517	600※	535
14	686	699	762	569	800※	500
16 × 14 ㊟	762	775	838	569	800※	541
18 × 14 ㊟	864	876	914	569	800※	589
20 × 14 ㊟	914	927	991	569	800※	620
16	762	775	838	680	800※	810
18 × 16 ㊟	864	876	914	680	800※	850
18	864	876	914	692	800※	920

二片式浮动铸钢球阀

2PC Floating Cast Ball Valve

结构形式及尺寸表 Construction and Dimension

Class 300Lb							mm
Size (in)	L			H≈	M≈	W≈	
	RF	RTJ	BW				
1/2 × 3/8 ㊟	140	151	140	79	140	3	
1/2	140	151	140	79	140	3.5	
3/4 × 1/2 ㊟	152	165	152	79	140	4	
3/4	152	165	152	90	160	4	
1 × 3/4 ㊟	165	178	165	90	160	4.5	
1 × 1/2 ㊟	165	178	165	79	140	3.2	
1	165	178	165	94	160	5	
1 1/4	178	191	178	102	160	8	
1 1/2 × 1 ㊟	191	203	191	94	160	5.5	
1 1/2 × 1 1/4 ㊟	191	203	191	102	160	5.5	
1 1/2	191	203	191	120	200	11	
2 × 1 1/4 ㊟	216	232	216	102	160	5.7	
2 × 1 1/2 ㊟	216	232	216	120	200	6	
2	216	232	216	142	250	13	
2 1/2	241	257	241	158	300	25	
3 × 2 ㊟	283	298	283	147	250	14	
3 × 2 1/2 ㊟	283	298	283	158	300	28	
3	283	298	283	170	350	30	
4 × 2 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	

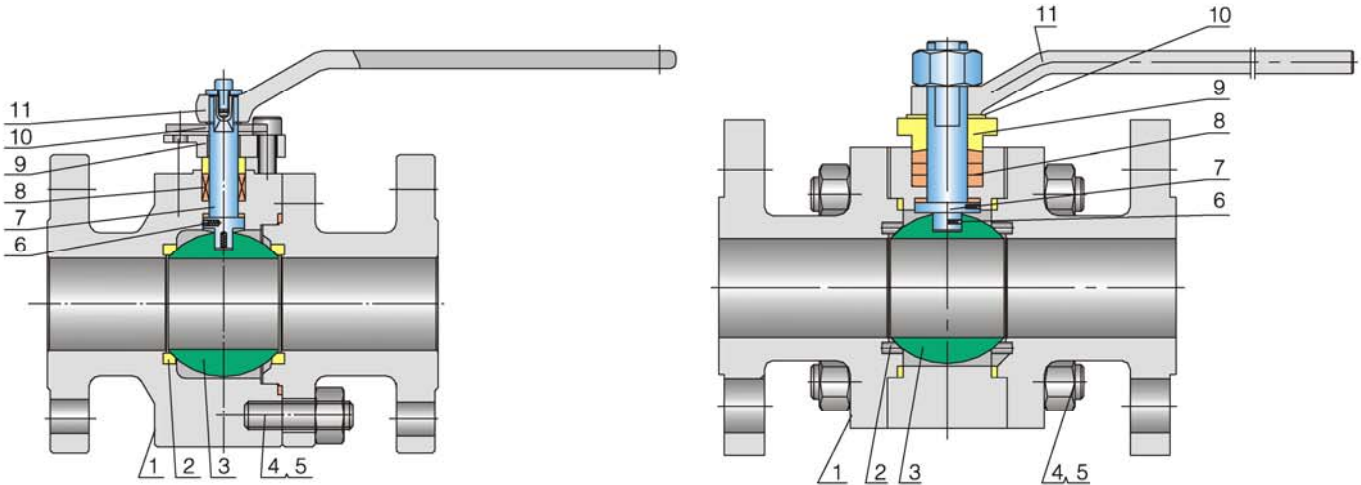
Class 600Lb							mm
Size (in)	L			H≈	M≈	W≈	
	RF	RTJ	BW				
1/2 × 3/8 ㊟	165	163	165	85	160	4	
1/2	165	163	165	85	160	4.5	
3/4 × 1/2 ㊟	191	191	191	85	160	6	
3/4	191	191	191	93	200	7	
1 × 3/4 ㊟	216	216	216	93	200	8	
1 × 1/2 ㊟	216	216	216	85	160	6.6	
1	216	216	216	99	200	10	
1 1/4	229	229	229	100	200	15	
1 1/2 × 1 ㊟	241	241	241	99	200	13	
1 1/2 × 1 1/4 ㊟	241	241	241	100	200	17	
1 1/2	241	241	241	117	200	20	

㊟规则孔 Regular bore; ㊟缩孔 Reduce bore; ※齿轮箱操作。※ Gear operation.
■W 指RF法兰面球阀重量 The W in the table means weight of flanged end ball valve.

二片式、三片式浮动锻钢球阀

2PC/3PC Floating Forged Ball Valve

主要结构图形 Major Features



主要参数 Main Parameter Specification

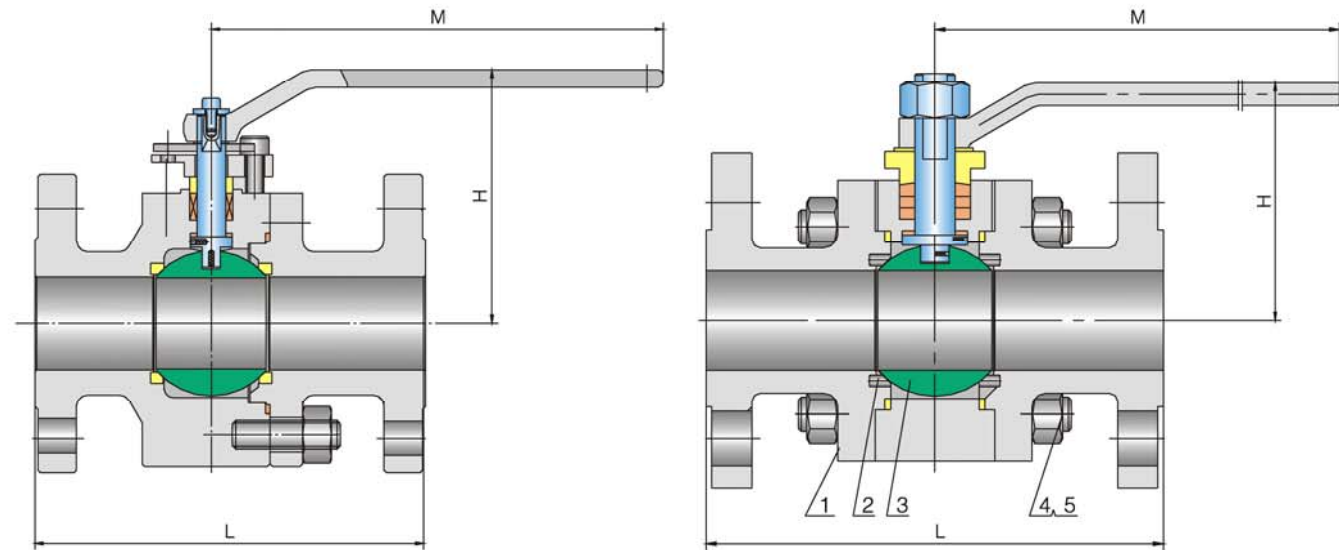
设计和制造 Design and Manufacture: API 6D、ASME B16.34(BS5351)、API 608、MSS-SP-72
结构长度尺寸 End to End Dimension: API 6D、ASME B16.10
法兰连接尺寸 Flange Connection Dimension: ASME B16.5
对焊端尺寸 BW Connection Dimension: ASME B16.25
检查和试验 Test and Inspection: API 6D、API 598
防火设计 Fire-safe Design: API 607/6Fa
防静电设计和防爆阀杆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

主要材料 Main Material

序号 No.	名称 Part Name	材料 Material
1	阀体 Body	A105, A350-LF2, A182-F304、F304L、F316、F316L、F51、F53
2	阀座 Seat	PTFE、RPTFE、PPL、PEEK、NYLON
3	球 Ball	A105+ENP, A351 LF2、F6、F304、F316、F51、F53
4	螺柱 Stud	ASTM A193 B7、B8
5	螺母 Nut	ASTM A194 2H、8
6	弹簧 Spring	SS304、SS316
7	阀杆 Stem	1045+ENP、ASTM A182 F6、F304、F316、F51、F53
8	填料 Packing	Flexible Graphite、PTFE
9	压板 Gland	ASTM A216 WCB、ASTM A351 CF8
10	限位件 Limited Plate	1025、Stainless Steel
11	手柄 Wrench	ASTM A216 WCB

二片式、三片式浮动锻钢球阀
2PC/3PC Floating Forged Ball Valve

结构形式及尺寸表 Construction and Dimension



Class 150Lb

Size (in)	L			H _≈	M _≈	W _≈ (kg)
	RF	RTJ	BW			
1/2 × 3/8 ®	108	–	140	79	140	3.0
1/2	108	–	140	79	140	3.0
3/4 × 1/2 ®	117	–	152	79	140	3.6
3/4	117	–	152	96	160	3.6
1 × 3/4 ©	127	140	165	96	160	5.4
1 × 1/2 ®	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 ®	165	178	191	96	160	7.0
1 1/2 × 1 1/4 ©	165	178	191	102	180	7.0
1 1/2	165	178	191	118	200	8.5
2 × 1 1/4 ®	178	191	216	102	180	9.0
2 × 1 1/2 ©	178	191	216	118	200	10.5
2	178	191	216	147	250	12
2 1/2	191	203	241	152	300	17

④规则孔 Regular bore; ⑤缩孔 Reduce bore; ※齿轮箱操作。※ Gear operation.
 ■W 指RF法兰面球阀重量 The W in the table means weight of therefore end ball valve.

二片式、三片式浮动锻钢球阀
2PC/3PC Floating Forged Ball Valve

结构形式及尺寸表 Construction and Dimension

Class 300Lb

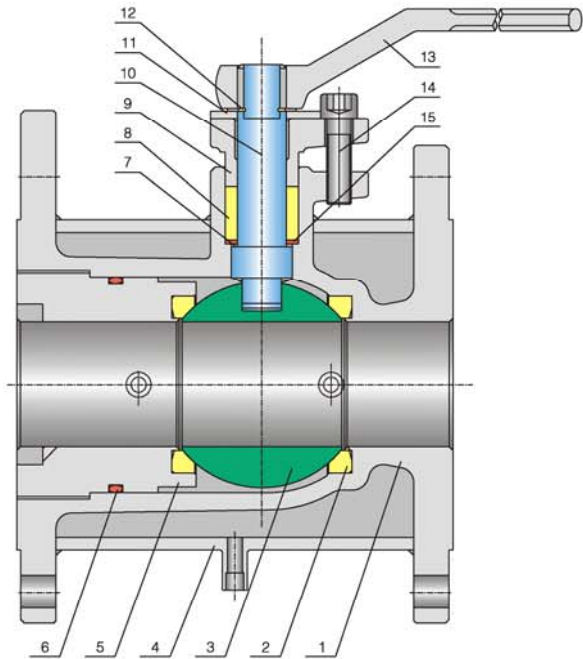
Size (in)	L			H≈	M≈	W≈ (kg)
	RF	RTJ	BW			
1/2 × 3/8 ®	140	151	140	79	140	3.6
1/2	140	151	140	79	140	4.2
3/4 × 1/2 ®	152	165	152	79	140	5
3/4	152	165	152	96	160	5
1 × 3/4 ©	165	178	165	96	160	5.5
1 × 1/2 ®	165	178	165	79	140	4
1	165	178	165	100	160	6
1 1/4	178	191	178	102	200	10
1 1/2 × 1 ®	191	203	191	100	160	6.6
1 1/2 × 1 1/4 ©	191	203	191	102	200	6.6
1 1/2	191	203	191	120	200	3
2 × 1 1/4 ®	216	232	216	102	200	6.8
2 × 1 1/2 ©	216	232	216	120	200	7.5
2	216	232	216	147	250	15.5
2 1/2	241	257	241	152	300	30
3 × 2	283	298	283	147	250	17
3 × 2 1/2 ©	283	298	283	152	300	34
3	283	298	283	163	350	36
4 × 2 1/2 ®	305	321	305	152	300	40
4 × 3 ©	305	321	305	163	350	46
4	305	321	305	210	400	54
6 × 3 ®	403	419	403	163	350	58
6 × 4 ©	403	419	403	210	400	68
6	403	419	403	366	800	108
8 × 4 ®	502	518	521	210	400	90
8 × 6 ©	502	518	521	366	800	120
8	502	518	521	440	400	242

◎规则孔 Regular bore; ⑤ 缩孔 Reduce bore; ※ 齿轮箱操作。※ Gear operation.
■W 指 RF 法兰面球阀重量 The W in the table means weight of therefore end ball valve.

Class 600Lb

Size (in)	L			H ≈	M ≈	W ≈ (kg)
	RF	RTJ	BW			
1/2 × 3/8 ®	165	163	165	85	160	4.8
1/2	165	163	165	85	160	5.5
3/4 × 1/2 ®	191	191	191	85	160	7.5
3/4	191	191	191	93	200	8.5
1 × 3/4 ©	216	216	216	93	200	9.5
1 × 1/2 ®	216	216	216	85	160	8
1	216	216	216	99	200	12
1 1/4	229	229	229	100	200	18
1 1/2 × 1 ®	241	241	241	99	200	15.5
1 1/2 × 1 1/4 ©	241	241	241	100	200	20.5
1 1/2	241	241	241	117	200	24
2 × 1 1/4 ®	292	295	292	100	200	25
2 × 1 1/2 ©	292	295	292	117	200	33.5
2	292	295	292	180	350	32.5
2 1/2	330	333	330	210	400	54
3 × 2	356	359	356	180	350	40
3 × 2 1/2 ©	356	359	356	210	400	61
3	356	359	356	244	700	67
4 × 2 1/2 ®	432	435	432	210	400	70
4 × 3 ©	432	435	432	244	700	75.5
4	432	435	432	265	800	114

主要结构图形 Major Features



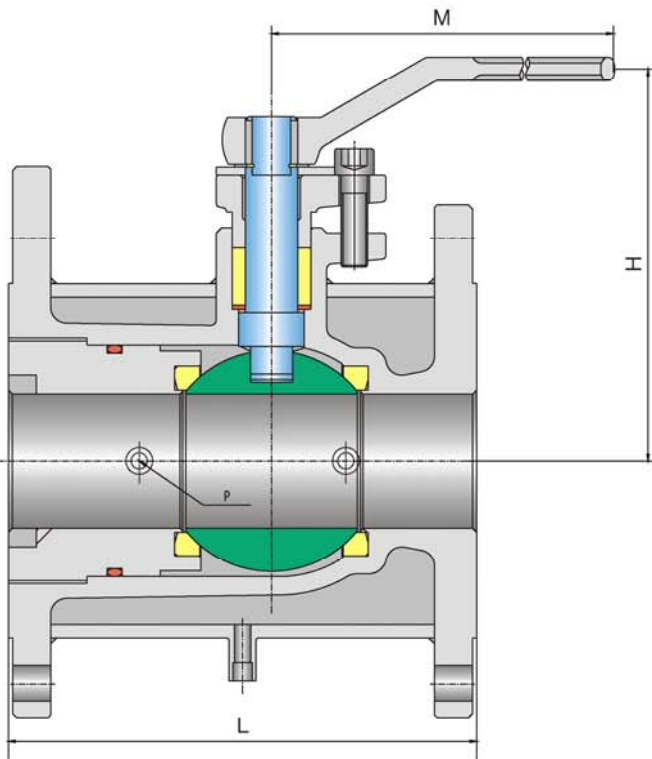
主要参数 Main Parameter Specification

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
防火设计 Fire-safe Design: API 607/6Fa

主要材料Main Material

序号 No.	名称 Part Name	材料 Material
	阀体 Body	A216-WCB、WCC、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
2	阀座 Seat	PTFE、RPTFE、PEEK、PPL、POM、KARBATE、NYLON、MOLON、DEVLON
	球 Ball	A105+ENP、A182 F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20
4	夹套管 Insulating Jacket	1020、SS304
	阀盖 Cover	A216-WCB、WCC、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
6	O型圈 O-ring	1025、SS304
	止退垫 Thrust Washer	PTFE/RPTFE
8	填料 Packing	PTFE、Graphite
	填料压盖 Gland Flange	A216-WCB、A351-CF8
10	阀杆 Stem	A276-T410、304、304L、316、316L、321、ALLOY-20、1045+ENP、17-4PH、4140+ENP、F51、F53
	定位板 Limited Plate	1035、Stainles Steel
12	卡簧 Snap Spring	AISI 1035、65Mn
	手柄 Wrench	A216 WCB
14	螺钉 Screw	AISI 1035
	填料垫 Packing Washer	A276-T410、304、304L、316、316L、ALLOY-20、SS321、F51、F53

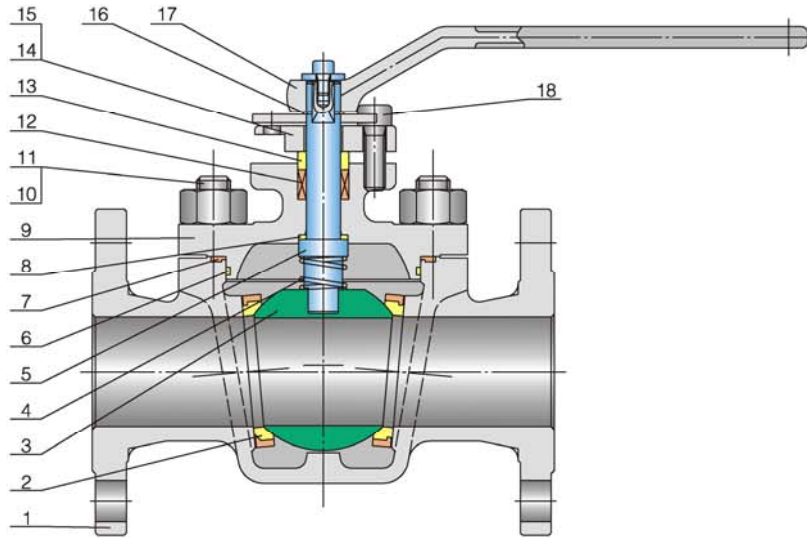
结构形式及尺寸表 Construction and Dimension



Class 150Lb						mm
Size (in)	Flange Size (in)	L (RF)	H≈	M≈	W≈	
1/2	1 1/4	108	79	140	3.8	
3/4	1 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						mm
Size (in)	Flange Size (in)	L (RF)	H≈	M≈	W≈	
1/2	1 1/4	140	79	140	4.5	
3/4	1 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	

主要结构图形 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

法兰连接尺寸 Flange Connection Dimension: ASME B16.5

对焊端连接尺寸 BW Connection Dimension: ASME B16.25

检查和试验 Test and Inspection: API 6D、API 598

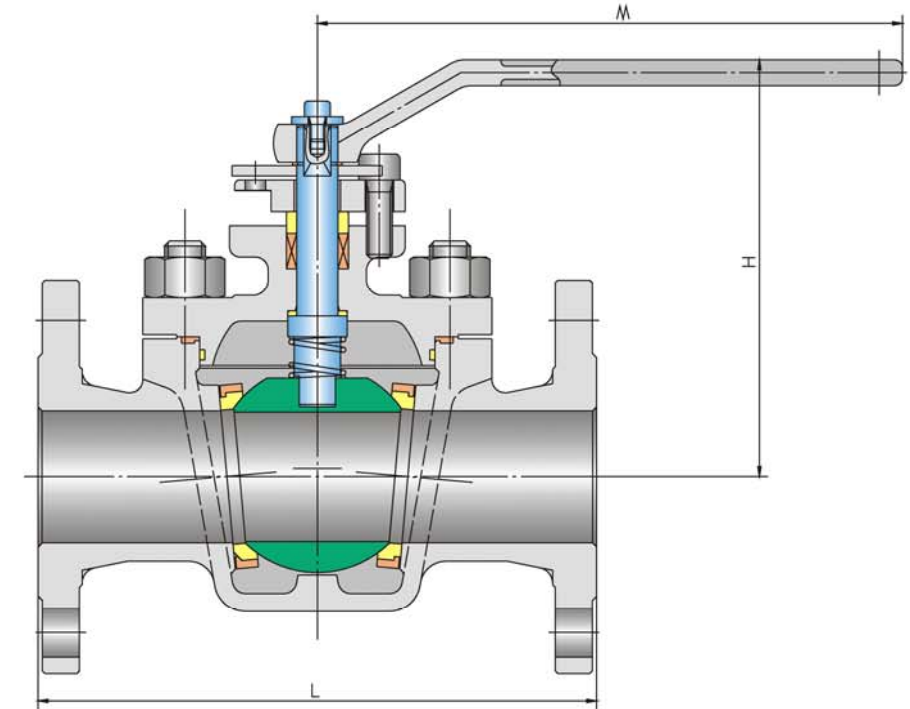
防火设计 Fire-safe Design: API 607/6Fa

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、LCC、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
2	阀座 Seat	PTFE、RPTFE、PEEK、PPLL、POM、KARBATE、NYLON、MOLON、DEVLON
3	球 Ball	A105+ENP、A182 F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20
4	弹簧 Spring	SS304、Inconel
5	阀杆 Stem	A1045+ENP、A182 F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20、4140+ENP、17-4PH
6	O形圈 O-Ring	NBR、VITON
7	垫片 Gasket	SS304、SS316+Flexible Graphite Spiral Wound
8	阀盖 Cover	A216-WCB、WCC、A352-LCB、LCC、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
9	螺栓 Bolt	A193-B7、B7M、B8、B8M
10	螺母 Nut	A194-2H、2MH、8、8M
11	垫圈 Washer	ANSI 1566
12	填料 Packing	PTFE、Graphite
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、A351-CF8
15	定位板 Limited Plate	1035、Stainless Steel
16	垫片 Washer	AISI 1566、Stainless Steel
17	手柄 Wrench	A216 WCB
18	螺栓 Bolt	A193-B7、B7M、B8、B8M

结构形式及尺寸表 Construction and Dimension



Class 150Lb

Size (in)	L		H≈	M≈	W≈ (kg)
	RF	BW			
1/2	108	140	91	140	2.5
3/4 × 1/2 Ⓢ	117	152	91	140	3.2
3/4	152	152	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.

结构形式及尺寸表 Construction and Dimension

Class 300Lb

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

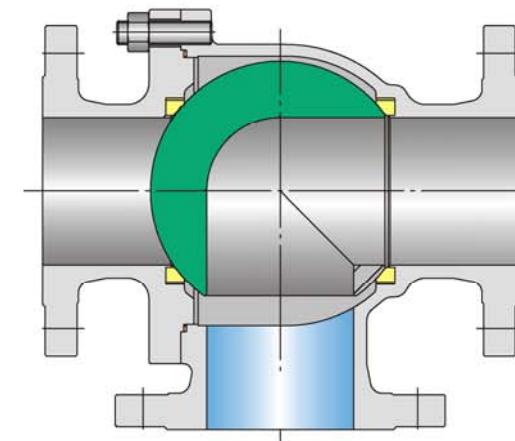
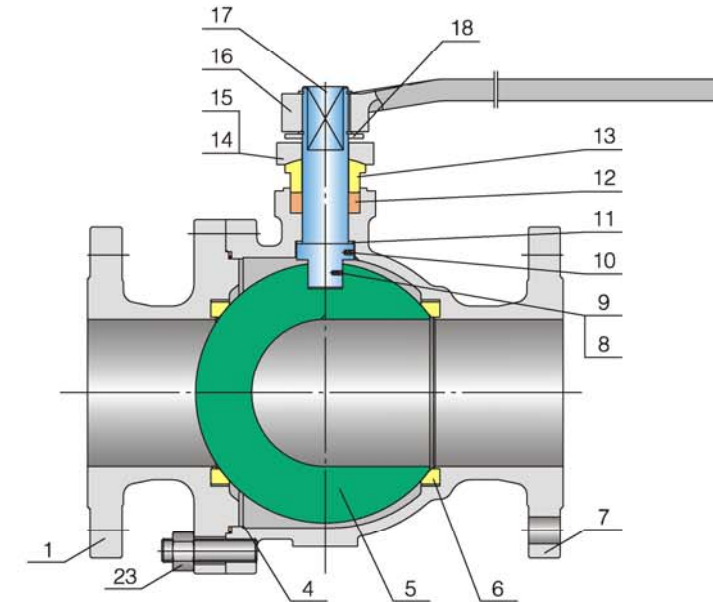
Class 600Lb

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

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 therefore end ball valve.

主要结构图形 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

法兰连接尺寸 Flange Connection Dimension: ASME B16.5

对焊端连接尺寸 BW Connection Dimension: ASME B16.25

检查和试验 Test and Inspection: API 6D、API 598

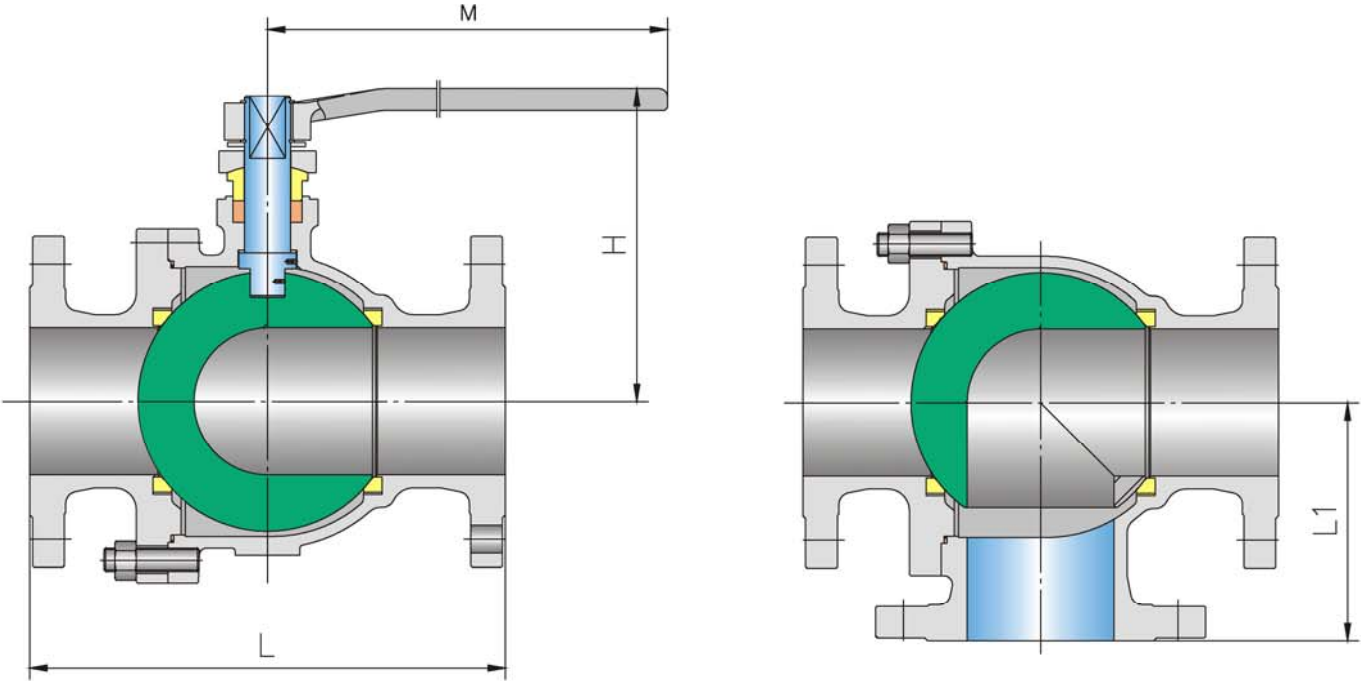
防火设计 Fire-safe Design: API 607/6Fa

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、2MH、8、8M
3	螺母 Nut	A193-B7、B7M、B8、B8M
4	垫片 Gasket	Flexible Graphite+304、Flexble Graphite+316、PTFE
5	球 Ball	A105+ENP、A350 LF2+ENP、A182 F6、F304、F304L、F316、F316L、F51、F53、 ALLOY-20
6	阀座 Seat	PTFE、RPTFE、PEEK、PPLL、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+304、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 Limited Plated	1025、Stainless Steel

结构形式及尺寸表 Construction and Dimension

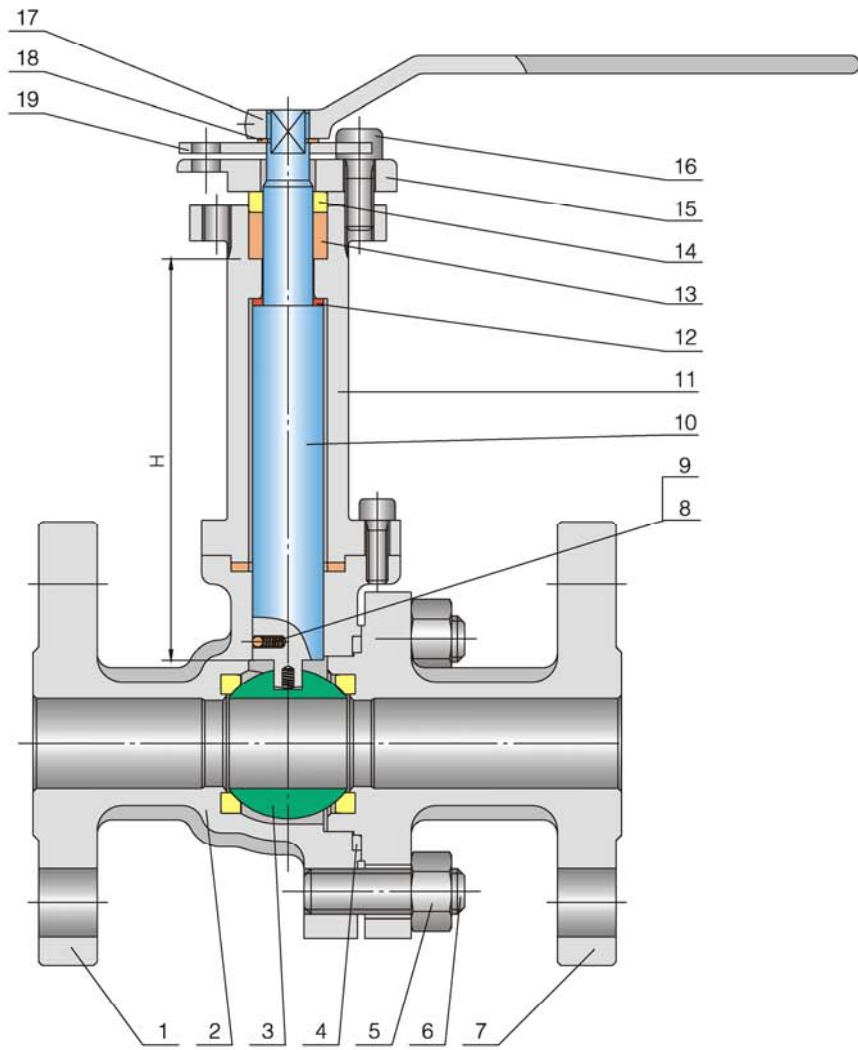


Class 150Lb						mm
Size (in)	L	L1	H≈	M≈	W≈ (kg)	
1/2	140	70	64	140	3.5	
3/4	165	83	84	160	5.1	
1	165	83	84	160	6.7	
1 1/2	250	125	152	200	9.9	
2	260	130	157	250	14	
2 1/2	320	160	183	300	21	
3	320	160	183	350	27	
4	370	185	195	400	45	
6	510	255	355	800	127	
8	580	290	430	—	227	
10	670	335	475	—	315	
12	720	360	550	—	357	

Class 300Lb						mm
Size (in)	L	L1	H≈	M≈	W≈ (kg)	
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 therefore end ball valve.

主要结构图形 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: API 6D、ASME B16.10
法兰连接尺寸 Flange Connection Dimension: ASME B16.5, NPS≥26" Per as ASME B16.47
对焊端连接尺寸 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

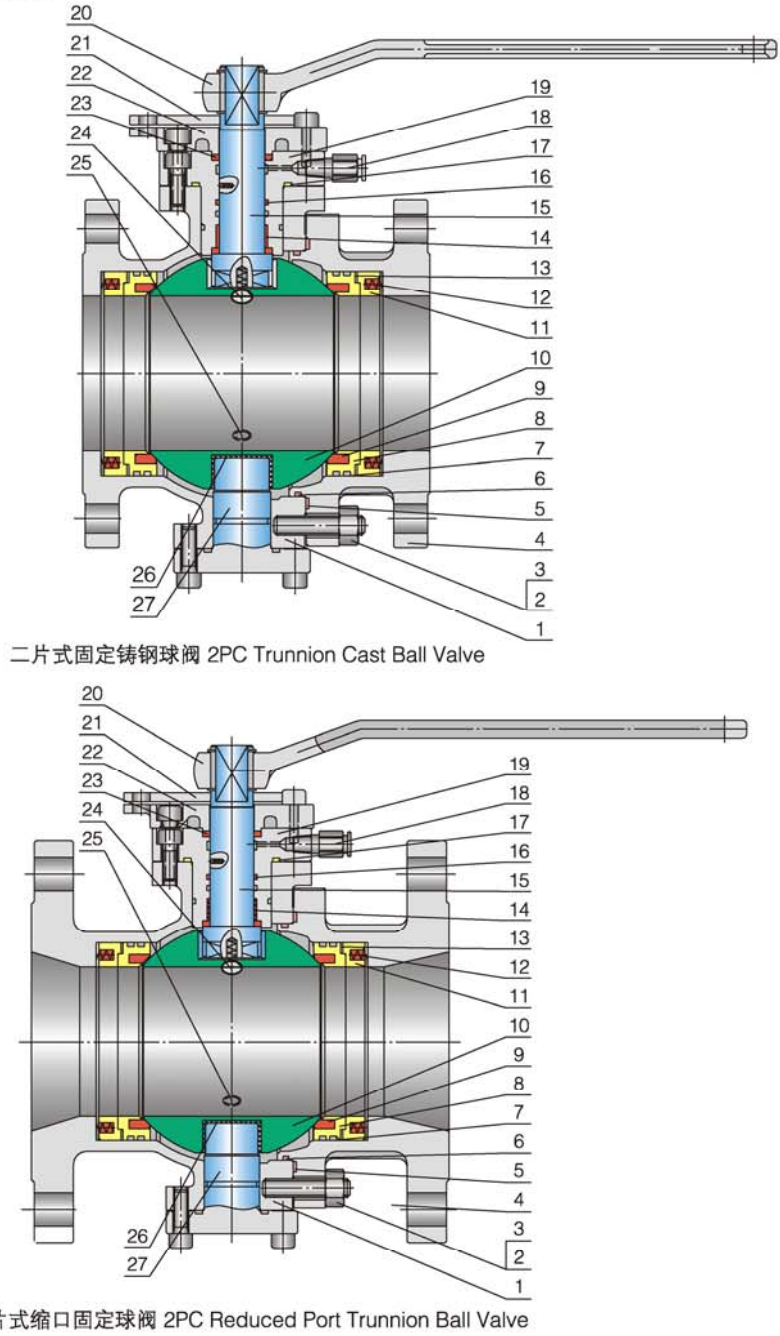
序号 No.	名称 Part Name	材料 Material
1	左阀体 Left Body	-46℃: A352-LCB、LCC, -101℃: LC3, -196℃: A351-CF8、CF8M
2	阀座 Seat	PTFE、RPTFE、PCTFE
3	球 Ball	A182-F304、F316
4	垫片 Gasket	Flexible Graphite+304、Flexble Graphite+316、PTFE
5	螺母 Nut	A194-4、7、7M, A194-8、8M
6	螺栓 Bolt	A320-L7、L7M, A193-B8、B8M
7	右阀体 Right Body	A352-LCB、LCC、LC3, A351-CF8、CF8M
8	小弹簧 Small Spring	SS304、SS316
9	小钢球 Small Ball	SS304、SS316
10	阀杆 Stem	A182 F6、F304、F316
11	加长颈阀盖 Extend Cap	A352-LCB、LCC、LC3, A351-CF8、CF8M
12	垫片 Gasket	PTFE
13	填料 Packing	Flexible Graphite+304、PTFE
14	填料压套 Gland	A182 F6、F304、F316
15	填料压盖 Gland Flange	A352-LCB、A351-CF8
16	螺钉 Screw	1035、Stainless Steel
17	手柄 Wrench	A216-WCB
18	卡簧 Snap Spring	AISI 1566
19	定位板 Limited Plated	1025、Stainless Steel

结构形式及尺寸表 Construction and Dimension

Size (in)	H			Size (in)	H		
	-46℃	-101℃	-196℃		-46℃	-101℃	-196℃
1/2	90	110	130	8	140	170	220
3/4	100	110	140	10	150	180	240
1	100	120	150	12	150	180	240
1 1/2	110	130	160	14	160	190	250
2	110	130	170	16	160	190	250
3	120	150	190	18	160	190	250
4	130	160	200	20	170	200	260
6	140	170	220	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.

主要结构图形 Major Features



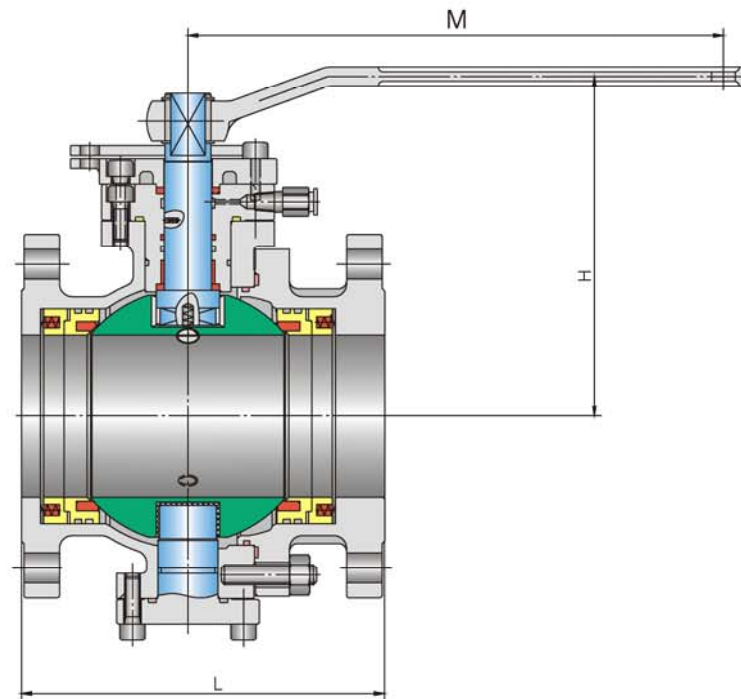
主要参数 Main Parameter Specification

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 Lefe Body	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
2	螺母 Nut	A194-2H、2HM、8、8M
3	螺栓 Bolt	A193-B7、B7M、B8、B8M
4	右阀体 Right Body	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
5	垫片 Gasket	SS304、SS316+Flexible Graphite Spiral Wound
6	O型圈 O-Ring	NBR、VITON
7	O型圈 O-Ring	NBR、VITON
8	阀座圈 Seat Ring	A105+ENP、A182-F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20
9	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
10	球 Ball	A105+ENP、A182-F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20
11	压环 Compression ring	A105、F304、F316、F6、F321、F51、F53
12	弹簧 Spring	SS304、Inconel、1566+ENP
13	密封圈 Sealing Ring	Flexble Graphite
14	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
15	阀杆 Stem	A1045+ENP、A182-F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20、4140+ENP、17-4PH
16	O型圈 O-Ring	NBR、VITON
17	密封圈 Sealing Ring	SS304、SS316+Flexible Graphite Spiral Wound
18	注油阀 Oil Cup	1025、SS304
19	连接盘 Connecting Plate	1025、A216-WCB、A351 CF8
20	手柄 Lever	A216-WCB+1020
21	定位板 Limited Plated	1035、Stainless Steel
22	压板 Gland flanged	A105+ENP、A182-F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20
23	填料 Packing	Flexible Graphite
24、25	丝堵和放泄阀 Drain Valve and Plug	A1025、SS304、SS304L、SS316、SS316L、SS321、ALLOY-20、F51、F53
26	垫圈 Adujsting Ring	PTFE、1045+RTPFE、Stainless Steel+RTPFE
27	固定轴 Trunnion	A1045+ENP、A182-F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20、4140+ENP、17-4PH

结构形式及尺寸表 Construction and Dimension



Size (in)	L			H≈	H1≈	M≈	W≈
	RF	RTJ	BW				
2	178	191	216	168	83	250	10
3 × 2 [Ⓔ]	203	216	283	168	83	250	11.7
2 1/2	191	203	241	175	102	300	14
3 × 2 1/2 [Ⓔ]	203	216	283	175	102	300	15
4 × 2 1/2 [Ⓔ]	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

Ⓔ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 flanged end ball valve.

结构形式及尺寸表 Construction and Dimension

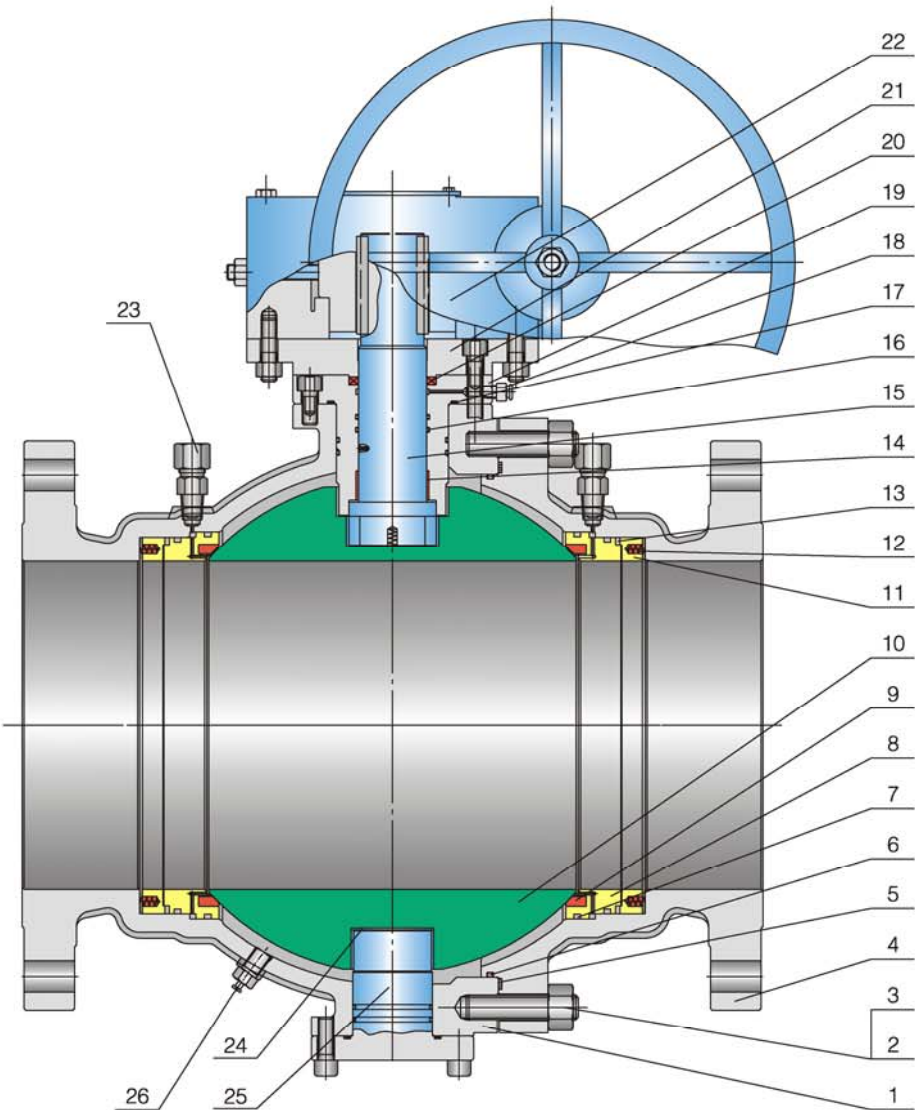
Size (in)	L			H≈	H1≈	M≈	W≈
	RF	RTJ	BW				
2	292	295	292	195	100	500	33
3 × 2 [Ⓔ]	356	359	356	195	100	500	37
2 1/2	330	333	330	220	115	600	47
3 × 2 1/2 [Ⓔ]	356	359	356	220	115	600	48.8
4 × 2 1/2 [Ⓔ]	432	435	432	220	115	600	57.5
3	356	359	356	247	126	700	58
4 × 3 [Ⓔ]	432	435	432	247	126	700	72
6 × 3 [Ⓔ]	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

Ⓔ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 flanged end ball valve.

Size (in)	L			H≈	H1≈	M≈	W≈
	RF	RTJ	BW				
2	368	371	368	237	122	800	40
3 × 2 [Ⓔ]	470	473	470	237	122	800	50
2 1/2	419	422	419	261	148	900	64
3 × 2 1/2 [Ⓔ]	470	473	470	261	148	900	70
4 × 2 1/2 [Ⓔ]	546	549	546	261	148	900	86
3	470	473	470	269	163	1000	95
4 × 3 [Ⓔ]	546	549	546	269	163	1000	108
6 × 3 [Ⓔ]	705	711	705	269	163	1000	160
4	546	549	546	297	173	—	180
6 × 4 [Ⓔ]	705	711	705	297	173	—	225
8 × 4 [Ⓔ]	832	841	832	297	173	—	297

Ⓔ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 flanged end ball valve.

主要结构图形 Major Features



主要参数 Main Parameter Specification

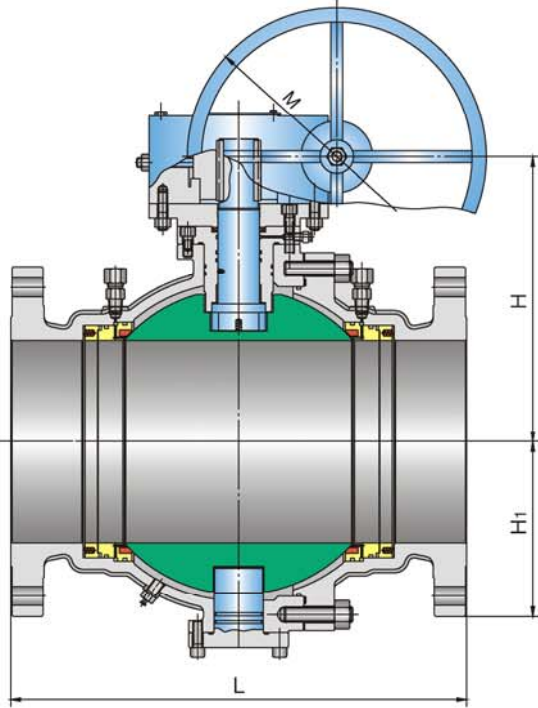
设计和制造 Design and Manufacture: API 6D、ASME B16.34(BS5351)、API 608、MSS-SP-72
结构长度尺寸 End to End Dimension: API 6D、ASME B16.10
法兰连接尺寸 Flange Connection Dimension: ASME B16.5, NPS≥26" Per as ASME B16.47
对焊端尺寸 BW Connection Dimension: ASME B16.25
检查和试验 Test and Inspection: API 6D、API 598
防火设计 Fire-safe Design: 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	左阀体 Lefe Body	A216-WCB、WCC, A352-LCB, A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
2	螺母 Nut	A194-2H、2HM、8、8M
3	螺柱 Bolt	A193-B7、B7M、B8、B8M
4	右阀体 Right Body	A216-WCB、WCC, A352-LCB, A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
5	垫片 Gasket	SS304、SS316+Flexible Graphite Spiral Wound
6	O型圈 O-Ring	NBR、VITON
7	O型圈 O-Ring	VITON
8	阀座圈 Seat Ring	A105+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20
9	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
10	球 Ball	A105+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20
11	压环 Compression ring	A105、F304、F316、F6、F321、F51、F53
12	弹簧 Spring	SS304, Inconel, 1566+ENP
13	密封圈 Sealing Ring	Flexble Graphite
14	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
15	阀杆 Stem	1045+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20、4140+ENP、17-4PH
16	O型圈 O-Ring	VITON
17	密封圈 Sealing Ring	SS304、SS316+Flexible Graphite Spiral Wound
18	注油阀 Oil Cup	1025、SS304
19	填料箱 Stuffing Box	A105+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20
20	填料 Packing	Flexible Graphite
21	连接盘 Connecting Plate	1025、A216-WCB、A351 CF8
22	齿轮 Gear	
23	注脂阀 Grease fitting	1025、SS304、SS316、F51、F53
24	垫圈 Adujsting Ring	PTFE、1045+RTPFE、Stainless Steel+RTPFE
25	固定轴 Trunnion	1045+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20、4140+ENP、17-4PH
26	丝堵和放泄阀 Drain Valve and Plug	1025, SS304、SS316、F51、F53、ALLOY-20

二片式固定铸钢球阀
2PC Trunnion Cast Ball Valve

结构形式及尺寸表 Construction and Dimension



Class 150Lbmm							
Size (in)	L			H≈	H1≈	M≈	W≈
	RF	RTJ	BW				
6	394	406	457	280	193	300	74
8×6Ⓔ	457	470	521	280	193	300	83
10×6Ⓔ	533	546	559	280	193	300	95.2
8	457	470	521	345	217	300	111
10×8Ⓔ	533	546	559	345	217	300	123.4
12×8Ⓔ	610	622	635	345	217	300	142
10	533	546	559	395	270	300	217
12×10Ⓔ	610	622	635	395	270	300	235
14×10Ⓔ	686	699	762	395	270	300	253
16×10Ⓔ	762	775	838	395	270	300	277
12	610	622	635	527	323	300	385
14×12Ⓔ	686	699	762	527	323	300	402
16×12Ⓔ	762	775	838	527	323	300	426
18×12Ⓔ	864	876	914	527	323	300	450
14	686	699	762	570	355	400	457
16×14Ⓔ	762	775	838	570	355	400	481
18×14Ⓔ	864	876	914	570	355	400	505
20×14Ⓔ	914	927	991	570	355	400	536
16	762	775	838	498	398	450	723
18×16Ⓔ	864	876	914	498	398	450	765
20×16Ⓔ	914	927	991	498	398	450	832

Ⓔ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 flanged end ball valve.

二片式固定铸钢球阀
2PC Trunnion Cast Ball Valve

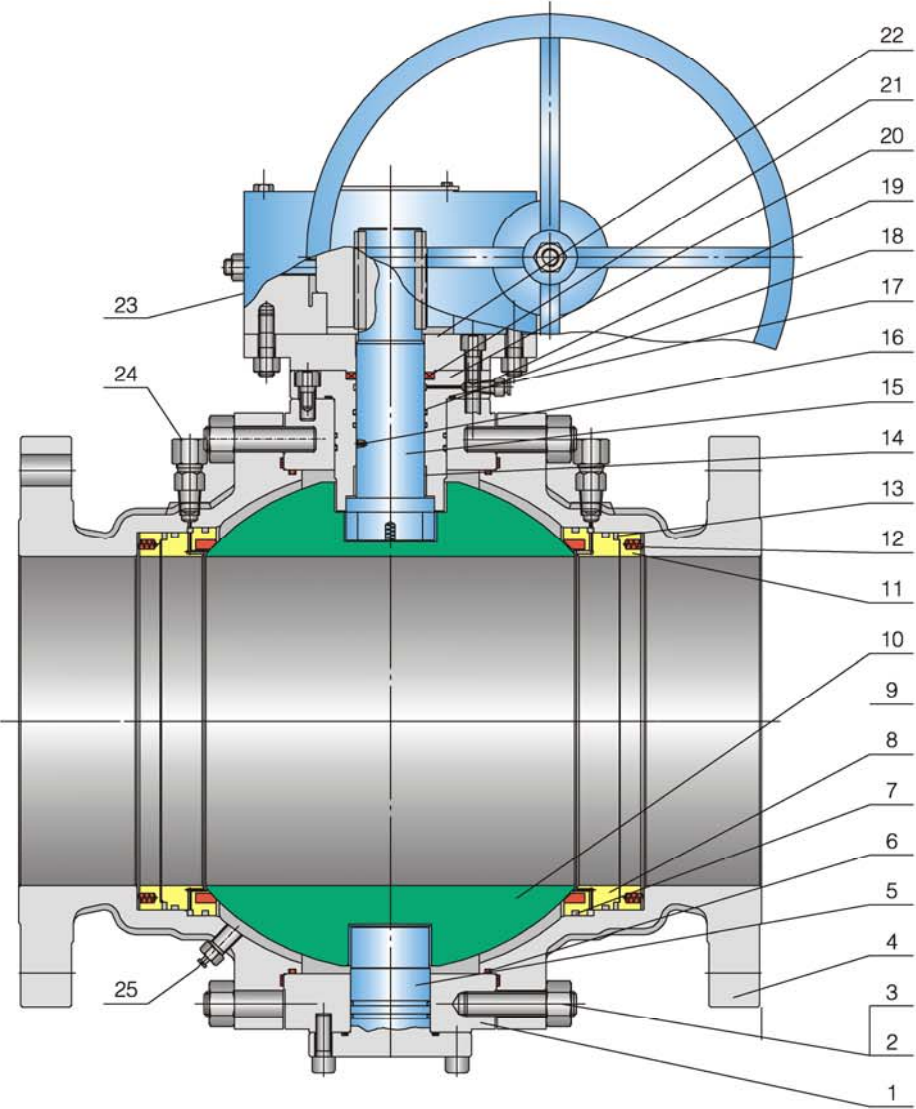
结构形式及尺寸表 Construction and Dimension

Class 600Lbmm							
Size (in)	L			H≈	H1≈	M≈	W≈
	RF	RTJ	BW				
6	559	562	559	305	198	300	174
8×6Ⓔ	660	664	660	305	198	300	198
10×6Ⓔ	787	791	787	305	198	300	244
8	660	664	660	365	252	3400	339
10×8Ⓔ	787	791	787	365	252	3400	386
12×8Ⓔ	838	841	838	365	252	3400	420
10	787	791	787	484	299	450	515
12×10Ⓔ	838	841	838	484	299	450	545
14×10Ⓔ	889	892	889	484	299	450	576
16×10Ⓔ	991	994	991	484	299	450	648
12	838	841	838	580	343	500	960
14×12Ⓔ	889	892	889	580	343	500	992
16×12Ⓔ	991	994	991	580	343	500	1072
18×12Ⓔ	1092	1095	1092	580	343	500	1142
14	889	892	889	608	377	500	1250
16×14Ⓔ	991	994	991	608	377	500	1328
18×14Ⓔ	1092	1095	1092	608	377	500	1405
20×14Ⓔ	1194	1200	1194	608	377	500	1513
16	991	994	991	663	416	500	1415
18×16Ⓔ	1092	1095	1092	663	416	500	1615
20×16Ⓔ	1194	1200	1194	663	416	500	1692

Class 1500Lbmm							
Size (in)	L			H≈	H1≈	M≈	W≈
	RF	RTJ	BW				
6	705	711	705	365	211	400	380
8×6Ⓔ	832	841	832	365	211	400	485
10×6Ⓔ	991	1000	991	365	211	400	635
8	832	841	832	475	274	450	750
10×8Ⓔ	991	1000	991	475	274	450	956
12×8Ⓔ	1130	1146	1130	475	274	450	1056
10	991	1000	991	578	310	500	1165
12×10Ⓔ	1130	1146	1130	578	310	500	1267
14×10Ⓔ	1257	1276	1257	578	310	500	1465
16×10Ⓔ	1384	1407	1384	578	310	500	1592
12	1130	1146	1130	696	485	500	1625
14×12Ⓔ	1257	1276	1257	696	485	500	1825
16×12Ⓔ	1384	1407	1384	696	485	500	1900
14	1257	1276	1257	761	510	550	1980
16×14Ⓔ	1384	1407	1384	761	510	550	2280

Ⓔ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 flanged end ball valve.

主要结构图形 Major Features



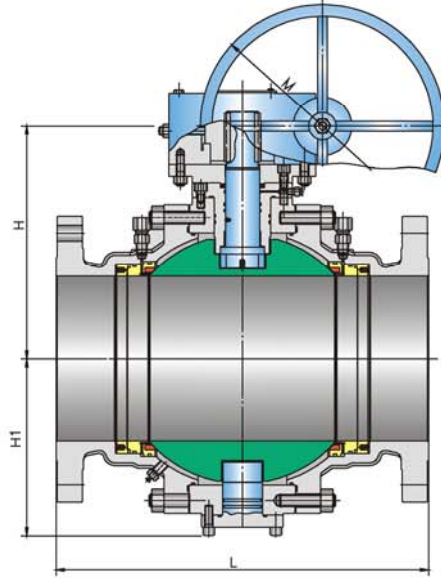
主要参数 Main Parameter Specification

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	阀体 Body	A216-WCB、WCC, A352-LCB, A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
2	螺母 Nut	A194-2H、2HM、8、8M
3	螺柱 Bolt	A193-B7、B7M、B8、B8M
4	连接体 Adapter	A216-WCB、WCC, A352-LCB, A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
5	固定轴 Trunnion	1045+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20、4140+ENP、17-4PH
6	O型圈 O-Ring	NBR、VITON
7	O型圈 O-Ring	NBR、VITON
8	阀座圈 Seat Ring	A105+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20
9	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
10	球 Ball	A105+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20
11	压环 Compression ring	A1025, SS304、SS304L、SS316、SS316L、SS321、ALLOY-20、F51、F53
12	弹簧 Spring	SS304, Inconel、1566+ENP
13	密封圈 Sealing Ring	Flexble Graphite
14	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
15	阀杆 Stem	1045+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20、4140+ENP、17-4PH
16	弹簧 Spring	SS304, Inconel、1566+ENP
17	密封圈 Sealing Ring	SS304、SS316+Flexble Graphite Spiral Wound
18	O型圈 O-Ring	NBR、VITON
19	注密封脂阀 Grease Fitting	1025、SS304、SS304L、SS316、SS316L、SS321、ALLOY-20、F51、F53
20	填料箱 Stuffing Box	A105+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, ALLOY-20
21	填料 Packing	Flexible Graphite
22	连接盘 Connecting Plate	1025、A216-WCB、A351 CF8
23	齿轮 Gear	
24	注密封脂阀 Grease Fitting	1025、SS304、SS304L、SS316、SS316L、SS321、ALLOY-20、F51、F53
25	丝堵和放泄阀 Drain Valve and Plug	1025, SS304、SS316、F51、F53、ALLOY-20

结构形式及尺寸表 Construction and Dimension



Size (in)	L			H≈	H1≈	M≈	W≈(kg)	
	RF	RTJ	BW				I	II
16	762	775	838	498	398	450	739	723
18×16⑥	864	876	914	498	398	450	812	773
20×16⑥	914	927	991	498	398	450	906	863
18	864	876	914	640	437	500	930	879
20×18⑥	914	927	991	640	437	500	1029	980
20	914	1080	991	700	467	550	1617	1540
24×20⑥	1067	—	1143	700	467	550	1900	1810
22	991※	1080	1092※	735	499	550	2518	2398
24×22⑥	1067	1080	1143	735	499	550	2591	2468
24	1067	—	1143	820	551	550	2787	2654
30×24⑥	1295	—	1397	820	551	550	3049	2904
26	1143	—	1245	892	624	550	3276	3120
28×26⑥	1245	—	1346	892	624	550	3557	3388
28	1245	—	1346	901	632	550	3183	3032
30×28⑥	1295	—	1397	901	632	550	3518	3350
30	1295	—	1397	962	715	762	3675	3350
32×30⑥	1372	—	1524	962	715	762	—	—
36×30⑥	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

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

■W 指RF法兰面球阀重量 The W in the table means weight of therefore end ball valve.

结构形式及尺寸表 Construction and Dimension

Size (in)	L			H≈	H1≈	M≈	W≈(kg)	
	RF	RTJ	BW				II	I
16	991	994	991	643	416	500	1475	1549
18×16⑥	1092	1095	1092	643	416	500	1615	1695
20×16⑥	1194	1200	1194	643	416	500	1692	1778
18	1092	1095	1092	723	455	500	1741	1828
20×18⑥	1194	1200	1194	723	455	500	1843	1935
20	1194	1200	1194	823	522	550	2210	2320
24×20⑥	1397	1407	1397	823	522	550	3081	3235
22	1295	1305	1295	845	592	812	3714	3899
24×22⑥	1397	1407	1397	845	592	812	3864	4057
24	1397	1407	1397	866	615	812	3490	3665
30×24⑥	1651	1664	1651	866	615	812	4496	4270
26	1448	1461	1448	924	630	812	4525	4751
28×26⑥	1549	1562	1549	924	630	812	—	—
28	1549	1562	1549	956	700	812	5148	5405
30×28⑥	1651	1664	1651	956	700	812	—	—
30	1651	1664	1651	1038	726	914	5768	6056
32×30⑥	1778	1794	1778	1038	726	914	—	—
36×30⑥	2083	2099	2083	1038	726	914	7062	7415
32	1778	1794	1778	1218	788	914	6908	7253
34	1930	1946	1930	1230	815	914	7408	7778
36	2083	2099	2083	1269	875	914	8745	9182
40	2080※	—	2170※	1342	945	914	11985	12584
42	2175※	—	—	1520	989	1016	14100	14805
48	2435※	—	—	1655	1120	1016	21618	22699
56	2710※	—	—	—	—	—	—	—

Size (in)	L			H≈	H1≈	M≈	W≈(kg)	
	RF	RTJ	BW				II	I
16	1384	1407	1384	650	500	550	3540	3718
18×16⑥	1537※	1559※	1537※	650	500	550	4496	4720
20×16⑥	1664※	1686※	1664※	650	500	550	4781	5020
18	1537※	1559※	1537※	783	585	812	4824	5065
20×18⑥	1664※	1686※	1664※	783	585	812	6088	6392
20	1664※	1686※	1664※	880	635	914	7250	7612
24×20⑥	2043※	2071※	2043※	880	635	914	8321	8737
24	2043※	2071※	2043※	1285	720	914	10845	11387

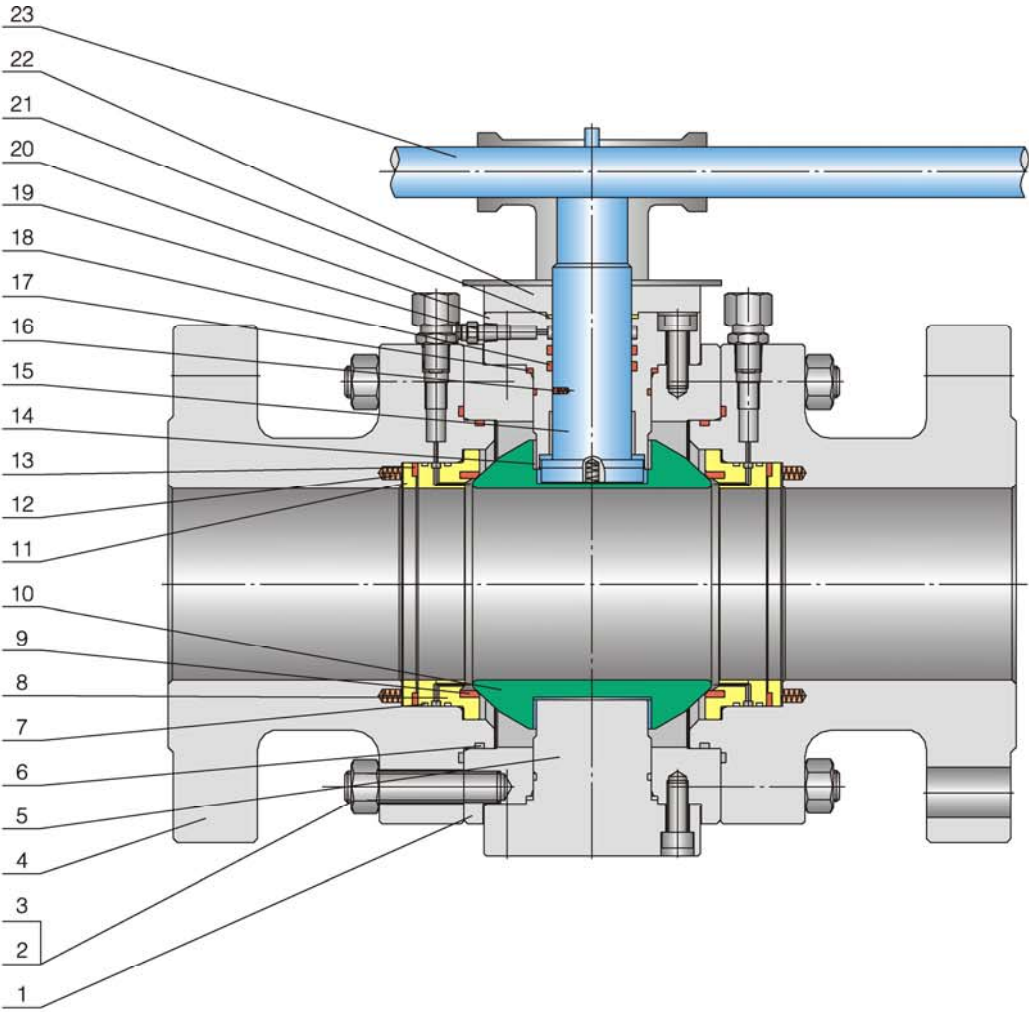
⑥规则孔 Regular bore; ⑥缩孔 Reduce bore ※L由厂方与用户协商确定 L will be confirmed by this consumer and factory.

■W 指RF法兰面球阀重量 The W in the table means weight of therefore end ball valve.

Size (in)	L			H≈	H1≈	M≈	W≈(kg)	
	RF	RTJ	BW				II	I
16	1130	1140	1130	727	406	550	1903	1998
18×16⑥	1219	1232	1219	727	406	550	2050	2155
20×16⑥	1321	1334	1321	727	406	550	2374	2495
18	1219	1232	1219	785	418	550	2300	2415
20×18⑥	1321	1334	1321	785	418	550	2600	2730
20	1321	1334	1321	839	561	550	2985	3135
24×20⑥	1549	1568	1549	839	561	550	3708	3895
24	1549	1568	1549	853	634	812	5040	5295
30×24⑥	1880※	1902※	1880※	853	634	812	6850	7200
26	1651※	1674※	1651※	909	725	914	6060	6365
28×26⑥	1753※	1775※	1753※	909	725	914	—	—
28	1753※	1775※	1753※	980	765	914	7270	7635
30×28⑥	1880※	1902※	1880※	980	765	914	—	—
30	1880※	1902※	1880※	1095	810	914	8425	8846
32×30⑥	2032※	2054※	2032※	1095	810	914	—	—
36×30⑥	2286※	2315※	2286※	1095	810	914	10265	10778
32	2032※	2054※	2032※	1270	840	914	9589	10068
34	2159※	2188※	2159※	1310	860	914	13545	14250
36	2286※	2315※	2286※	1445	893	914	14640	15372

Size (in)	L			H≈	H1≈	M≈	W≈(kg)
	RF	RTJ	BW				
6	914	927	914	385	250	450	745
8×6⑥	1022	1038	1022	385	250	450	935
10×6⑥	1270	1292	1270	385	250	450	1080
8	1022	1038	1022	502	340	500	1202
10×8⑥	1270	1292	1270	502	340	500	1450
12×8⑥	1422	1445	1422	502	340	500	1869
10	1270	1292	1270	600	411	500	2080
12×10⑥	1422	1445	1422	600	411	500	2287
12	1422	1445	1422	715	498	550	3080

主要结构图形 Major Features



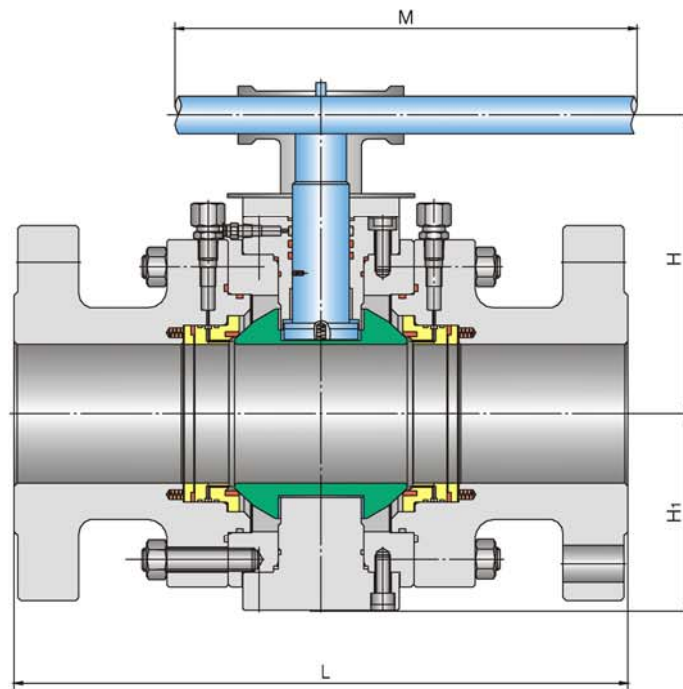
主要参数 Main Parameter Specification

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	阀体 Body	A105, A350-LF2, A182-F304、F304L、F316、F316L、F51、F53
2	螺柱 Stud	ASTM A193 B7、B7M、B8
3	螺母 Nut	ASTM A194 2H、2HM、8
4	连接体 Adapter	A105, A350-LF2, A182-F304、F316、F304L、F316L、F51、F53
5	固定轴 Trunnion	1045+ENP, ASTM A182 F6、F304、F316、F51、F53
6	O型圈 O-ring	Viton、NBR
7	O型圈 O-ring	Viton、NBR
8	阀座圈 Seat ring	A105+ENP, A351 LF2、F6、F304、F316、F51、F53
9	阀座 Seat	PTFE、RPTFE、PPL、PEEK、NYLON
10	球体 Ball	A105+ENP, A351 LF2、F6、F304、F316、F51、F53
11	压环 Ring	A105, A351 LF2、F6、F304、F316、F51、F53
12	弹簧 Spring	SS304、17-4PH、Incone
13	密封圈 Sealing Ring	SS304+Graphite
14	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
15	阀杆 Stem	1045+ENP, ASTM A182 F6、F304、F316、F51、F53
16	弹簧 Spring	SS304、17-4PH、Incone
17	垫片 Gasket	Flexible Graphite、PTFE
18	O型圈 O-ring	Viton、NBR
19	注油阀 Oil Cup	1025、SS304
20	填料箱 Stuffing Box	A105, A350-LF2, A182-F304、F316、F304L、F316L、F51、F53
21	填料 Packing	Flexible Graphite、PTFE
22	压板 Gland	ASTM A105、ASTM A216 WCB、ASTM A351 CF8
23	手柄 Wrench	ASTM A216 WCB

结构形式及尺寸表 Construction and Dimension



Size (in)	L			H≈	H1≈	M≈	W≈ (kg)
	RF	RTJ	BW				
2	178	191	216	168	83	250	26
3 × 2 [Ⓔ]	203	216	283	168	83	250	30
2 1/2	191	203	241	180	102	300	42
3 × 2 1/2 [Ⓔ]	203	216	283	180	102	300	46
4 × 2 1/2 [Ⓔ]	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

Ⓔ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.

结构形式及尺寸表 Construction and Dimension

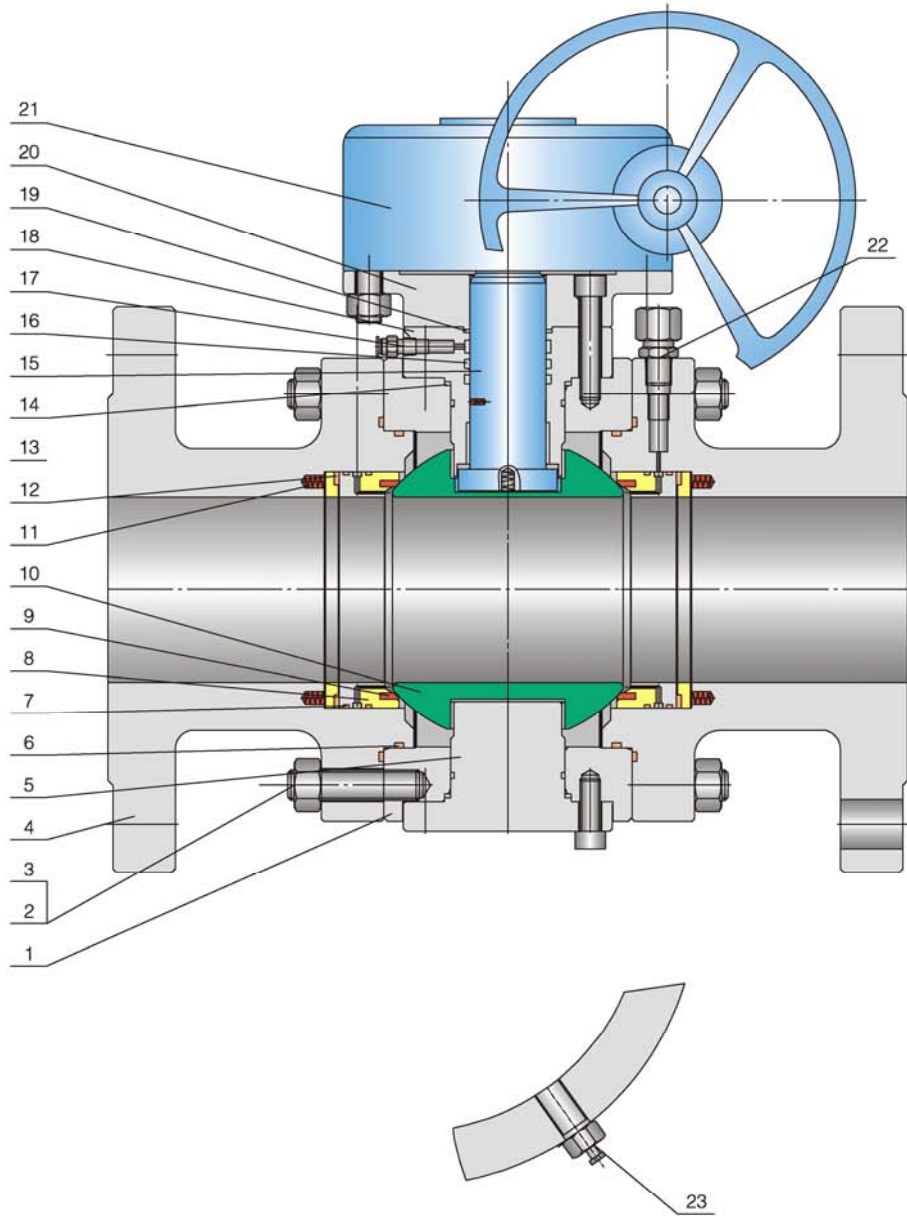
Size (in)	L			H≈	H1≈	M≈	W≈ (kg)
	RF	RTJ	BW				
2	292	295	292	195	100	500	33
3 × 2 [Ⓔ]	356	359	356	195	100	500	42
2 1/2	330	333	330	210	115	600	39
3 × 2 1/2 [Ⓔ]	356	359	356	210	115	600	45
4 × 2 1/2 [Ⓔ]	432	435	432	210	115	600	69
3	356	359	356	247	126	700	68
4 × 3 [Ⓔ]	432	435	432	247	126	700	85
6 × 3 [Ⓔ]	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

Ⓔ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.

Size (in)	L			H≈	H1≈	M≈	W≈ (kg)
	RF	RTJ	BW				
2	368	381	368	237	122	800	50
3 × 2 [Ⓔ]	470	473	470	237	122	800	71
2 1/2	419	422	419	261	148	900	75
3 × 2 1/2 [Ⓔ]	470	473	470	261	148	900	90
4 × 2 1/2 [Ⓔ]	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

Ⓔ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.

主要结构图形 Major Features



主要参数 Main Parameter Specification

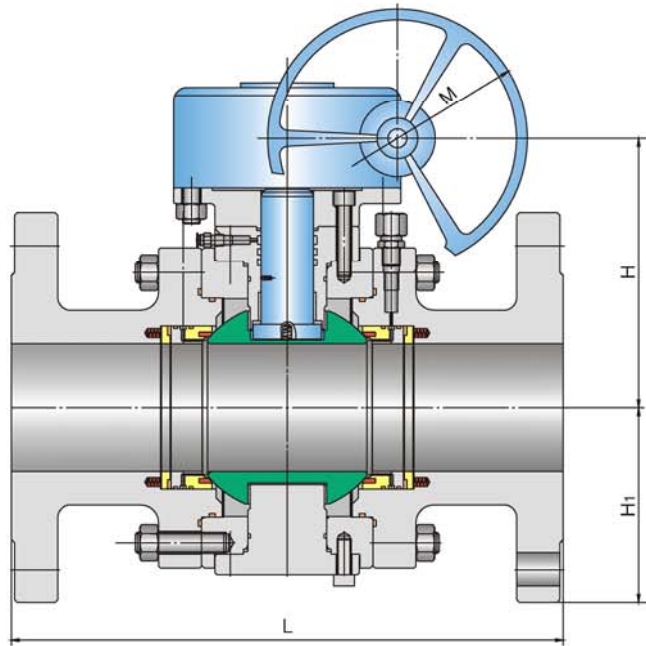
设计和制造 Design and Manufacture: API 6D、ASME B16.34(BS5351)、API 608、MSS-SP-72
结构长度尺寸 End to End Dimension: API 6D、ASME B16.10
法兰连接尺寸 Flange Connection Dimension: ASME B16.5, NPS≥26" Per as ASME B16.47
对焊端尺寸 BW Connection Dimension: ASME B16.25
检查和试验 Test and Inspection: API 6D、API 598
防火设计 Fire-safe Design: 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	阀体 Body	A105, A350-LF2, A182-F304、F304L、F316、F316L、F321、F51、F53
2	螺母 Nut	A194-2H、2HM、8、8M
3	螺栓 Bolt	A193-B7、B7M、B8、B8M
4	连接体 Adapter	A105, A350-LF2, A182-F304、F304L、F316、F316L、F321、F51、F53
5	固定轴 Trunnion	1045+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, 4140+ENP、17-4PH
6	O型圈 O-Ring	NBR、VITON
7	O型圈 O-Ring	VITON
8	阀座圈 Seat Ring	A105+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53
9	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
10	球 Ball	A105+ENP, A350-LF2+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53
11	弹簧 Spring	SS304, Inconel、1566+ENP
12	密封圈 Sealing Ring	Flexible Graphite
13	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
14	密封圈 Sealing Ring	SS304、SS316+Flexible Graphite Spiral Wound
15	阀杆 Stem	1045+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53, 4140+ENP、17-4PH
16	O型圈 O-Ring	NBR、VITON
17	注油阀 Oil Cup	1025、SS304
18	填料箱 Stuffing Box	A105+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53
19	填料 Packing	Flexible Graphite
20	连接盘 Connecting Plate	1025、A216-WCB、A351 CF8
21	齿轮 Gear	
22	注脂阀 Grease fitting	1025、SS304、SS316、F51、F53
23	丝堵和放泄阀 Drain Valve and Plug	1025, SS304、SS316、F51、F53、ALLOY-20

三片式固定锻钢球阀
3PC Trunnion Forged Ball Valve

结构形式及尺寸表 Construction and Dimension



Class 150Lbmm								
Size (in)	L			H≈	H1≈	M≈	W≈(kg)	
	RF	RTJ	BW				I	II
6	394	406	457	280	178	300	182	172
8×6Ⓢ	457	470	521	280	178	300	210	200
10×6Ⓢ	533	546	559	280	178	300	—	—
8	457	470	521	305	225	300	320	302
10×8Ⓢ	533	546	559	305	225	300	355	338
12×8Ⓢ	610	622	635	305	225	300	—	—
10	533	546	559	395	257	300	515	490
12×10Ⓢ	610	622	635	395	257	300	565	538
14×10Ⓢ	686	699	762	395	257	300	615	586
16×10Ⓢ	762	775	838	395	257	300	—	—
12	610	622	635	428	323	300	682	649
14×12Ⓢ	686	699	762	428	323	300	723	689
16×12Ⓢ	762	775	838	428	323	300	786	749
18×12Ⓢ	864	876	914	428	323	300	—	—
14	686	699	762	465	355	400	856	815
16×14Ⓢ	762	775	838	465	355	400	903	860
18×14Ⓢ	864	876	914	465	355	400	—	—
20×14Ⓢ	914	927	991	465	355	400	—	—
16	762	775	838	528	398	450	1076	1025
18×16Ⓢ	864	876	914	528	398	450	1165	1110
20×16Ⓢ	914	927	991	528	398	450	1502	1430
18	864	876	914	564	437	500	1658	1579

Ⓢ规则孔 Regular bore; Ⓢ缩孔 Reduce bore ※L由厂方与用户协商确定 L will be confirmed by this consumer and factory.

■W 指RF法兰面球阀重量 The W in the table means weight of therefore end ball valve.

三片式固定锻钢球阀
3PC Trunnion Forged Ball Valve

结构形式及尺寸表 Construction and Dimension

Class 300Lbmm								
Size (in)	L			H≈	H1≈	M≈	W≈(kg)	
	RF	RTJ	BW				I	II
6	403	419	403	285	201	300	205	195
8×6Ⓢ	502	518	521	285	201	300	223	212
10×6Ⓢ	568	584	559	285	201	300	—	—
8	502	518	521	342	232	300	338	322
10×8Ⓢ	568	584	559	342	232	300	373	355
12×8Ⓢ	648	664	635	342	232	300	—	—
10	568	584	559	390	283	400	584	556
12×10Ⓢ	648	664	635	390	283	400	634	604
14×10Ⓢ	762	778	762	390	283	400	696	663
16×10Ⓢ	838	854	838	390	283	400	—	—
12	648	664	635	435	335	400	730	695
14×12Ⓢ	762	778	762	435	335	400	767	730
16×12Ⓢ	838	854	838	435	335	400	—	—
18×12Ⓢ	914	930	914	435	335	400	—	—
14	762	778	762	467	360	450	940	895
16×14Ⓢ	838	854	838	467	360	450	1076	1025
18×14Ⓢ	914	930	914	467	360	450	—	—
20×14Ⓢ	991	1010	991	467	360	450	—	—
16	838	854	838	538	398	500	1570	1495
18×16Ⓢ	914	930	914	538	398	500	1743	1660
20×16Ⓢ	991	1010	991	538	398	500	2058	1960
18	914	930	914	625	437	500	1885	1795
20×18Ⓢ	991	1010	991	625	437	500	1979	1885
20	991	1010	991	712	477	500	2290	2181
24×20Ⓢ	1143	1165	1143	712	477	500	2785	2652
22	1092	1114	1092	799	495	550	2961	2820
24×22Ⓢ	1143	1165	1143	799	495	550	—	—
24	1143	1165	1143	826	585	550	3715	3538
30×24	1397	1422	1397	826	585	550	4660	4438
26	1245	1270	1245	862	630	550	4484	4270
28×26Ⓢ	1346	1372	1346	862	630	550	—	—
28	1346	1372	1346	893	683	550	5077	4835
30×28	1397	1422	1397	893	683	550	—	—
30	1397	1422	1397	968	715	550	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

Ⓢ规则孔 Regular bore; Ⓢ缩孔 Reduce bore ※L由厂方与用户协商确定 L will be confirmed by this consumer and factory.

■W 指RF法兰面球阀重量 The W in the table means weight of therefore end ball valve.

Class 600Lbmm								
Size (in)	L			H≈	H1≈	M≈	W≈(kg)	
	RF	RTJ	BW				I	II
6	559	562	559	305	198	300	258	246
8×6Ⓢ	660	664	660	305	198	300	284	270
10×6Ⓢ	787	791	787	305	198	300	—	—
8	660	664	660	365	252	400	440	418
10×8Ⓢ	787	791	787	365	252	400	600	572
12×8Ⓢ	838	841	838	365	252	400	—	—
10	787	791	787	400	299	400	592	564
12×10Ⓢ	838	841	838	400	299	400	790	760
14×10Ⓢ	889	892	889	400	299	400	830	790
16×10Ⓢ	991	994	991	400	299	400	—	—
12	838	841	838	449	343	400	935	890
14×12Ⓢ	889	892	889	449	343	400	1145	1090
16×12Ⓢ	991	994	991	449	343	400	1207	1150
18×12Ⓢ	1092	1095	1092	449	343	400	—	—
14	889	892	889	507	377	450	1192	1135
16×14Ⓢ	991	994	991	507	377	450	1411	1344
18×14Ⓢ	1092	1095	1092	507	377	450	—	—
20×14Ⓢ	1194	1200	1194	507	377	450	—	—
16	991	994	991	543	416	550	1818	1731
18×16Ⓢ	1092	1095	1092	543	416	550	1991	1896
20×16Ⓢ	1194	1200	1194	543	416	550	2090	1990
18	1092	1095	1092	623	455	500	2152	2049
20×18Ⓢ	1194	1200	1194	623	455	500	2277	2169
20	1194	1200	1194	823	522	550	2730	2600
24×20Ⓢ	1397	1407	1397	823	522	550	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	4381
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

结构形式及尺寸表 Construction and Dimension

Class 900Lb

mm

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

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

■W指RF法兰面球阀重量 The W in the table means weight of therefore end ball valve.

Class 1500Lb

mm

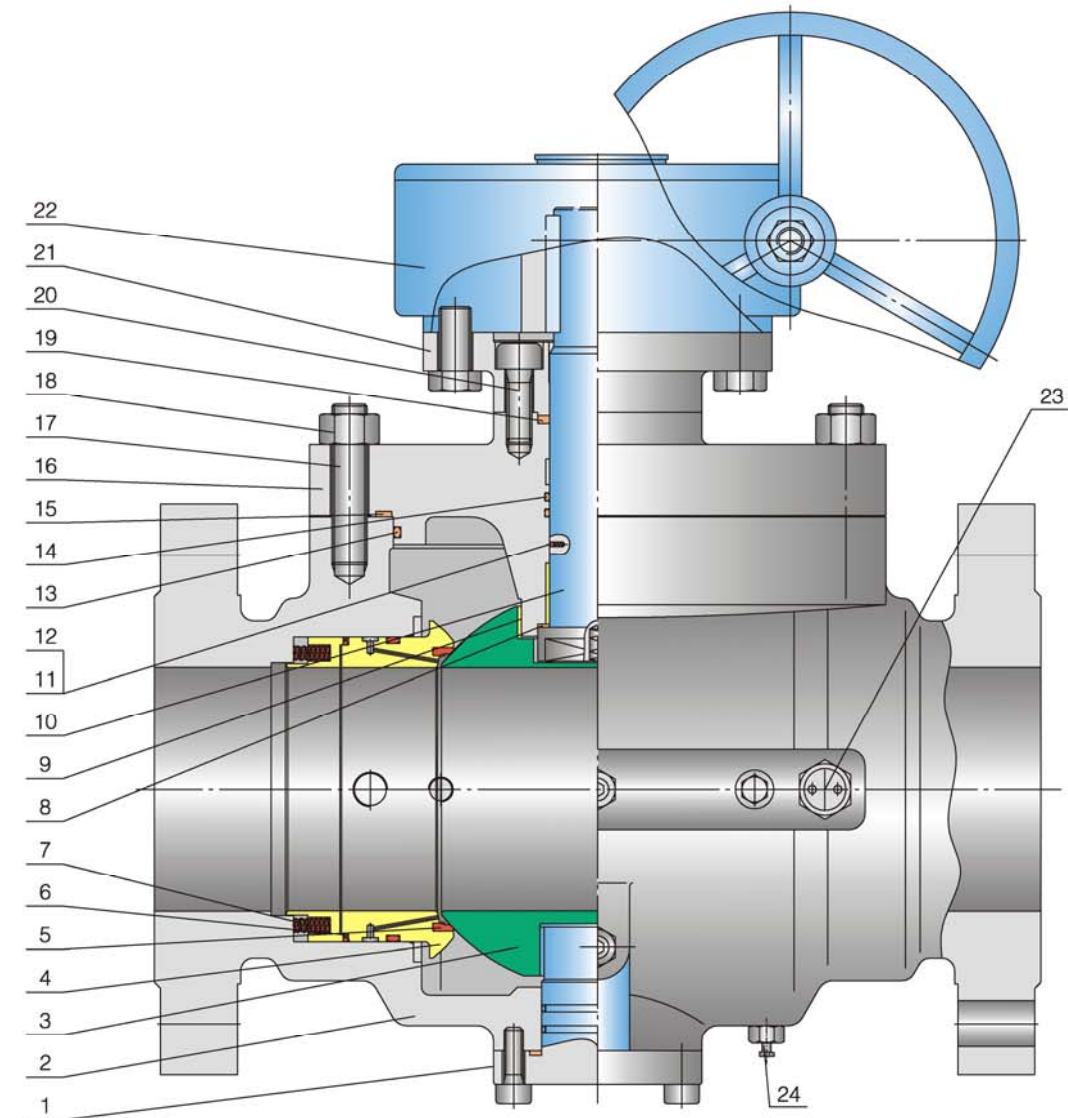
Size (in)	L			H≈	H1≈	M≈	W≈(kg)	
	RF	RTJ	BW				I	II
6	705	771	705	305	211	400	512	488
8×6 ⑥	832	841	832	305	211	400	625	595
10×6 ⑥	991	1000	991	305	211	400	—	—
8	932	841	932	365	274	450	835	795
10×8 ⑥	991	1000	991	365	274	450	1037	988
12×8 ⑥	1130	1146	1130	365	274	450	—	—
10	991	1000	991	440	310	500	1470	1400
12×10 ⑥	1130	1146	1130	440	310	500	1580	1505
14×10 ⑥	1257	1276	1257	440	310	500	2251	2144
16×10 ⑥	1384	1407	1384	440	310	500	—	—
12	1130	1146	1130	596	485	500	1851	1763
14×12 ⑥	1257	1276	1257	596	485	500	2600	2476
16×12 ⑥	1384	1407	1384	596	485	500	3030	2886
18×12 ⑥	1537※	1559※	1537※	596	485	550	—	—
14	1257	1276	1257	661	510	550	2841	2706
16×14 ⑥	1384	1407	1384	661	510	550	3360	3198
18×14 ⑥	1537※	1559※	1537※	661	510	550	—	—
20×14 ⑥	1664※	1686※	1664※	661	510	550	—	—
16	1384	1406	1384	700	540	550	4373	4165
18×16 ⑥	1537※	1559※	1537※	700	540	550	5554	5290
20×16 ⑥	1664※	1686※	1664※	700	540	550	5906	5625
18	1537※	1559※	1537※	783	585	812	6332	6030
20×18 ⑥	1664※	1686※	1664※	783	585	812	7521	7163
20	1664※	1686※	1664※	880	635	914	9513	9060
24×20 ⑥	2043※	2071※	2043※	880	635	914	10922	10402
24	2043※	2071※	2043※	1285	720	914	15183	14460

Class 2500Lb

mm

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

主要结构图形 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

法兰连接尺寸 Flange Connection Dimension: ASME B16.5, NPS≥26" Per as ASME B16.47

对焊端连接尺寸 BW Connection Dimension: ASME B16.25

检查和试验 Test and Inspection: API 6D、API 598

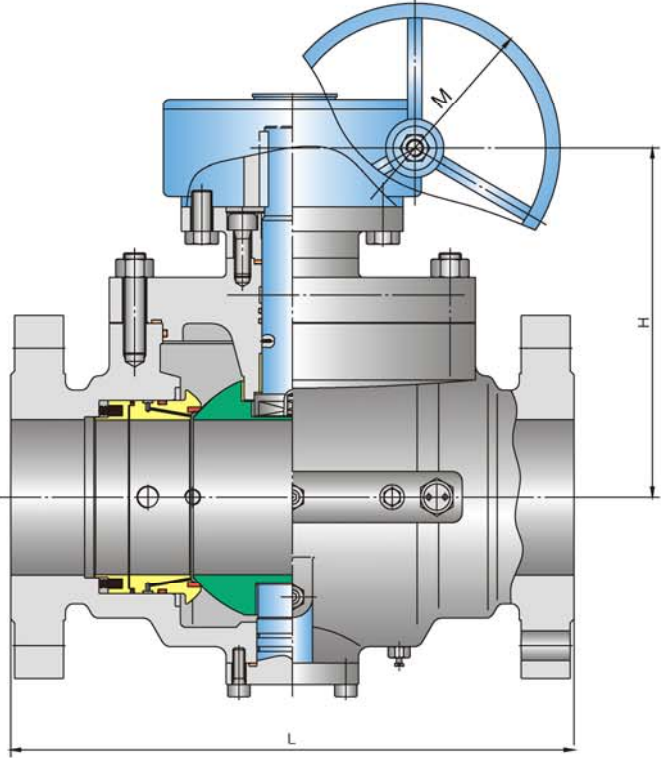
防火设计 Fire-safe Design: API 607/6Fa

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	盖 Cover	WCB、WCC、A352-LCB、A351 CF8、CF3、CF8M、CF3M、CN7M、CD4MCu
2	阀体 Body	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
3	球 Ball	A105+ENP、A182-F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20
4	阀座圈 Seat Ring	A105+ENP、A182-F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20
5	阀座 Seat	PTFE、RPTFE、PEEK、PPL、POM、KARBATE、NYLON、MOLON、DEVLON
6	密封圈 Sealing Ring	Flexble Graphite
7	弹簧 Spring	SS304、Inconel、1566+ENP
8	止推垫片 Thrust Washer	PTFE、RPTFE、Stainless Steel+N
9	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
10	阀杆 Stem	1045+ENP、A182-F6、F304、F304L、F316、F316L、F321、F51、F53、ALLOY-20、4140+ENP、17-4PH
11	弹簧 Spring	SS304、SS316、SS17-4PH
12	球 Ball	SS304、SS316
13	O形圈 O-ring	NBR、VITON
14	O形圈 O-ring	NBR、VITON
15	垫片 Gasket	SS304、SS316+Flexible Graphite Spiral Wound
16	阀盖 Cover	A216-WCB、WCC、A352-LCB、A351-CF8、CF8M、CF3、CF3M、CN7M、CF8C、CD4MCu、CN-3MN
17	螺母 Nut	A194-2H、2HM、8、8M
18	螺栓 Bolt	A193-B7、B7M、B8、B8M
19	填料 Packing	PTFE、Graphite
20	螺栓 Bolt	A193-B7、B8
21	支架 Yoke	A216 WCB、A351 CF8
22	齿轮 Gear	
23	注密封脂阀 Grease Fitting	1025、SS304、SS304L、SS316、SS316L、SS321、ALLOY-20、F51、F53
24	丝堵和放泄阀 Drain Valve and Plug	1025、SS304、SS316、F51、F53、ALLOY-20

结构形式及尺寸表 Construction and Dimension



Class 150Lb

Size (in)	L			H≈	H1≈	M≈	W≈ (kg)
	RF	RTJ	BW				
2	292	295	292	218	83	180	15
3×2 ②	356	359	356	218	83	180	18
3	356	359	356	295	117	180	33
4×3 ②	432	435	432	295	117	180	38
4	432	435	432	310	141	300	53
6×4 ②	559	562	559	310	141	300	79
6	559	562	559	340	193	300	111
8×6 ②	660	664	660	340	193	300	124.5
8	660	664	660	405	217	300	182
10×8 ②	787	791	787	405	217	300	235
10	787	791	787	465	270	300	369
12×10 ②	838	841	838	465	270	300	352.5
12	838	841	838	607	323	300	577.5
14×12 ②	889	892	889	607	323	300	603
14	889	892	889	650	323	400	685.5
16×14 ②	991	994	991	650	355	400	721.5
16	991	994	991	678	400	450	1084.5

②规则孔 Regular bore; ③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.

Size (in)	L			H≈	H1≈	M≈	W≈ (kg)
	RF	RTJ	BW				
18×16 ②	1092	1095	1092	678	400	450	1147.5
18	1092	1095	1092	720	440	500	1318.5
20×18 ②	1194	1200	1194	720	440	500	1470
20	1194	1200	1194	780	467	550	2310
24×20 ②	1397	1406	1397	780	467	550	2715
24	1397	1406	1397	905	551	550	3981
30×24 ②	1651	1664	1651	905	551	550	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 ②	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	14021
42	2437	2437	2437	1534	935	914	15533
48	2540	2540	2540	1586	1050	914	24315

结构形式及尺寸表 Construction and Dimension

Class 300Lbmm							
Size (in)	L			H≈	H1≈	M≈	W≈ (kg)
	RF	RTJ	BW				
2	292	295	292	208	95	180	23
3×2Ⓢ	356	359	356	208	95	180	30
3	356	359	356	275	122	300	45
4×3Ⓢ	432	435	432	275	122	300	66
4	432	435	432	285	148	300	83
6×4Ⓢ	559	562	559	285	148	300	98
6	559	562	559	335	201	300	135
8×6Ⓢ	660	664	660	335	201	300	160.5
8	660	664	660	412	232	300	301.5
10×8Ⓢ	787	791	787	412	232	300	333
10	787	791	787	460	283	400	525
12×10Ⓢ	838	841	838	460	283	400	571.5
12	838	841	838	505	335	400	765
14×12Ⓢ	889	892	889	505	335	400	820.5
14	889	892	889	537	360	450	1080
16×14Ⓢ	991	994	991	537	360	450	1140
16	991	994	991	608	538	500	1750.5
18×16Ⓢ	1092	1095	1092	608	538	500	1885.5
18	1092	1095	1092	695	437	500	2289
20×18Ⓢ	1194	1200	1194	695	437	500	2484
20	1194	1200	1194	782	477	500	2808
24×20Ⓢ	1397	1406	1397	782	477	500	3378
24	1397	1406	1397	896	585	550	4512
30×24Ⓢ	1651	1664	1651	896	585	550	5637
26	1448	1460	1448	932	630	550	5124
28	1549	1562	1549	963	683	550	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

Ⓢ规则孔 Regular bore; Ⓢ缩孔 Reduce bore ※L由厂方与用户协商确定 L will be confirmed by this consumer and factory.

■W 指RF法兰面球阀重量 The W in the table means weight of therefore end ball valve.

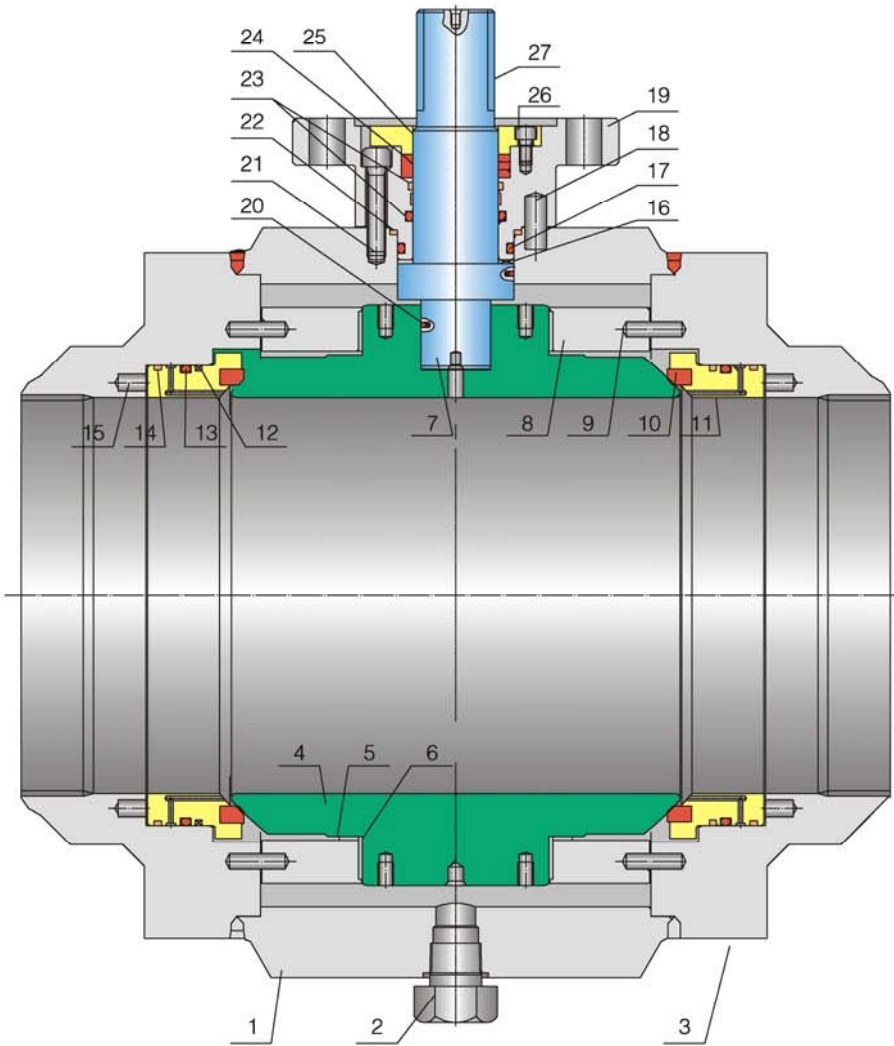
结构形式及尺寸表 Construction and Dimension

Class 900Lbmm							
Size (in)	L			H≈	H1≈	M≈	W≈ (kg)
	RF	RTJ	BW				
2	368	371	368	267	119	300	71
3×2Ⓢ	381	384	381	267	119	300	75
3	381	384	381	309	145	300	102
4×3Ⓢ	457	460	457	309	145	300	117
4	457	460	457	347	169	300	147
6×4Ⓢ	610	613	610	347	169	300	192
6	610	613	610	410	250	400	330
8×6Ⓢ	737	740	737	410	250	400	394.5
8	737	740	737	464	280	450	750
10×8Ⓢ	838	841	838	464	280	450	826.5
10	838	841	838	572	325	500	1413
12×10Ⓢ	965	968	965	572	325	500	1515
12	965	968	965	642	380	500	1800
14×12Ⓢ	1029	1038	1029	642	380	500	1965
14	1029	1038	1029	745	395	550	2482.5
16×14Ⓢ	1130	1140	1130	745	395	550	2782.5
16	1130	1140	1130	797	406	550	2854.5
18×16Ⓢ	1219	1232	1219	797	406	550	3075
18	1219	1232	1219	901	418	550	3450
20×18Ⓢ	1321	1334	1321	901	418	550	3900
20	1321	1334	1321	920	561	500	4477.5
24×20Ⓢ	1549	1568	1549	920	561	500	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

Ⓢ规则孔 Regular bore; Ⓢ缩孔 Reduce bore ※L由厂方与用户协商确定 L will be confirmed by this consumer and factory.

■W 指RF法兰面球阀重量 The W in the table means weight of therefore end ball valve.

主要结构图形 Major Features



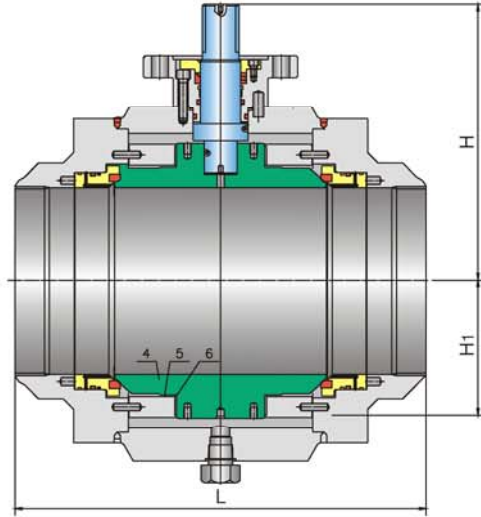
主要参数 Main Parameter Specification

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	阀体 Body	A105, A350-LF2, A182-F304、F304L、F316、F316L、F321、F51、F53
2	丝堵和放泄阀 Drain Valve and Plug	1025, SS304、SS304L、SS316、SS316L、SS321、F51、F53
3	连接体 Adapter	A105, A350-LF2, A182-F304、F304L、F316、F316L、F321、F51、F53, A537
4	球 Ball	A105+ENP, A350-LF2+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53
5	复合轴承 Bearing	PTFE、1045+RPTFE、Stainless Steel+RPTFE
6	复合轴承 Bearing	1045+RPTFE、SS304+RPTFE、SS316+RPTFE
7	阀杆 Stem	A1045+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53、4140+ENP、17-4PH
8	轴承座 Bearing Retainer	1025、A216-WCB、Stainless Steel
9	销 Pin	1045、Stainless Steel
10	阀座 Seat	PTFE、RPTFE、NYLON、PEEK、PPL、POM、KARBATE、MOLON、DEVLON
11	阀座圈 Seat Ring	A105+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53
12	O型圈 O-Ring	VITON
13	O型圈 O-Ring	VITON
14	密封圈 Sealing Ring	Flexible Graphite
15	弹簧 Spring	SS304, Inconel、1566+ENP
16	止推垫片 Thrust Washer	PTFE、RPTFE、Stainless Steel+N
17	O型圈 O-Ring	VITON
18	销 Pin	1045、Stainless Steel
19	填料箱 Stuffing Box	A105+ENP, A182-F6、F304、F304L、F316、F316L、F321、F51、F53
20	弹簧 Spring	SS304、17-4PH
21	螺钉 Screw	1035、Stainless Steel
22	O型圈 O-Ring	VITON
23	O型圈 O-Ring	NBR、VITON
24	填料 Packing	Flexible Graphite
25	压套 Gland	AISI 1035、SS304、A182 F6a、SS316、F11、F22
26	螺钉 Screw	1035、Stainless Steel
27	键 Key	1045

结构形式及尺寸表 Construction and Dimension



Size (in)	L			H≈	H1≈	M≈	W≈ (kg)
	RF	RTJ	BW				
2	178	191	216	143	83	250	20
2 1/2	191	203	241	180	102	300	22
3 × 2 ⑤	203	216	283	143	83	250	22
3	203	216	283	232	117	350	35
4 × 3 ⑤	229	241	305	232	117	350	35
4	229	241	305	243	125	450	55
6 × 4 ⑤	394	406	457	243	125	450	68

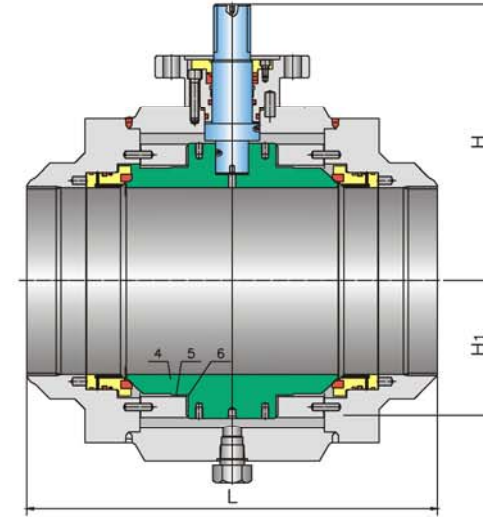
Size (in)	L			H≈	H1≈	M≈	W≈ (kg)
	RF	RTJ	BW				
2	216	232	216	158	87	250	23
2 1/2	241	257	241	200	107	300	25
3 × 2 ⑤	283	298	283	158	87	250	28
3	283	298	283	220	122	350	36
4 × 3 ⑤	305	321	305	220	122	350	50
4	305	321	305	282	148	450	70
6 × 4 ⑤	403	419	457	282	148	450	90

Size (in)	L			H≈	H1≈	M≈	W≈ (kg)
	RF	RTJ	BW				
2	292	295	292	195	100	500	25
2 1/2	330	333	330	212	115	600	30
3 × 2 ⑤	356	359	356	195	100	500	35
3	356	359	356	247	126	700	54
4 × 3 ⑤	432	435	432	247	126	700	75
4	432	435	432	275	154	900	100
6 × 4 ⑤	559	562	559	275	154	900	114

⑤规则孔 Regular bore; ⑥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.

结构形式及尺寸表 Construction and Dimension



Size (in)	L			H≈	H1≈	M≈	E≈	W≈ (kg)
	RF	RTJ	BW					
6	394	406	457	280	178	300	254	173
8 × 6 ⑥	457	470	521	280	178	300	254	195
8	457	470	521	305	225	300	254	200
10 × 8 ⑥	533	546	559	305	225	300	254	238
10	533	546	559	395	257	300	270	262
12 × 10 ⑥	610	622	635	395	257	300	270	380
12	610	622	635	428	323	300	370	414
14 × 12 ⑥	686	699	762	428	323	300	370	551
14	686	699	762	465	355	400	380	590
16 × 14 ⑥	762	775	838	465	355	400	380	731
16	762	775	838	528	398	450	430	896
18 × 16 ⑥	864	876	914	528	398	450	430	945
18	864	876	914	564	437	500	510	1200
20 × 18 ⑥	914	927	991	564	437	500	510	1443
20	914	927	991	577	453	500	510	1550
24 × 20 ⑥	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 ⑥	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 ⑥	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

⑤规则孔 Regular bore; ⑥缩孔 Reduce bore ※L由厂方与用户协商确定 L will be confirmed by this consumer and factory.

■W 指RF法兰面球阀重量 The W in the table means weight of therefore end ball valve.

结构形式及尺寸表 Construction and Dimension

Class 600Lb								
Size (in)	L			H≈	H1≈	M≈	E≈	W≈ (kg)
	RF	RTJ	BW					
6	559	562	559	350	216	300	254	243
8×6 ②	660	664	660	350	216	300	254	249
8	660	664	660	355	254	400	342	254
10×8 ②	787	791	787	355	254	400	342	—
10	787	791	787	484	296	400	342	346
12×10 ②	838	841	838	484	296	400	342	450
12	838	841	838	549	345	400	380	534
14×12 ②	889	892	889	549	345	400	380	618
14	889	892	889	608	378	450	430	782
16×14 ②	991	994	991	608	378	450	430	1008
16	991	994	991	630	416	500	510	1205
18×16 ②	1092	1095	1092	630	416	500	510	1422
18	1092	1095	1092	670	460	500	510	1595
20×18 ②	1194	1200	1194	670	460	500	510	1843
20	1194	1200	1194	712	477	550	530	2038
24×20 ②	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 ②	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 ②	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 1500Lb								
Size (in)	L			H≈	H1≈	M≈	E≈	W≈ (kg)
	RF	RTJ	BW					
6	705	711	705	305	281	400	380	340
8×6 ②	832	841	832	305	281	400	380	350
8	832	841	832	365	327	450	430	378
10×8 ②	991	1000	991	365	327	450	430	405
10	991	1000	991	440	392	500	510	450
12×10 ②	1130	1146	1130	440	392	500	510	650
12	1130	1146	1130	596	425	500	510	766
14×12 ②	1257	1276	1257	596	425	500	510	1068
14	1257	1276	1257	661	500	550	530	1112
16×14 ②	1384	1406	1384	661	500	550	530	1570
16	1384	1406	1384	725	560	550	530	1695
18×16 ②	1537※	1559※	1537※	725	560	550	530	2138
18	1537※	1559※	1537※	789	590	812	—	2320
20×18 ②	1664※	1686※	1664※	789	590	812	—	1980
20	1664※	1686※	1664※	843	725	914	—	2940
24×20 ②	2043※	2071※	2043※	843	725	914	—	3310
24	2043※	2071※	2043※	978	813	914	—	4908

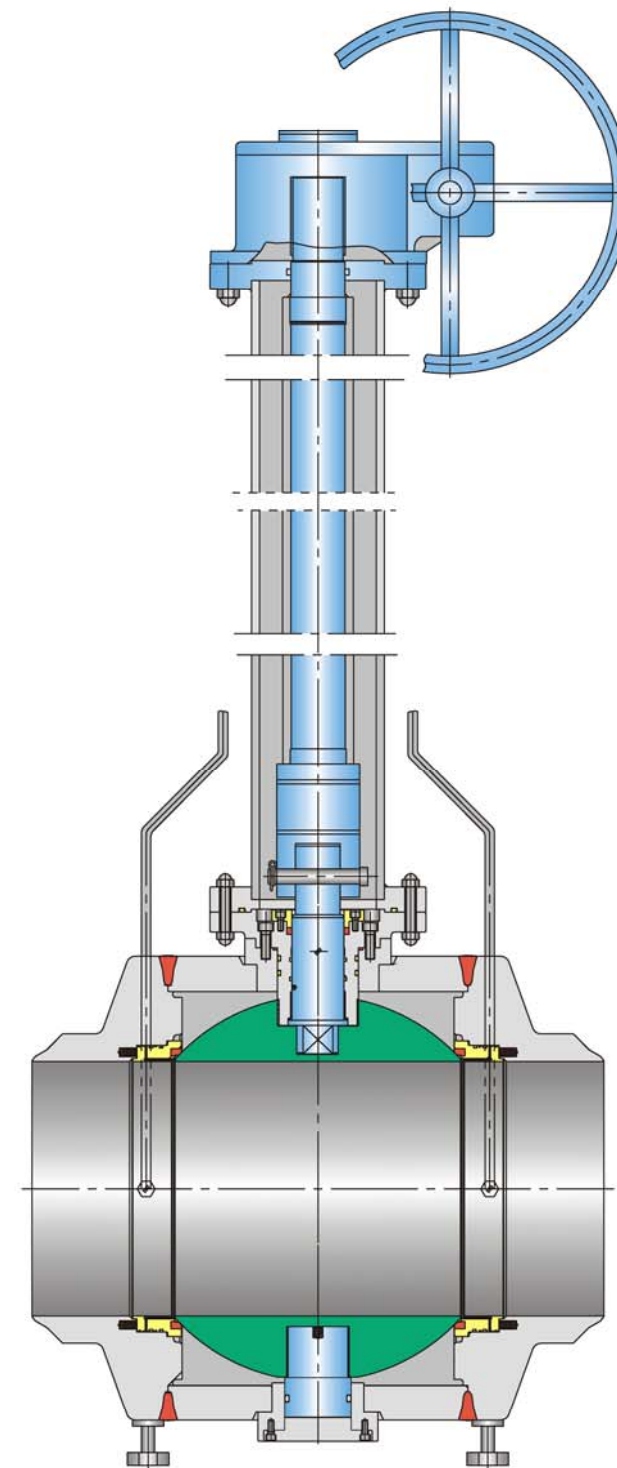
②规则孔 Regular bore; ②缩孔 Reduce bore ※L由厂方与用户协商确定 L will be confirmed by this consumer and factory.

■W 指RF法兰面球阀重量 The W in the table means weight of therefore end ball valve.

主要结构图形 Major Features

加长全焊接球阀的加长高度由客户定，其它的技术参数与全焊球阀的一样。

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.



浮动球阀力矩表 Floating ball valve torque data(N.m)

NPS(in)	Class 150	Class 300	Class 600	Class 900	Class 1500
1/2"	6	9	16	20	32
3/4"	7	12	20	35	45
1"	15	20	42	70	140
1 1/2"	40	60	90	140	171
2"	50	70	130	200	420
2 1/2"	80	90	150	320	440
3"	90	120	200	431	590
4"	180	230	370		
6"	840	930			
8"	1100	1930			
10"	2000	4500			
12"	3500				

固定球阀力矩表 Trunnion mounted ball valve torque data(N.m)

NPS(in)	Class 150	Class 300	Class 600	Class 900	Class 1500	Class 2500
2"	49	86	146	207	327	700
3"	60	109	190	270	431	1700
4"	151	268	459	649	1032	2746
6"	314	540	907	1274	2011	6393
8"	1018	1604	2557	3511	5424	12211
10"	1083	1829	3044	4258	6694	
12"	1559	2601	4297	5993	15810	
14"	2423	4243	7203	10163	23250	
16"	3016	5348	9141	12934	20546	
18"	4571	7970	13499	19028	30123	
20"	6011	10570	17986	25401	40282	
22"	6933	12141	20610	29079	46074	
24"	9712	17239	29481	41723	66290	
26"	11950	20341	33987	47634		
28"	14513	25069	42238	59407		
30"	17986	31628	53814	76000		
32"	21346	37536	63866	90197		
34"	25360	43012	71720	100429		
36"	33174	56336	94005	131674		
40"	42912	72947	121794			
42"	50757	86419	144418			
48"	66934	113942	190394			

注：1. 以上转矩数据为参考，如果有疑问请至联系我们。 The above torque data is for reference only, is any doubt please contact me.
2. 全焊接球阀扭矩值增加30%。 For full weld ball valve, The torque will be increased 30%.
3. 硬密封球阀扭矩值增加2.5~3倍。 For metel to metel seal ball valve, The torque will be increased about2.5~3 times.
4. 推荐安全系数值为1.3~1.5。 A safety factor of 1.3~1.5 times is recommended for actuator.
5. 对于低温系统扭矩值增加1.5~2倍。 For cryogenic service ,torque shall be increased about1.5~2times.

Version:Feb.2011
The catalogue is only for your reference.