

球阀系列/BALL VALVE SERIES

浮动球阀 Floating Ball Valve

大口径浮动球阀设计制造按照BS 5351规范，试验和检验按照BS 6755/API 598。阀门有侧装全通径和侧装缩径两种，通常按照手柄传动方式供货，可以按客户需要提供蜗轮传动和其他执行机构的产品。下面为我公司浮动球阀的主要特点：

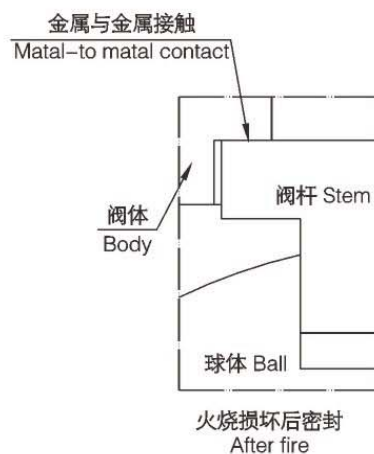
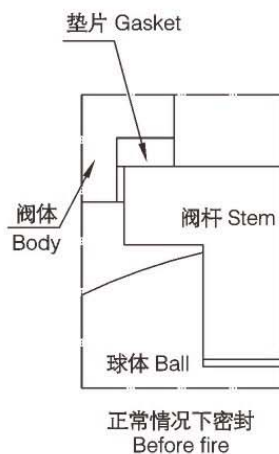
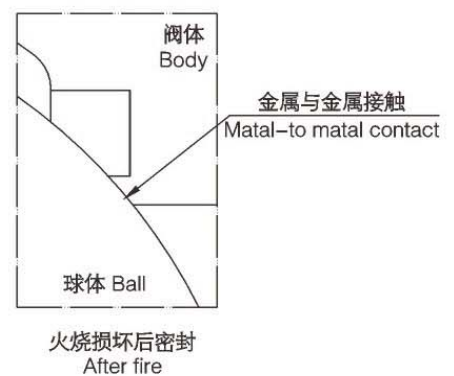
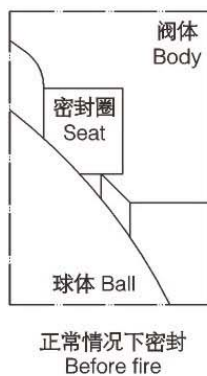
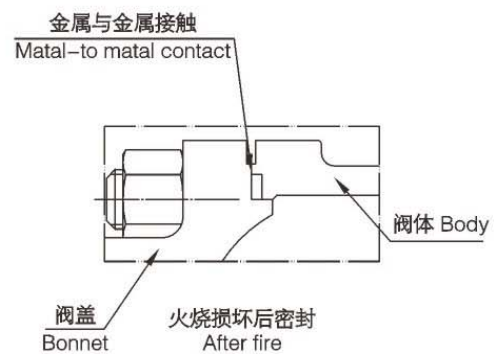
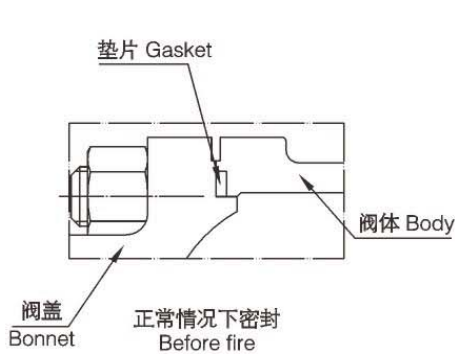
DAGO floating ball valves are manufactured according to BS 5351 specification, tested to BS6755/API598. The construction is side entry with full port or with reduced port. All valves can be supplied with lever, gear or actuator at client's demands.

1、防火结构设计

根据 API 607/API6FA规范。在阀门使用现场发生火灾时，非金属材料制作的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。

1. Fire Safe

Designed and tested to BS 5146/API607 to assure the operation available in case of fire.



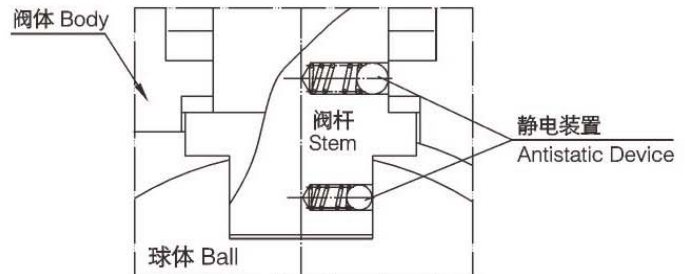
浮动球阀 Floating Ball Valve

2、防静电设计

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，从而使球体与密封圈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。

2. Antistatic

A metallic contact is always granted between ball and stem/body to discharge eventual statics build-up during service.

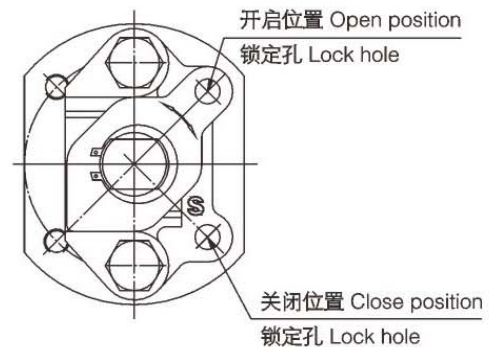


3、带锁定装置防止阀门误操作

设置了带锁孔的90°开关定位片与经过特别设计的填料压盖的配合，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方设计，扁方指示阀门的开关位置：当阀门开启时，手柄与阀杆扁方与管道平行，当阀门关闭时，手柄与阀杆扁方与管道垂直；能够确保阀门的开关指示不会发生错误。

3. Locking Device

To avoid misoperation, the valve may be locked by open or close position locking device with popular padlock design. It's very important to lock the valve to prevent the valve from being operated by error, especially when the valve is installed in field or the valve should not be be opened or closed during technical process.

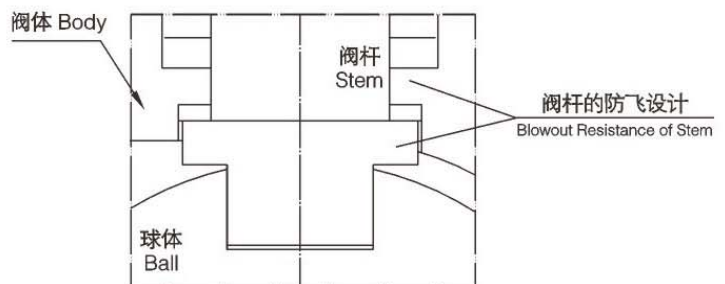


4、阀杆采用防飞结构设计

采用下装式阀杆设计，通过阀体上的台阶和填料箱螺钉的定位，确保任何情况下阀杆都不会被介质吹出。

4. Blowout Resistance of Stem

To prevent stem from being blow out by the pressure entrapped in valve cavity when the fluid flows through the valve, the lower part of stem is incorporated with a raised collar.



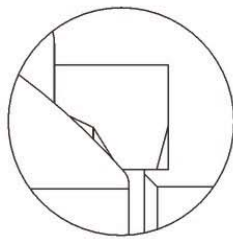
浮动球阀 Floating Ball Valve

5. 阀座的可靠性密封

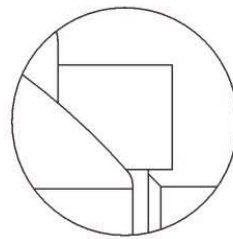
浮动球阀采用弹性密封圈结构设计，当介质压力较小时，密封圈与球体接触面积较小，密封圈与球体接触形成较大的密封比压，确保可靠密封，当介质压力较大时，随着密封圈的弹性变形，密封圈与球体的接触面积增大，故密封圈能承受大的介质推力而不会损坏。

5. The Reliable Seat Sealing

Floating ball valve uses 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

6. 驱动装置安装平台的设置

借助支架和联接套。便于安装任何型式的驱动装置。

6. The design of the top flange for actuator

The top flange with yoke and mounting plate is convenient to install the gear, electric and pneumatic actuator.

7. 全通径或缩径

可根据需要选用全通径或缩径结构，全通径阀门的流量孔与管线内径一致，便于管线的清扫。

7. Full port or reduced port

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

8. 加长阀杆

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，加长阀杆的尺寸按客户的要求。

8. Extended stem for underground

For the valves to be installed underground, the stem can be extended including all the relevant pipes, drain, vent and emergency sealant lines to be attached to the stem extension at the need of the installation or operation.

9. 低温加长阀盖

对于要求在低温下工作的阀门，通过加长阀盖，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。

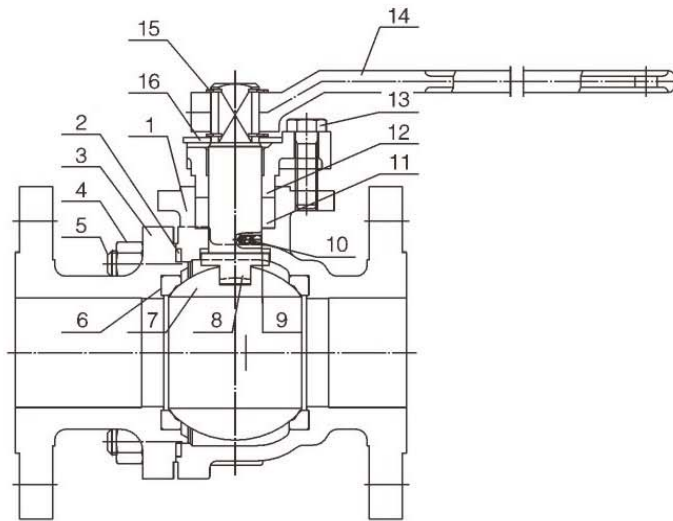
9. Extended stem for Low temperature

To avoid the valve's packing to be damaged in the low temperature and resulted in the bad sealing, the stem can be extended at the demands.

浮动球阀 Floating Ball Valve

Class 150/300 铸钢浮动球阀(全通径)

Class 150/300 Casting Steel Floating Ball Valve(Full Bore)



应用规范

压力-温度等级: ASME B16.34、BS5351

阀体壁厚: ASME B16.34、BS5351

阀门流道直径: API 6D、BS5351

结构长度: ASME B16.10、BS5351

法兰尺寸: ASME B16.5、BS2080

测试检查: API 598、API 6D、BS5146

阀体材料: WCB、LCB、LCC、CF8、
CF8M、CF3、CF3M

Technical Specification

Temp. & pressure: ASME B16.34、BS5351

Wall thickness: ASME B16.34、BS5351

Bore dimension: API 6D、BS5351

Face to face: ASME B16.10、BS5351

Flanges dimensions: ASME B16.5、BS2080

Test & inspection: API 598、API 6D、BS5146

Body material: WCB、LCB、LCC、CF8、
CF8M、CF3、CF3M

主要零部件材料 Form of Major Parts Material

序号 No.	零件名称 Parts Name	材料 Materials		
		碳钢系列 Carbon Steel	低温钢系列 Low Temp. Steel	不锈钢系列 Stainless Steel
1	阀体 Body	ASTM A216-WCB	ASTM A352-LCB/LCC	ASTM A351-CF8/CF8M
2	垫片 Gasket	304+Graphite	304+Graphite	304+Graphite
3	阀盖 Cap	ASTM A216-WCB	ASTM A352-LCB/LCC	ASTM A351-CF8/CF8M
4	螺母 Nut	ASTM A194-2H/2HM	ASTM A194-4	ASTM A194-8M/8
5	螺栓 Stud	ASTM A193-B7/B7M	ASTM A320-L7	ASTM A193-B8M/B8
6	阀座 Seat	PTFE	PTFE	PTFE
7	球体 Ball	ASTM A182-F304	ASTM A182-F304	ASTM A182-F304/F316
8	阀杆 Stem	ASTM A182-F304	ASTM A182-F304	ASTM A182-F304/F316
9	垫片 Gasket	304+PTFE	304+PTFE	304+PTFE
10	防静电装置 Antistatic device	ASTM A182-F304	ASTM A182-F304	ASTM A182-F304/F316
11	填料 Packing	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite
12	填料压盖 Packing gland	ASTM A216-WCB	ASTM A352-LCB/LCC	ASTM A351-CF8/CF8M
13	外六角螺栓 Screw	ASTM A193-B7/B7M	ASTM A320-L7	ASTM A193-B8M/B8
14	手柄 Lever	ASTM A216-WCB	ASTM A216-WCB	ASTM A216-WCB
15	弹性挡圈 Back stop	碳钢 Carbon Steel	碳钢 Carbon Steel	碳钢 Carbon Steel
16	限位块 Stopper plate	碳钢 Carbon Steel	碳钢 Carbon Steel	碳钢 Carbon Steel

球阀系列/BALL VALVE SERIES

浮动球阀 Floating Ball Valve

Class 150尺寸表 Dimension Chart

(mm)

Norm. Dia.	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10
流孔直径 Ball Bore	mm	15	20	25	40	50	65	80	100	125	150	200	250
L		108	117	127	165	178	190	203	229	356	394	457	533
H		84	88	95	120	130	160	185	210	220	295	335	
W		130	130	140	250	250	400	400	450	450	1050	1500	

1/2" ~ 4": 手柄操作 Lever operation

6" ~ 8": 手柄操作、蜗轮操作供客户选择 Lever or gear operation

10": 蜗轮操作 Gear operation

试验压力 Test pressure

强度(液) Shell(Hydrostatic): 3.10MPa(450psi)

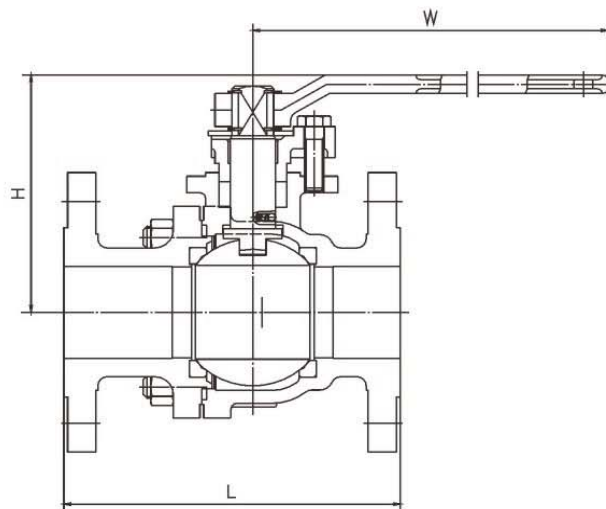
密封(气) Seat(Air): 0.55MPa(80psi)

密封(液) Seat(Hydrostatic): 2.17MPa(310psi)

填料和密封垫片材料按客户要求

Packing and gasket accordance with the requirements of clients.

球体和阀杆按客户要求 Ball and stem accordance with the requirements of clients.



Class 150

Class 300尺寸表 Dimension Chart

(mm)

Norm. Dia.	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8
流孔直径 Ball Bore	mm	15	20	25	40	50	65	80	100	125	150	200
L		140	152	165	191	216	241	283	305	381	403	502
H		84	88	95	120	140	160	180	208	220	335	
W		130	130	140	250	250	400	400	450	450	1050	

1/2" ~ 4": 手柄操作 Lever operation

6" ~ 8": 手柄操作、蜗轮操作供客户选择 Lever or gear operation

10": 蜗轮操作 Gear operation

试验压力 Test pressure

强度(液) Shell(Hydrostatic): 7.76MPa(1125psi)

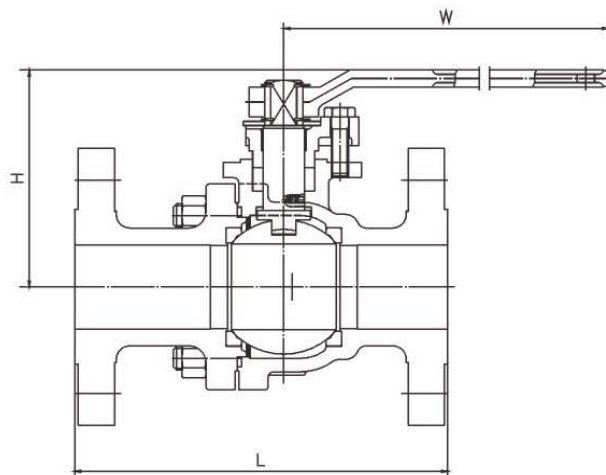
密封(气) Seat(Air): 0.55MPa(80psi)

密封(液) Seat(Hydrostatic): 5.62MPa(815psi)

填料和密封垫片材料按客户要求

Packing and gasket accordance with the requirements of clients.

球体和阀杆按客户要求 Ball and stem accordance with the requirements of clients.

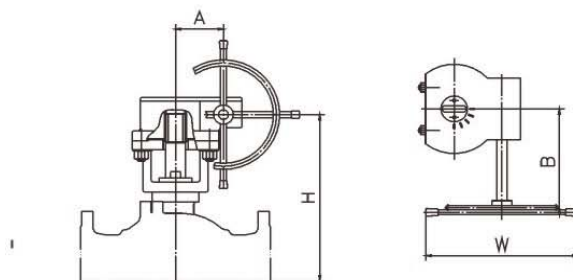


Class 300

蜗轮操作尺寸表 Gear Operation Dimention

(mm)

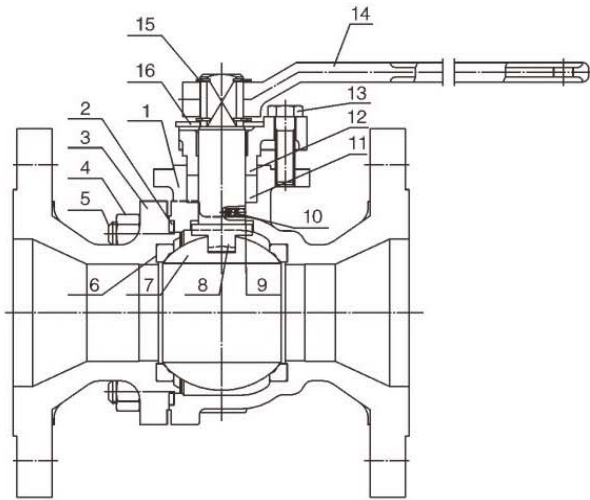
Class	150	300	蜗轮操作 Gear Operation			
			H	W	B	A
Valve size (inch)	6	6	325	350	205	125
	8	8	415	355	320	185
	10	-	475	165	140	160



浮动球阀 Floating Ball Valve

Class 150/300 铸钢浮动球阀(缩径)

Class 150/300 Casting Steel Floating Ball Valve(Reduced Bore)



应用规范

压力-温度等级: ASME B16.34、BS5351

阀体壁厚: ASME B16.34、BS5351

阀门流道直径: API 6D、BS5351

结构长度: ASME B16.10、BS5351

法兰尺寸: ASME B16.5、BS2080

测试检查: API 598、API 6D、BS5146

阀体材料: WCB、LCB、LCC、CF8、
CF8M、CF3、CF3M

Technical Specification

Temp. & pressure: ASME B16.34、BS5351

Wall thickness: ASME B16.34、BS5351

Bore dimension: API 6D、BS5351

Face to face: ASME B16.10、BS5351

Flanges dimensions: ASME B16.5、BS2080

Test & inspection: API 598、API 6D、BS5146

Body material: WCB、LCB、LCC、CF8、
CF8M、CF3、CF3M

主要零部件材料 Form of Major Parts Material

序号 No.	零件名称 Parts Name	材料 Materials		
		碳钢系列 Carbon Steel	低温钢系列 Low Temp. Steel	不锈钢系列 Stainless Steel
1	阀体 Body	ASTM A216-WCB	ASTM A352-LCB/LCC	ASTM A351-CF8/CF8M
2	垫片 Gasket	304+Graphite	304+Graphite	304+Graphite
3	阀盖 Cap	ASTM A216-WCB	ASTM A352-LCB/LCC	ASTM A351-CF8/CF8M
4	螺母 Nut	ASTM A194-2H/2HM	ASTM A194-4	ASTM A194-8M/8
5	螺栓 Stud	ASTM A193-B7/B7M	ASTM A320-L7	ASTM A193-B8M/B8
6	阀座 Seat	PTFE	PTFE	PTFE
7	球体 Ball	ASTM A182-F304	ASTM A182-F304	ASTM A182-F304/F316
8	阀杆 Stem	ASTM A182-F304	ASTM A182-F304	ASTM A182-F304/F316
9	垫片 Gasket	304+PTFE	304+PTFE	304+PTFE
10	防静电装置 Antistatic device	ASTM A182-F304	ASTM A182-F304	ASTM A182-F304/F316
11	填料 Packing	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite
12	填料压盖 Packing gland	ASTM A216-WCB	ASTM A352-LCB/LCC	ASTM A351-CF8/CF8M
13	外六角螺栓 Screw	ASTM A193-B7/B7M	ASTM A320-L7	ASTM A193-B8M/B8
14	手柄 Lever	ASTM A216-WCB	ASTM A216-WCB	ASTM A216-WCB
15	弹性挡圈 Back stop	碳钢 Carbon Steel	碳钢 Carbon Steel	碳钢 Carbon Steel
16	限位块 Stopper plate	碳钢 Carbon Steel	碳钢 Carbon Steel	碳钢 Carbon Steel

球阀系列/BALL VALVE SERIES

浮动球阀 Floating Ball Valve

Class 150尺寸表 Dimension Chart

(mm)

Norm. Dia.	in	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10
流孔直径 Ball Bore	mm	20	25	40	50	65	80	100	125	150	200	250
L		117	127	165	178	190	203	229	356	394	457	533
H		84	88	95	120	130	160	185	210	220	295	335
W		130	130	140	250	250	400	400	450	450	1050	1500

3/4" ~ 6": 手柄操作 Lever operation

6" ~ 8": 手柄操作、蜗轮操作供客户选择 Lever or gear operation

10": 蜗轮操作 Gear operation

试验压力 Test pressure

强度(液) Shell(Hydrostatic): 3.10MPa(450psi)

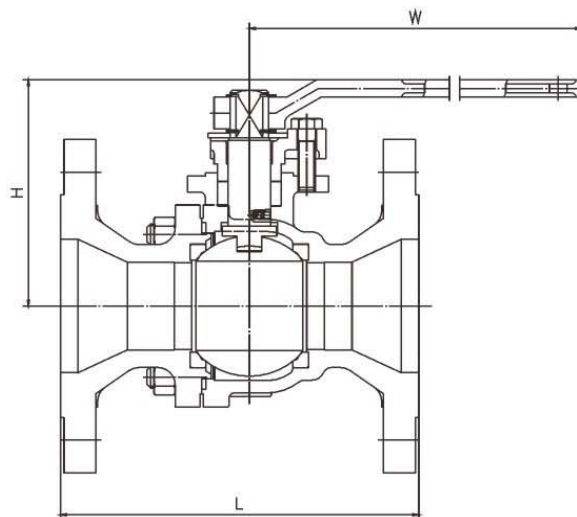
密封(气) Seat(Air): 0.55MPa(80psi)

密封(液) Seat(Hydrostatic): 2.17MPa(310psi)

填料和密封垫片材料按客户要求

Packing and gasket accordance with the requirements of clients.

球体和阀杆按客户要求 Ball and stem accordance with the requirements of clients.



Class 150

Class 300尺寸表 Dimension Chart

(mm)

Norm. Dia.	in	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8
流孔直径 Ball Bore	mm	20	25	40	50	65	80	100	125	150	200
L		152	165	191	216	241	283	305	381	402	502
H		84	88	95	120	140	160	180	208	220	335
W		130	130	140	250	250	400	400	450	450	1050

3/4" ~ 6": 手柄操作 Lever operation

6" ~ 8": 手柄操作、蜗轮操作供客户选择 Lever or gear operation

10": 蜗轮操作 Gear operation

试验压力 Test pressure

强度(液) Shell(Hydrostatic): 7.76MPa(1125psi)

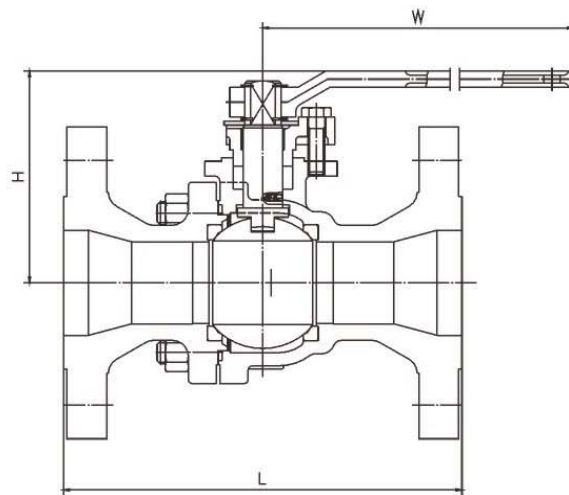
密封(气) Seat(Air): 0.55MPa(80psi)

密封(液) Seat(Hydrostatic): 5.62MPa(815psi)

填料和密封垫片材料按客户要求

Packing and gasket accordance with the requirements of clients.

球体和阀杆按客户要求 Ball and stem accordance with the requirements of clients.

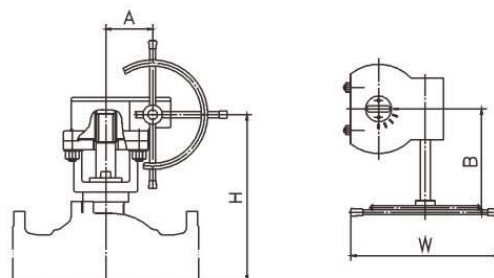


Class 300

蜗轮操作尺寸表 Gear Operation Dimention

(mm)

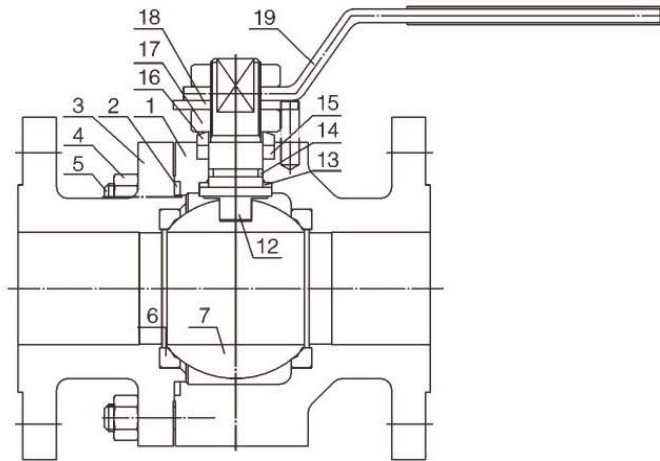
Class	150	300	蜗轮操作 Gear Operation			
			H	W	B	A
Valve size (inch)	6	6	255	300	148	95
	8	8	325	350	205	125
	10	10	415	355	320	185



浮动球阀 Floating Ball Valve

Class 150/300 锻钢浮动球阀

Class 150/300 Forged Steel Floating Ball Valve



应用规范

压力-温度等级: ASME B16.34、BS5351

阀体壁厚: ASME B16.34、BS5351

阀门流道直径: API 6D、BS5351

结构长度: ASME B16.10、BS5351

法兰尺寸: ASME B16.5、BS2080

测试检查: API 598、API 6D、BS5146

阀体材料: ASTM A105、A350 LF2、A350 LF3、
A182 F304、A182 F316、A182 F304L、
A182 F316L、A182 F11、A182 F22

Technical Specification

Temp. & pressure: ASME B16.34、BS5351

Wall thickness: ASME B16.34、BS5351

Bore dimension: API 6D、BS5351

Face to face: ASME B16.10、BS5351

Flanges dimensions: ASME B16.5、BS2080

Test & inspection: API 598、API 6D、BS5146

Body material: ASTM A105、A350 LF2、
A350 LF3、A182 F304、A182 F316、
A182 F304L、A182 F316L、A182 F11、
A182 F22

主要零部件材料 Form of Major Parts Material

序号 No.	零件名称 Parts Name	材料 Materials		
		碳钢系列 Carbon Steel	低温钢系列 Low Temp. Steel	不锈钢系列 Stainless Steel
1	阀体 Body	ASTM A105	ASTM A350 LF2	ASTM A182 F316
2	O型密封圈 O-ring	VTION	VTION	VTION
3	阀盖 Cap	ASTM A105	ASTM A350 LF2	ASTM A182 F316
4	螺母 Nut	ASTM A194-2H/2HM	ASTM A194-4	ASTM A194-8/8M
5	螺栓 Stud	ASTM A193-B7/B7M	ASTM A320-L7	ASTM A193-B8/B8M
6	阀座 Seat	PTFE	PTFE	PTFE
7	球 Ball	ASTM A105+ENP	ASTM A350 LF2+ENP	ASTM A182 F316
12	阀杆 Stem	ASTM A182-F6a	ASTM A182 F6a	ASTM A182 F316
13	阀杆垫片 Stem washer	304+PTFE	304+PTFE	304+PTFE
14	O型密封圈 O-ring	VTION	VTION	VTION
15	填料 Packing	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite
16	填料压套 Gland	碳钢 Carbon Steel	碳钢 Carbon Steel	不锈钢 Stainless Steel
17	螺母 Nut	ASTM A194-2H/2HM	ASTM A194-4	ASTM A194-8/8M
18	限位块 Stopper plate	碳钢 Carbon Steel	碳钢 Carbon Steel	碳钢 Carbon Steel
19	手柄 Lever	碳钢 Carbon Steel	碳钢 Carbon Steel	碳钢 Carbon Steel

球阀系列/BALL VALVE SERIES

浮动球阀 Floating Ball Valve

Class 150尺寸表 Dimension Chart

(mm)

Norm. Dia.	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10
	mm	15	20	25	40	50	65	80	100	125	150	200	250
流孔直径 Ball Bore		15	20	25	40	50	65	80	100	125	150	200	250
L		108	117	127	165	178	190	203	229	356	394	457	533
H		84	88	95	120	140	160	180	208	220	335		
W		130	130	140	250	250	400	400	450	450	1050		

1/2" ~ 4": 手柄操作 Lever operation

6" ~ 8": 手柄操作、蜗轮操作供客户选择 Lever or gear operation

10": 蜗轮操作 Gear operation

试验压力 Test pressure

强度(液) Shell(Hydrostatic): 3.10MPa(450psi)

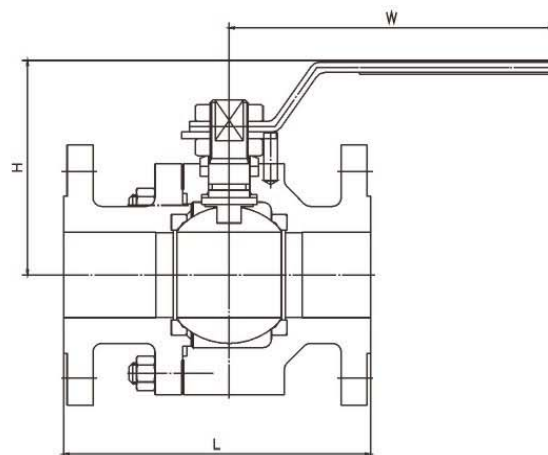
密封(气) Seat(Air): 0.55MPa(80psi)

密封(液) Seat(Hydrostatic): 2.17MPa(310psi)

填料和密封垫片材料按客户要求

Packing and gasket accordance with the requirements of clients.

球体和阀杆按客户要求 Ball and stem accordance with the requirements of clients.



Class 150

Class 300尺寸表 Dimension Chart

(mm)

Norm. Dia.	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8
	mm	15	20	25	40	50	65	80	100	125	150	200
流孔直径 Ball Bore		15	20	25	40	50	65	80	100	125	150	200
L		140	152	165	191	216	241	283	305	381	403	502
H		84	88	95	120	140	160	180	208	220	335	
W		130	130	140	250	250	400	400	450	450	1050	

1/2" ~ 4": 手柄操作 Lever operation

6" ~ 8": 手柄操作、蜗轮操作供客户选择 Lever or gear operation

10": 蜗轮操作 Gear operation

试验压力 Test pressure

强度(液) Shell(Hydrostatic): 7.76MPa(1125psi)

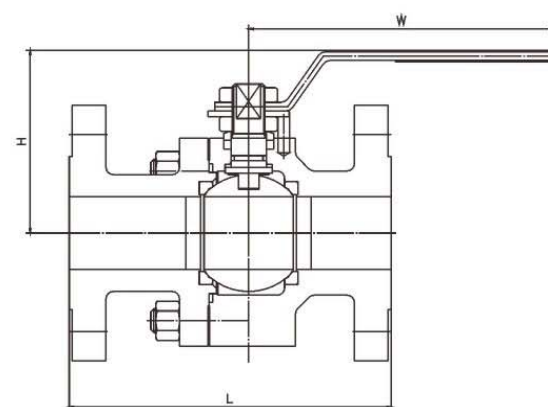
密封(气) Seat(Air): 0.55MPa(80psi)

密封(液) Seat(Hydrostatic): 5.62MPa(815psi)

填料和密封垫片材料按客户要求

Packing and gasket accordance with the requirements of clients.

球体和阀杆按客户要求 Ball and stem accordance with the requirements of clients.



Class 300