



## 公司简介 <<< COMPANY INTRODUCTION

河北光德流体控制有限公司创建于1996年，是一家集设计、铸造、加工、组装、检验与测试、市场与服务于一体，具备20年行业经验的国家高新技术企业，年生产阀门百万套，产品85%一直畅销欧洲、美国、日本及世界各地。

公司现有员工600余人，各类技术人员60人。占地面积6.7万平方米，拥有4条精密铸造生产线，200余台CNC车床与加工中心，各类加工设备及专用机100余台，配有先进的光谱仪，化学分析仪，金相显微镜，硬度计，万能材料试验机，试压机，并从日本(MITUTOYO三丰)引进了投影仪，圆度仪，粗糙度仪及三坐标测量仪，阀门寿命测试机，耐火试验平台等先进的检测设备来保障产品的制造质量。

一、主要产品：法兰球阀、螺纹球阀、全焊接球阀、不锈钢螺纹管件、卡压式管件、罐式集装箱专用阀门等各种管道专用阀门及自动控制元件(气动、电动)。

二、产品标准：API, ASME, ISO, EN, DIN, BS, JIS, GB。

三、压力等级：GB PN(16/25/40/63/100/160)、ASME CLASS(150/300/600/900/1500)、DIN PN(16/25/40/63/100/160)、JIS (10K/20K/30K/40K/63K/110K)。

四、主要材质：CF8M, CF8, CF3M, CF3, CN7M, WCB, WCC, WC6, WC9, C5及其他客户需求的其他材质。

五、资质证书：API6D, API608, API607, TSG, ISO9001, ISO14001, OHSAS18001, DVGW W534, CE, TS 16949, SIL。

We, GRANDE-TEK FLOW CONTROL CO.,LTD. has been established in 1996, and we are developing with intergrated in designing, casting, machining, assembling, testing & inspection, marketing and service, with 20 years' experience in high-tech industry. And 85% of our products have been exporting to Europe, USA, Japan and any other countries.

600 staffs, of whom 60 technician and engineers, 4 precision casting lines, 200 CNC lathes and other processing equipments, and it covers an area of 67000m<sup>2</sup>.

Full set of advanced testing and inspection equipments, such as spectrometers, chemistry analyzers, metallurgical microscope, sclerometer, roundness measuring instrument, rough meter and three-coordinate measuring instrument, valve life-cycle test machine and fire-test equipment to ensure the quality.

**Main products:** Flanged ball valves, Threaded ball valves, Fully welded ball valves, Automation valves, Threaded fittings, Press fittings, Tank valves and spare parts,etc.

**Design stardards:** API, ASME, ISO, EN, BS, DIN, JIS, GB.

**Pressure rating:** Class 150/300/600/900/1500

PN 16/25/40/63/100/160

JIS 10K/20K/30K/40K/63K/110K

**Material:** CF8M, CF8, CF3, CF3M, CN7M, LCB, WCB, WC6, WC9, C5 and other material upon your request.

**Certificate:** API6D, API608, API607, TSG, ISO9001, ISO14001, OHSAS18001, DVGW W534, CE, TS 16949, SIL.

# 生产场景 PRODUCTION SITE

光德流控  
GRANDE-TEK



加工中心 Machining center



大型立车 Large vertical lathe



龙门铣床 Planomilling machine



精密加工区 Precision machining



机械臂 ABB robot



组装 Assembling



光谱仪  
Spectrometer



三坐标仪  
3-coordinate measuring instrument



超声波测厚仪  
Ultrasonic thickness meter



防火测试机  
Fire-safe testing equipment



摆锤式冲击试验机  
Impact testing



压力, 扭矩, 寿命综合测试机  
Pressure, Torque and Life cycle testing machine



阀门寿命测试机  
Life cycle testing



天准影像仪  
Projector



圆度仪  
Roundness



手持式光谱分析仪  
Portable spectrometer

# 资质证书 COMPANY CERTIFICATE



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#### Floating Flanged Ball Valve

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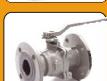
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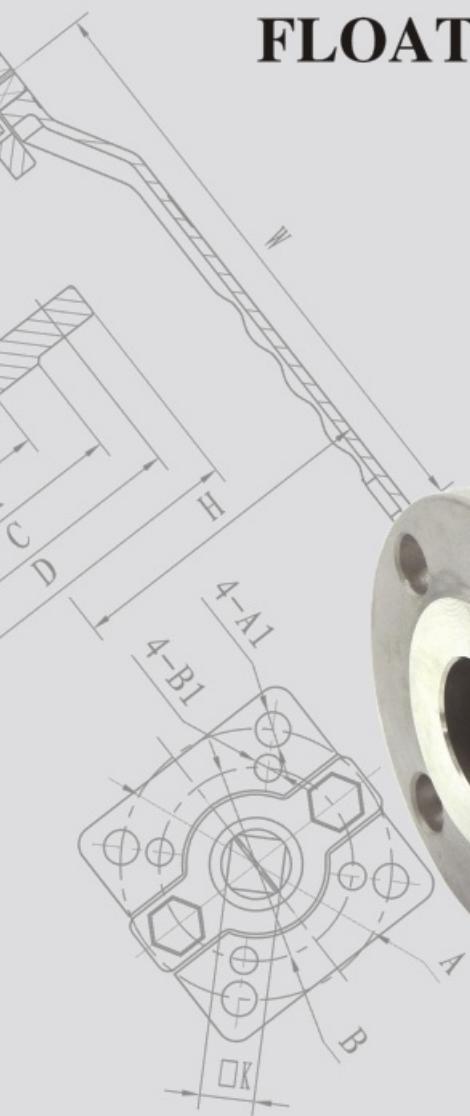
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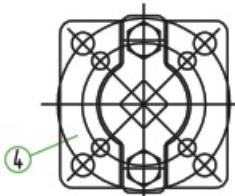


光德流控  
GRANDE-TEK

# 浮动球法兰球阀

FLOATING FLANGED BALL VALVE

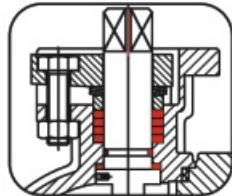




### ① 阀杆多重密封设计 Stem multiple seal design

底部垫片+O型圈+填料多重密封，有效保证阀杆上部密封部位不会产生泄漏。

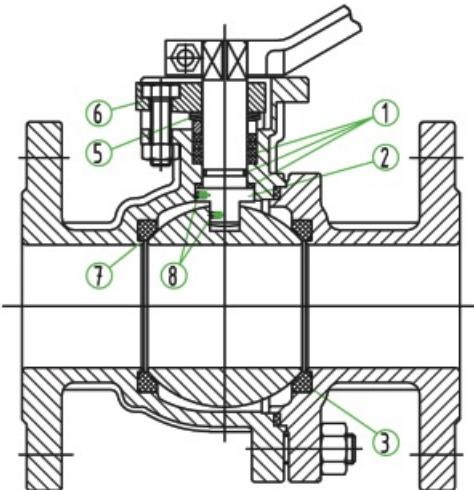
The bottom gasket + o-ring + packing multiple seal, effectively ensure that the upper sealing part of the stem does not leak.



### ② 阀杆防吹出设计 Stem blowout design

采用下装式阀杆，阀杆下部设有轴肩，即使拆掉压盖栓接螺母，阀杆也不会因腔体内压而吹出阀体，确保人身安全。

Use the lower mounted valve stem, the lower part of the stem is provided with a shaft shoulder. Even if the nut is removed, the stem will not blow out of the body to ensure the safety of the body.



### ③ 阀座弹性密封设计 Seat resilient seal design

阀座密封部位采用弹性结构设计，有效降低阀杆操作扭矩，启闭轻松，低压、高压密封可靠。

The seat sealing part is designed with elastic structure, which can effectively reduce the valve stem operation torque, and the opening and closing are easy, and the low pressure and high pressure seal are reliable.



### ⑦ 防火安全结构设计 Fire-safe design

当周边发生火灾时，阀座受热烧毁，球体在介质作用下向后移动，与阀体防火唇接触，起到辅助密封，减小介质内漏。

When a fire breaks out in the surrounding area, the valve seat is burned, and the ball moves backward under the force of the medium, contacting with the body's fire-proof lip to assist in sealing and reducing medium leakage .



燃烧前 Before burning



燃烧后 After burning

### ④ 符合ISO5211高平台设计 Comply with ISO5211 high platform design

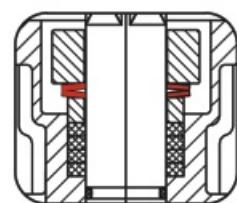
ISO 5211标准安装平台，与阀体一体，执行器可直接安装，安装方便，经济可靠。

ISO 5211 standard installation platform, integrated with the body, the actuator can be installed directly, easy to install, economical and reliable.

### ⑤ 双层蝶形弹片装置设计 Design of double butterfly shrapnel device

被预先压紧的两片蝶形弹片在阀杆出现微漏时会起到补偿的作用，释放其预紧的变形，再次压紧填料，确保填料持久密封。

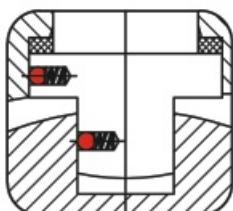
The two pieces of butterfly shears pressed in advance will compensate for the leakage of the valve stem, release its pretensioned deformation, and press the packing again to ensure the sealing of the packing.



### (8) 防静电设计 Antistatic design

阀杆下部采用防静电结构设计，使钢球在弹簧推动下始终与球槽或阀体紧密接触，可将球体与阀座摩擦产生的静电通过阀杆传到阀体而释放。

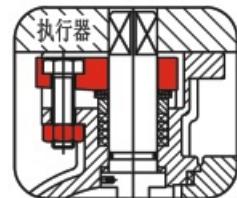
Lower part of the valve stem use anti-static structure design, make steel ball under the spring push always closely contact with the ball groove or body, can release static electricity out fricative by ball and seat,through stem to body.



### ⑥ 下沉式压盖设计 Design of the sunken gland

填料压盖凹入平台，不影响执行器安装，当长期使用发生填料泄漏时，只需紧固下部螺母可将填料压紧，执行器不用拆卸。

The packing gland is concave into the platform, which does not affect the actuator installation. when used for a long time, the packing gland can be pressed tightly only fastening the nut, and the actuator is not disassembled.



### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: GB/T 12237

标准级数 Rating: PN16 /PN25 /PN40

结构长度 Face to Face: GB/T 12221

法兰标准 Flange: GB/T 9113

试验标准 Inspection: GB/T 26480

### 设计特点 Design features

1. 阀杆部位垫片+O型圈+填料多重密封

Stem area gasket +O ring + packing multiple seal.

2. 双蝶型弹片动负载压紧填料

Dynamic load pressure stem packing.

3. 防吹出阀杆设计 Blow-out proof stem.

4. 防火、防静电结构

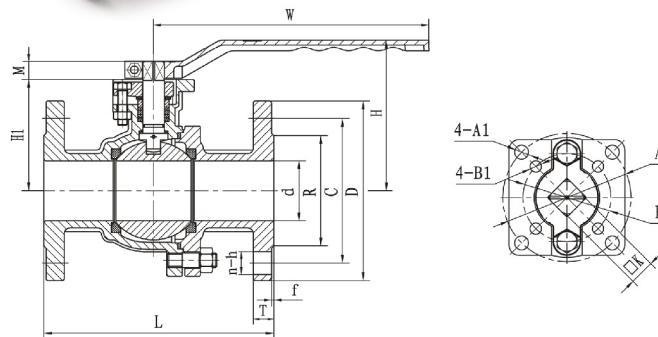
Fire-proof and anti-static structure.

5. 阀座弹性密封设计 Seat resilient seal design.

6. ISO 5211标准执行器安装平台设计

ISO 5211 standard actuator mounting pad.

7. 下沉式压盖设计Design of the sunken gland.



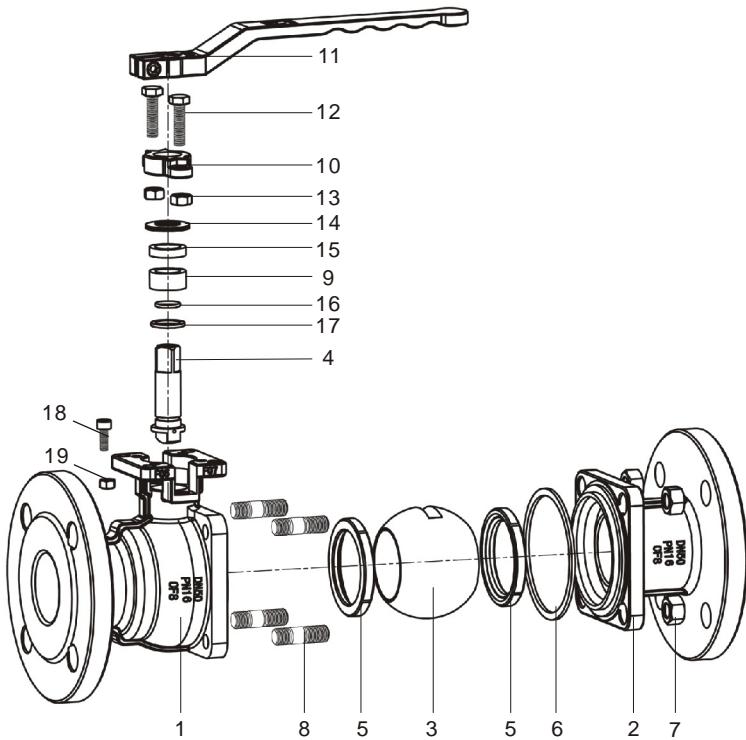
**PN16**

DN	外形尺寸 Dimension			法兰尺寸 Flange dimension								顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1	
15	130	79	165	15	95	16	2	45	65	4-Φ14	F03/F05	50	7	36	6	9	9	50	
20	130	84	165	20	105	18	2	58	75	4-Φ14	F03/F05	50	7	36	6	9	9	55	
25	140	95	200	25	115	18	2	68	85	4-Φ14	F04/F05	50	7	42	6	11	11	63	
32	165	104	200	32	140	18	2	78	100	4-Φ18	F04/F05	50	7	42	6	11	11	72	
40	165	111	230	38	150	18	3	88	110	4-Φ18	F05/F07	70	9	50	7	14	14	79	
50	203	120	230	50	165	20	3	102	125	4-Φ18	F05/F07	70	9	50	7	14	14	87.5	
65	222	155	280	65	185	18	3	122	145	8-Φ18	F07/F10	102	11	70	9	17	17	115	
80	241	164	280	76	200	20	3	138	160	8-Φ18	F07/F10	102	11	70	9	17	17	124	
100	305	188	350	100	220	20	3	158	180	8-Φ18	F07/F10	102	11	70	9	17	17	148	
125	356	262	705	125	250	22	3	188	210	8-Φ18	F10/F12	125	13	102	11	27	30	186	
150	394	285	705	151	285	22	3	212	240	8-Φ22	F10/F12	125	13	102	11	27	30	208	
200	457	339	1000	202	340	24	3	268	295	12-Φ22	F12/F14	140	17	125	13	30	34	265	

**PN25/40**

DN	外形尺寸 Dimension			法兰尺寸 Flange dimension								顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1	
15	130	79	165	15	95	16	2	45	65	4-Φ14	F03/F05	50	7	36	6	9	9	50	
20	130	84	165	20	105	18	2	58	75	4-Φ14	F03/F05	50	7	36	6	9	9	55	
25	140	95	200	25	115	18	2	68	85	4-Φ14	F04/F05	50	7	42	6	11	11	63	
32	165	104	200	32	140	18	2	78	100	4-Φ18	F04/F05	50	7	42	6	11	11	72	
40	165	111	230	38	150	18	3	88	110	4-Φ18	F05/F07	70	9	50	7	14	14	79	
50	203	120	230	50	165	20	3	102	125	4-Φ18	F05/F07	70	9	50	7	14	14	87.5	
65	290	165	465	64	185	22	3	122	145	8-Φ18	F10	102	12	-	-	17	17	115	
80	310	173	465	76	200	24	3	138	160	8-Φ18	F10	102	12	-	-	17	17	124	
100	350	205	465	100	235	24	3	162	190	8-Φ22	F10	102	12	-	-	22	22	148	
125	381	250	705	125	270	26	3	188	220	8-Φ26	F12	125	14	-	-	27	30	186	
150	403	317	705	151	300	28	3	218	250	8-Φ26	F14	140	18	-	-	36	40	208	

组装图 Part Drawing



序号 No.	零件名称 Parts Name	材质 Material		
1	阀体 Body	WCB	CF8	CF8M
2	侧体 Cap	WCB	CF8	CF8M
3	球体 Ball	304	304	316
4	阀杆 Stem	12Cr13	304	316
5	阀座 Seat	PTFE / PTFE+15%玻纤GF / PTFE+15%碳纤Carbon / TFM1600等		
6	密封垫圈 Sealing gasket	304缠绕+石墨/PTFE 304+Graphite/PTFE	304缠绕+石墨/PTFE 304+Graphite/PTFE	316缠绕+石墨/PTFE 316+Graphite/PTFE
7	螺母 Nut	45	A2-70	A2-70
8	螺柱 Stud	35CrMo	A2-70	A2-70
9	填料 Packing	柔性石墨Graphite / PTFE		
10	填料压板 Packing gland	WCB	CF8	CF8
11	手柄 Handle	CF8	CF8	CF8
12	六角螺栓 Bolt	8.8级	A2-70	A2-70
13	六角螺母 Nut	8级	A2-70	A2-70
14	蝶形弹片 Disc spring	SS301	SS301	SS301
15	压环 Gland	304	304	316
16	O型圈 O-ring	Viton/FKM	Viton/FKM	Viton/FKM
17	止推垫圈 Thrust washer	PTFE/RPTFE	PTFE/RPTFE	PTFE/RPTFE
18	内六角圆柱头螺钉 Screw	4.8级	A2-50	A2-50
19	六角螺母 Nut	4级	A2-50	A2-50

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: GB/T 12237

标准级数 Rating: PN16

结构长度 Face to Face: GB/T 12221

法兰标准 Flange: GB/T 9113

试验标准 Inspection: GB/T 26480



### 设计特点 Design features

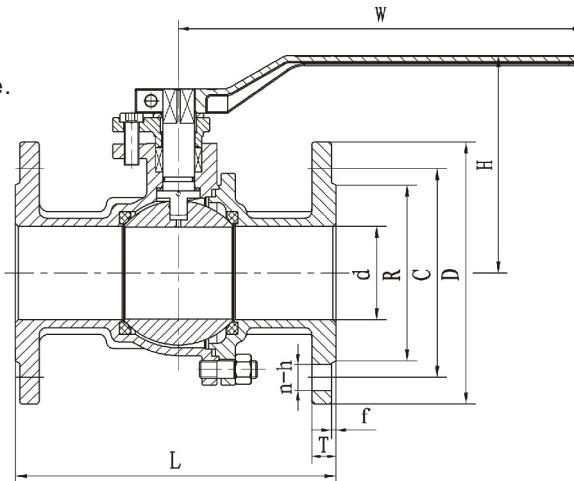
1、阀杆部位垫片+O型圈+填料多重密封

Stem area gasket +O ring + packing multiple seal.

2、防吹出阀杆设计 Blow-out proof stem

3、防火、防静电结构 Fire-proof and anti-static structure.

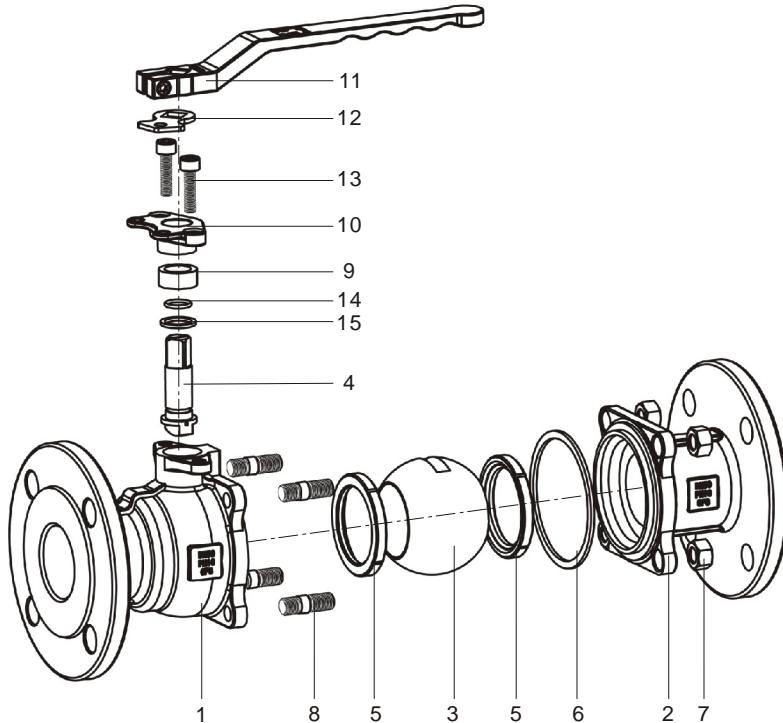
4、阀座弹性密封设计 Seat resilient seal design.



**PN16**

DN	外形尺寸 Dimension			法兰尺寸 Flange dimension								
	L	H	W	d	D	T	f	R	C	n-h	阀杆方头 Stem	
15	130	79	165	15	95	16	2	45	65	4- $\Phi$ 14	9	
20	130	83	165	20	105	18	2	58	75	4- $\Phi$ 14	9	
25	140	92.5	200	25	115	18	2	68	85	4- $\Phi$ 14	11	
32	165	101.5	200	32	140	18	2	78	100	4- $\Phi$ 18	11	
40	165	109	230	38	150	18	3	88	110	4- $\Phi$ 18	14	
50	203	117.5	230	50	165	18	3	102	125	4- $\Phi$ 18	14	
65	222	151	280	65	185	18	3	122	145	8- $\Phi$ 18	17	
80	241	161	280	76	200	20	3	138	160	8- $\Phi$ 18	17	
100	305	184	350	100	220	20	3	158	180	8- $\Phi$ 18	17	

组装图 Part Drawing



序号 No.	零件名称 Parts Name	材质 Material		
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2	侧体 Cap	WCB	CF8	CF8M
3	球体 Ball	304	304	316
4	阀杆 Stem	12Cr13	304	316
5	阀座 Seat	PTFE / PTFE+15%玻纤GF / PTFE+15%碳纤Carbon / TFM1600等		
6	密封垫圈 Sealing gasket	304缠绕+石墨/PTFE 304+Graphite/PTFE	304缠绕+石墨/PTFE 304+Graphite/PTFE	316缠绕+石墨/PTFE 316+Graphite/PTFE
7	螺母 Nut	35CrMo	A2-70	A2-70
8	螺柱 Stud	45	A2-70	A2-70
9	填料 Packing	柔性石墨Graphite / PTFE		
10	填料压板 Packing gland	WCB	CF8	CF8M
11	手柄 Handle	CF8	CF8	CF8
12	定位块 Location block	304	304	304
13	内六角圆柱头螺钉 Screw	8.8级	A2-70	A2-70
14	O型圈 O-ring	Viton/FKM	Viton/FKM	Viton/FKM
15	止推垫圈 Thrust washer	PTFE/RPTFE	PTFE/RPTFE	PTFE/RPTFE

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: DIN 3357-2

标准级数 Rating: PN16

结构长度 Face to Face: 工厂标准 MFR STD

法兰标准 Flange: DIN 2543

试验标准 Inspection: EN 12266-1



### 设计特点 Design features

1、对夹式 Wafer type.

1、阀杆部位垫片+O型圈+填料多重密封

Stem area gasket +O ring + packing multiple seal.

2、双蝶型弹片动负载压紧填料

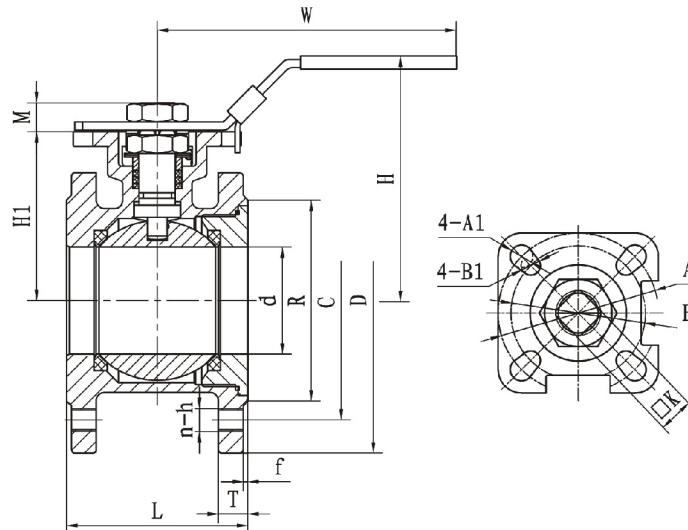
Dynamic load pressure stem packing.

3、防吹出阀杆设计 Blow-out proof stem.

4、防静电结构 Anti-static structure.

6、ISO 5211标准执行器安装平台设计

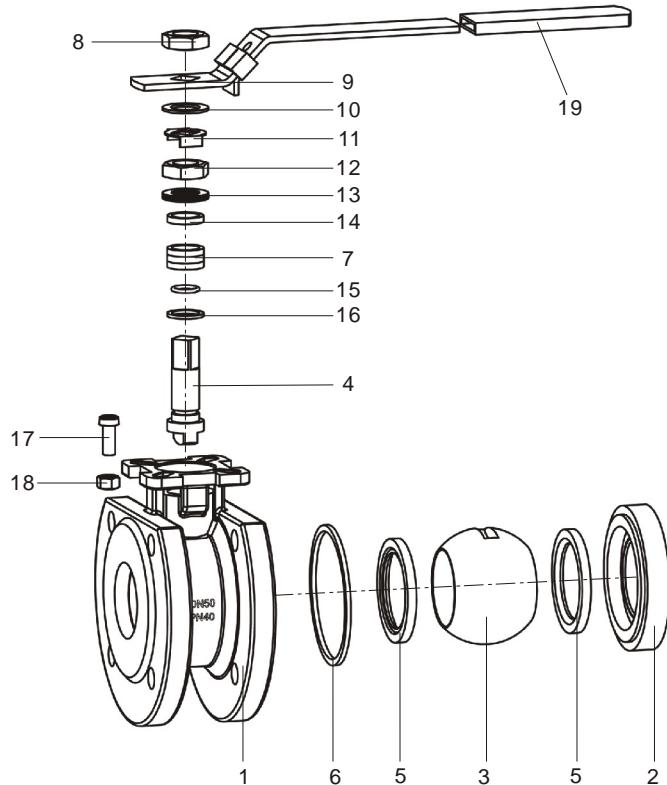
ISO 5211 standard actuator mounting pad.



### PN16

DN	外形尺寸 Dimension			法兰尺寸 Flange dimension								顶部连接尺寸 Top connection size								
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1		
15	42	81	141	15	95	9	2	45	65	4-M12	F03/F04	42	6	36	6	9	9	48		
20	44	86	141	20	105	9	2	58	75	4-M12	F03/F04	42	6	36	6	9	9	53		
25	50	99	162	25	115	9	2	68	85	4-M12	F04/F05	50	7	42	6	11	11	62		
32	60	109	162	32	140	12	2	78	100	4-M16	F04/F05	50	7	42	6	11	11	72		
40	65	117	188	38	150	13	3	88	110	4-M16	F05/F07	70	9	50	7	14	14	78		
50	80	125	188	50	165	20	3	102	125	4-M16	F05/F07	70	9	50	7	14	14	86		
65	110	150	233	65	185	18	3	122	145	4-M16	F07/F10	102	11	70	9	17	17	103		
80	120	158	233	76	200	20	3	138	160	8-M16	F07/F10	102	11	70	9	17	17	111.5		
100	150	193	318	94	220	20	3	158	180	8-M16	F10	102	11	—	—	22	22	139.5		

组装图 Part Drawing



序号 No.	零件名称 Parts Name	材质 Material		
1	阀体 Body	1.0619	1.4308	1.4408
2	侧塞 Cap	1.0619	1.4308	1.4408
3	球体 Ball	A182-F304	A182-F304	A182-F316
4	阀杆 Stem	A276-410	A276-304	A276-316
5	阀座 Seat	PTFE / PTFE+15%玻纤GF / PTFE+15%碳纤Carbon / TFM1600等		
6	密封垫圈 Sealing gasket	PTFE / RPTFE		
7	填料 Packing	PTFE / RPTFE		
8	薄型螺母 Thin nut	304	304	304
9	带锁手柄 Lock handle	304	304	304
10	垫圈 Washer	304	304	304
11	防松垫片 Check washer	304	304	304
12	薄型螺母 Thin nut	304	304	304
13	蝶形弹片 Disc spring	SS301	SS301	SS301
14	压环 Gland	304	304	316
15	O型圈 O-ring	Viton/FKM	Viton/FKM	Viton/FKM
16	止推垫圈 Thrust washer	PTFE/RPTFE	PTFE/RPTFE	PTFE/RPTFE
17	内六角圆柱头螺钉 Screw	A193-B7	304	304
18	六角螺母 Nut	A194-2H	304	304
19	手柄套 Handle cover	PVC	PVC	PVC

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: DIN 3357-2

标准级数 Rating: PN16 /PN25 /PN40

结构长度 Face to Face: EN 558

法兰标准 Flange: EN 1092-1

试验标准 Inspection: EN 12266-1

### 设计特点 Design features

1、阀杆部位垫片+O型圈+填料多重密封

Stem area gasket +O ring + packing multiple seal.

2、双蝶型弹片动负载压紧填料

Dynamic load pressure stem packing.

3、防吹出阀杆设计

Blow-out proof stem.

4、防火、防静电结构

Fire-proof and anti-static structure.

5、阀座弹性密封设计

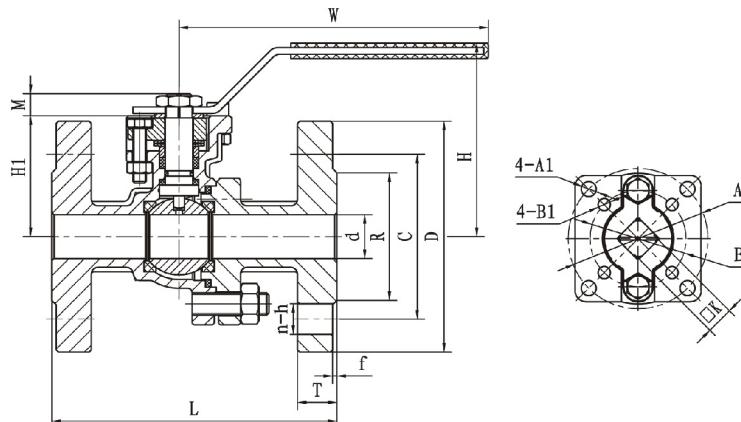
Seat resilient seal design.

6、ISO 5211标准执行器安装平台设计

ISO 5211 standard actuator mounting pad.

7、下沉式压盖设计

Design of the sunken gland.



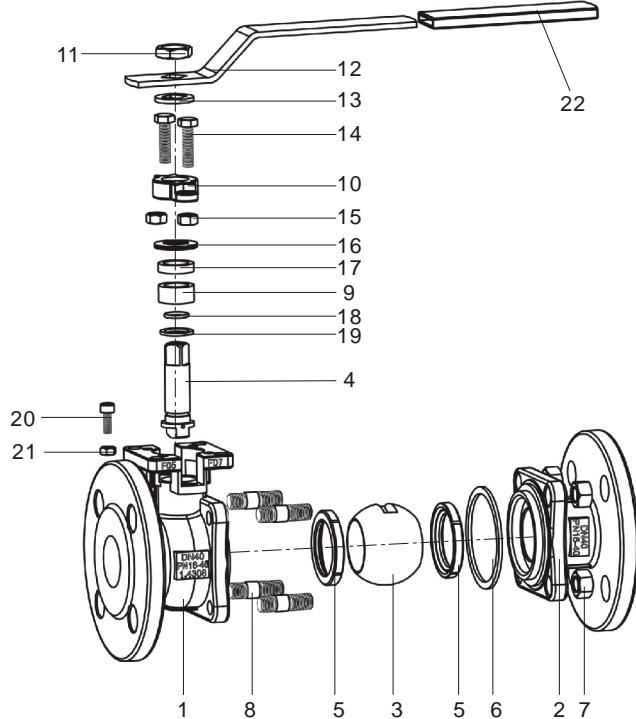
### PN16/25/40

DN	外形尺寸 Dimension			法兰尺寸 Flange dimension								顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1	
15	115	88	162	15	95	16	2	45	65	4- $\phi$ 14	F03/F05	50	7	36	6	9	9	50	
20	120	93	162	20	105	18	2	58	75	4- $\phi$ 14	F03/F05	50	7	36	6	9	9	55	
25	125	101	162	25	115	18	2	68	85	4- $\phi$ 14	F04/F05	50	7	42	6	11	11	63	
32	130	110	162	32	140	18	2	78	100	4- $\phi$ 18	F04/F05	50	7	42	6	11	11	72	
40	140	119	217	38	150	18	3	88	110	4- $\phi$ 18	F05/F07	70	9	50	7	14	14	79	
50	150	127	217	50	165	20	3	102	125	4- $\phi$ 18	F05/F07	70	9	50	7	14	14	87.5	

### PN16

DN	外形尺寸 Dimension			法兰尺寸 Flange dimension								顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1	
65	170	163	253	65	185	18	3	122	145	4- $\phi$ 18	F07/F10	102	12	70	10	17	18	115	
80	180	172	253	76	200	20	3	138	160	8- $\phi$ 18	F07/F10	102	12	70	10	17	18	124	
100	190	201	353	100	220	20	3	158	180	8- $\phi$ 18	F07/F10	102	12	70	10	17	18	148	
125	325	250	705	125	250	21	3	188	210	8- $\phi$ 18	F10/F12	125	13	102	11	27	27	166	
150	350	271	705	150	285	21	3	212	240	8- $\phi$ 22	F10/F12	125	13	102	11	27	27	184	
200	400	303	1000	200	340	23	3	266	295	12- $\phi$ 22	F12/F14	140	17	125	13	30	30	246	

组装图 Part Drawing



序号 No.	零件名称 Parts Name	材质 Material		
1	阀体 Body	1.0619	1.4308	1.4408
2	侧体 Cap	1.0619	1.4308	1.4408
3	球体 Ball	A182-F304	A182-F304	A182-F316
4	阀杆 Stem	A276-410	A276-304	A276-316
5	阀座 Seat	PTFE / PTFE+15%玻纤GF / PTFE+15%碳纤Carbon / TFM1600等		
6	密封垫圈 Sealing gasket	304缠绕+石墨/PTFE 304+Graphite/PTFE	304缠绕+石墨/PTFE 304+Graphite/PTFE	316缠绕+石墨/PTFE 316+Graphite/PTFE
7	螺母 Nut	A194-2H	A194-8	A194-8
8	螺柱 Stud	A193-B7	A193-B8	A193-B8
9	填料 Packing	柔性石墨Graphite / PTFE		
10	填料压板 Packing gland	A216-WCB	A351-CF8	A351-CF8
11	薄型螺母 Thin nut	304	304	304
12	手柄 Handle	304	304	304
13	垫圈 Washer	304	304	304
14	六角螺栓 Bolt	A193-B7	A193-B8	A193-B8
15	六角螺母 Nut	A194-2H	A194-8	A194-8
16	蝶形弹片 Disc spring	SS301	SS301	SS301
17	压环 Gland	304	304	316
18	O型圈 O-ring	Viton/FKM	Viton/FKM	Viton/FKM
19	止推垫圈 Thrust washer	PTFE/RPTFE	PTFE/RPTFE	PTFE/RPTFE
20	内六角圆柱头螺钉 Screw	A193-B7	304	304
21	六角螺母 Nut	A194-2H	304	304
22	手柄套 Handle cover	PVC	PVC	PVC

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: DIN 3357-2

标准级数 Rating: PN16/ PN25/ PN40

结构长度 Face to Face: DIN 3202

法兰标准 Flange: DIN 2543、DIN 2545

试验标准 Inspection: EN 12266-1



### 设计特点 Design features

1、对夹式 Wafer type

2、阀杆部位垫片+O型圈+填料多重密封

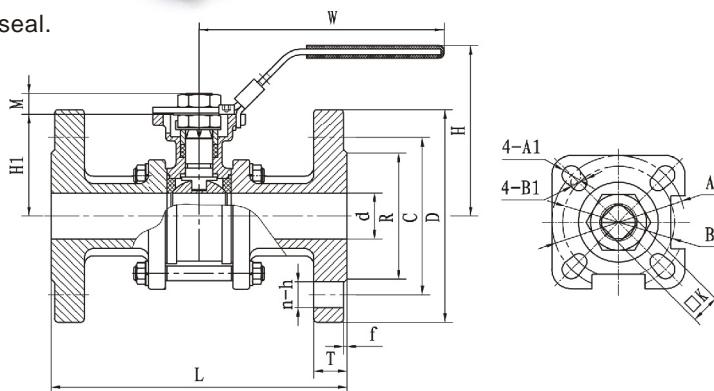
Stem area gasket +O ring + packing multiple seal.

3、防吹出阀杆设计 Blow-out proof stem

4、防静电结构 Anti-static structure.

5、ISO 5211标准执行器安装平台设计

ISO 5211 standard actuator mounting pad.



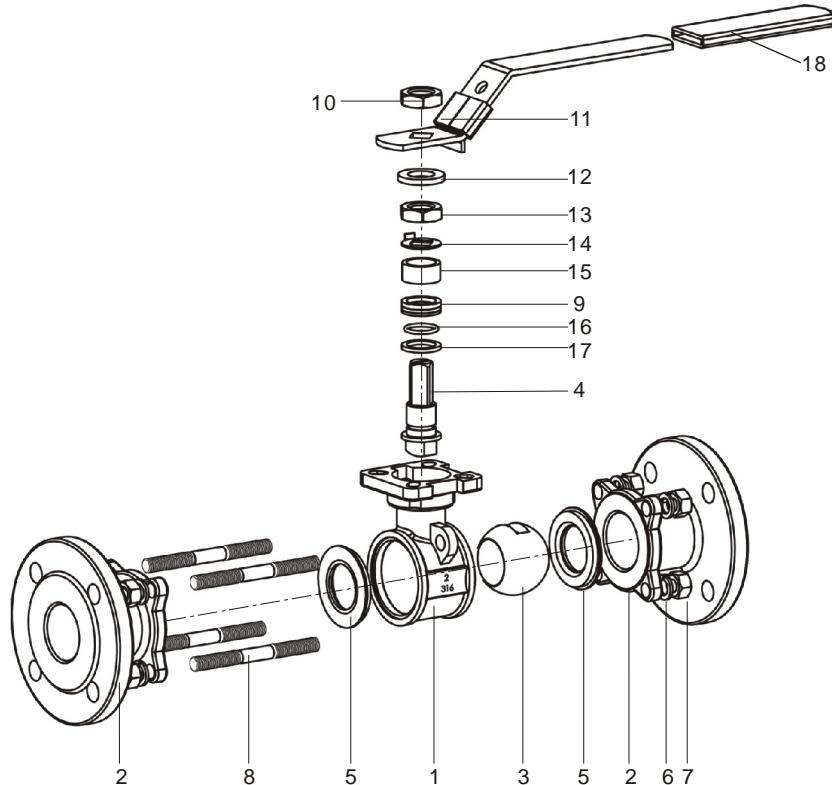
**PN16**

DN	外形尺寸 Dimension			法兰尺寸 Flange dimension							顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1
15	130	72	135	15	95	16	2	45	65	4-Φ14	F03/F04	50	7	36	6	9	9	42
20	150	78	135	20	105	18	2	58	75	4-Φ14	F03/F04	50	7	36	6	9	9	48
25	160	90	152	25	115	18	2	68	85	4-Φ14	F04/F05	50	7	42	6	11	11	55
32	180	95	152	32	140	18	2	78	100	4-Φ18	F04/F05	50	7	42	6	11	11	60
40	200	107	188	40	150	18	3	88	110	4-Φ18	F05/F07	70	9	50	7	14	15	70
50	230	122	188	50	165	20	3	102	125	4-Φ18	F05/F07	70	9	50	7	14	15	85
65	290	155	233	65	185	18	3	122	145	4-Φ18	F07/F10	102	11	70	9	17	20	109
80	310	164	233	80	200	20	3	138	160	8-Φ18	F07/F10	102	11	70	9	17	20	118
100	350	170	233	100	220	20	3	158	180	8-Φ18	F07/F10	102	11	70	9	22	20	115.5

**PN25/40**

DN	外形尺寸 Dimension			法兰尺寸 Flange dimension							顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1
15	130	72	135	15	95	16	2	45	65	4-Φ14	F03/F04	50	7	36	6	9	9	42
20	150	78	135	20	105	18	2	58	75	4-Φ14	F03/F04	50	7	36	6	9	9	48
25	160	90	152	25	115	18	2	68	85	4-Φ14	F04/F05	50	7	42	6	11	11	55
32	180	95	152	32	140	18	2	78	100	4-Φ18	F04/F05	50	7	42	6	11	11	60
40	200	107	188	40	150	18	3	88	110	4-Φ18	F05/F07	70	9	50	7	14	15	70
50	230	122	188	50	165	20	3	102	125	4-Φ18	F05/F07	70	9	50	7	14	15	85
65	290	155	233	65	185	22	3	122	145	8-Φ18	F07/F10	102	11	70	9	17	20	109
80	310	164	233	76	200	24	3	138	160	8-Φ18	F07/F10	102	11	70	9	17	20	118
100	350	170	233	94	235	24	3	162	190	8-Φ22	F07/F10	102	11	70	9	22	20	115.5

组装图 Part Drawing



序号 No.	零件名称 Parts Name	材质 Material		
1	阀体 Body	1.0619	1.4308	1.4408
2	侧体 Cap	1.0619	1.4308	1.4408
3	球体 Ball	A182-F304	A182-F304	A182-F316
4	阀杆 Stem	A276-410	A276-304	A276-316
5	阀座 Seat	PTFE / PTFE+15%玻纤GF / PTFE+15%碳纤Carbon / TFM1600等		
6	弹垫 Gasket	65Mn	304	304
7	螺母 Nut	A194-2H	A194-8	A194-8
8	双头螺柱 Stud	A193-B7	A193-B8	A193-B8
9	填料 Packing	PTFE / RPTFE		
10	薄型螺母 Nut	304	304	304
11	手柄 Handle	304	304	304
12	垫圈 Gasket	304	304	304
13	薄型螺母 Nut	304	304	304
14	防松垫圈 Check washer	304	304	304
15	压环 Gland	304	304	316
16	O型圈 O-ring	Viton/FKM	Viton/FKM	Viton/FKM
17	止推垫圈 Thrust washer	PTFE/RPTFE	PTFE/RPTFE	PTFE/RPTFE
18	手柄套 Handle cover	PVC	PVC	PVC

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: ASME B16.34

标准级数 Rating: 10K

结构长度 Face to Face: JIS B2002

法兰标准 Flange: JIS B2220

试验标准 Inspection: API 598



### 设计特点 Design features

1、阀杆部位垫片+O型圈+填料多重密封

Stem area gasket +O ring + packing multiple seal.

2、双蝶型弹片动负载压紧填料

Dynamic load pressure stem packing

3、防吹出阀杆设计

Blow-out proof stem

4、防火、防静电结构

Fire-proof and anti-static structure

5、阀座弹性密封设计

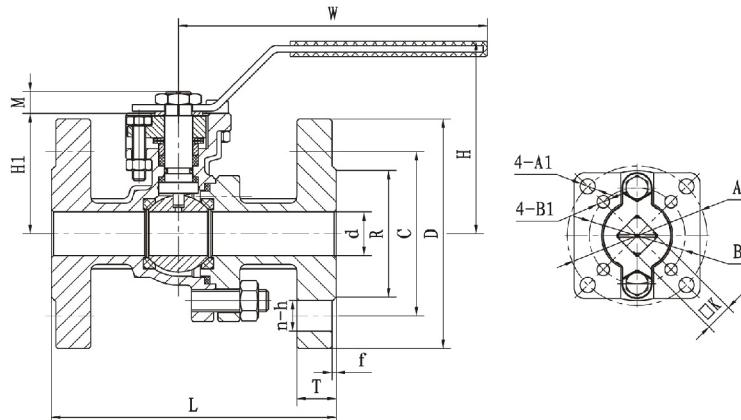
Seat resilient seal design.

6、ISO 5211标准执行器安装平台设计

ISO 5211 standard actuator mounting pad.

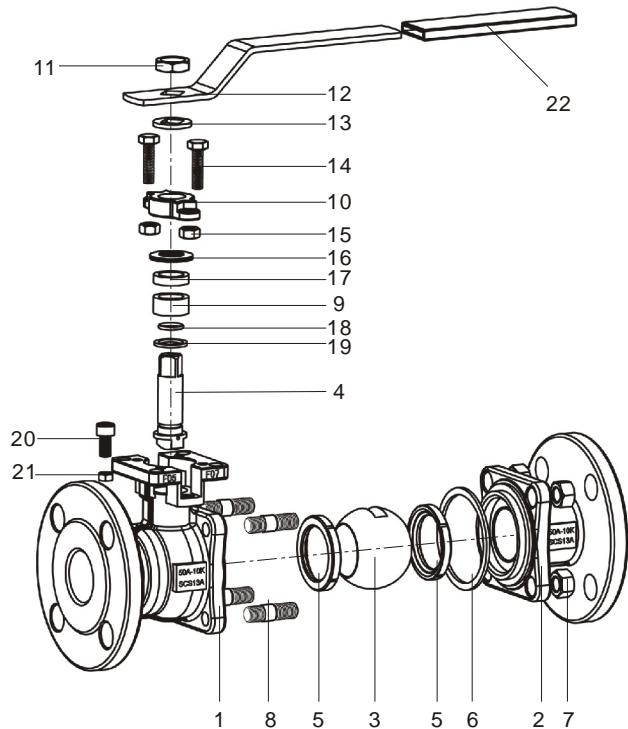
7、下沉式压盖设计

Design of the sunken gland.



DN	外形尺寸 Dimension			法兰尺寸 Flange dimension							顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1
15A	108	88	162	15	95	12	1	51	70	4-Φ15	F03/F05	50	7	36	6	9	9	50
20A	117	93	162	20	100	14	1	56	75	4-Φ15	F03/F05	50	7	36	6	9	9	55
25A	127	101	162	25	125	14	1	67	90	4-Φ19	F04/F05	50	7	42	6	11	11	63
32A	140	110	162	32	135	16	2	76	100	4-Φ19	F04/F05	50	7	42	6	11	11	72
40A	165	119	217	38	140	16	2	81	105	4-Φ19	F05/F07	70	10	50	7	14	14	79
50A	178	127	217	50	155	16	2	96	120	4-Φ19	F05/F07	70	10	50	7	14	14	87.5
65A	190	163	253	65	175	18	2	116	140	4-Φ19	F07/F10	102	12	70	10	17	18	115
80A	203	172	253	76	185	18	2	126	150	8-Φ19	F07/F10	102	12	70	10	17	18	124
100A	229	201	353	100	210	18	2	151	175	8-Φ19	F07/F10	102	12	70	10	17	18	148
125A	356	281	475	125	250	20	2	182	210	8-Φ23	F12	125	14	-	-	27	27	264
150A	394	286	656	150	280	22	2	212	240	8-Φ23	F10/F12	125	13	102	11	27	30	285

组装图 Part Drawing



序号 No.	零件名称 Parts Name	材质 Material		
1	阀体 Body	SCPH2	SCS13	SCS14
2	侧体 Cap	SCPH2	SCS13	SCS14
3	球体 Ball	A182-F304	A182-F304	A182-F316
4	阀杆 Stem	A276-410	A276-304	A276-316
5	阀座 Seat	PTFE / PTFE+15%玻纤GF / PTFE+15%碳纤Carbon / TFM1600等		
6	密封垫圈 Sealing gasket	304缠绕+石墨/PTFE 304+Graphite/PTFE	304缠绕+石墨/PTFE 304+Graphite/PTFE	316缠绕+石墨/PTFE 316+Graphite/PTFE
7	螺母 Nut	A194-2H	A194-8	A194-8
8	螺柱 Stud	A193-B7	A193-B8	A193-B8
9	填料 Packing	柔性石墨Graphite / PTFE		
10	填料压板 Packing gland	A216-WCB	A351-CF8	A351-CF8
11	薄型螺母 Thin nut	304	304	304
12	手柄 Handle	304	304	304
13	垫圈 Washer	304	304	304
14	六角螺栓 Bolt	A193-B7	A193-B8	A193-B8
15	六角螺母 Nut	A194-2H	A194-8	A194-8
16	蝶形弹片 Disc spring	SS301	SS301	SS301
17	压环 Gland	304	304	316
18	O型圈 O-ring	Viton/FKM	Viton/FKM	Viton/FKM
19	止推垫圈 Thrust washer	PTFE/RPTFE	PTFE/RPTFE	PTFE/RPTFE
20	内六角圆柱头螺钉 Screw	A193-B7	304	304
21	六角螺母 Nut	A194-2H	304	304
22	手柄套 Handle cover	PVC	PVC	PVC

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608/ API 6D

标准级数 Rating: CL150/ CL300

结构长度 Face to Face: ASME B16.10

法兰标准 Flange: ASME B16.5

试验标准 Inspection: API 598

### 设计特点 Design features

1、阀杆部位垫片+O型圈+填料多重密封

Stem area gasket +O ring + packing multiple seal.

2、双蝶型弹片动负载压紧填料

Dynamic load pressure stem packing.

3、防吹出阀杆设计 Blow-out proof stem

4、防火、防静电结构

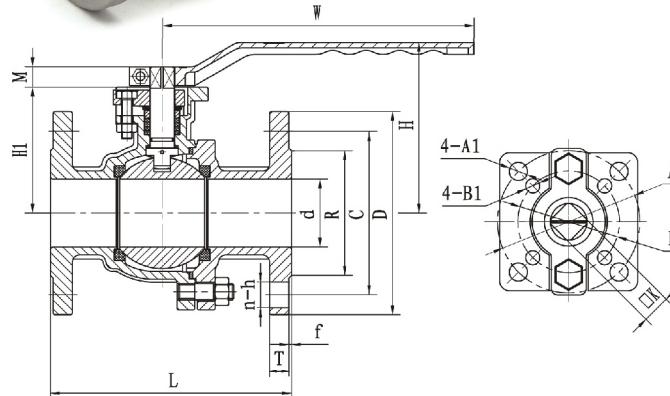
Fire-proof and anti-static structure.

5、阀座弹性密封设计 Seat resilient seal design.

6、ISO 5211标准执行器安装平台设计

ISO 5211 standard actuator mounting pad.

7、下沉式压盖设计 Design of the sunken gland.



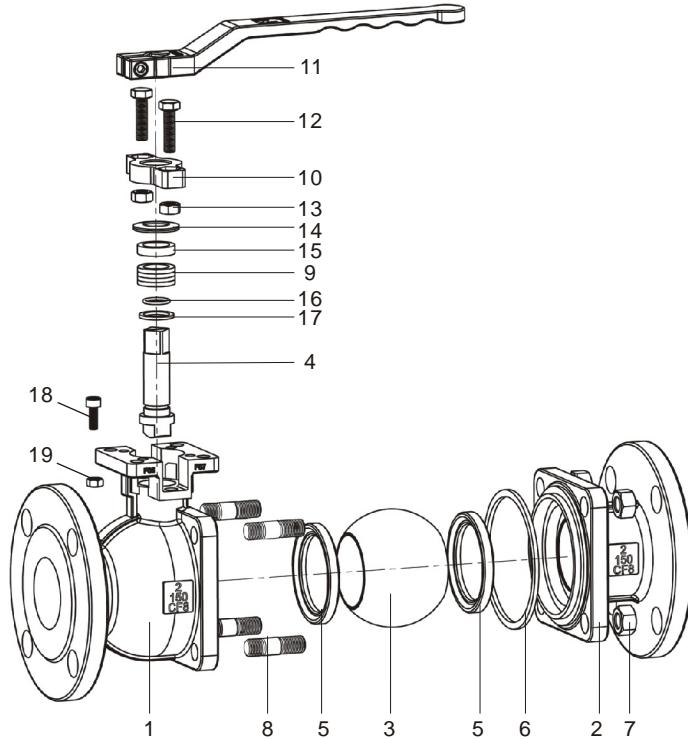
**CL150**

NPS	外形尺寸 Dimension			法兰尺寸 Flange dimension							顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1
1/2"	108	78	165	15	90	8	2	34.9	60.3	4-Φ16	F05	50	7	-	-	9	9	49
3/4"	117	83	165	20	100	9	2	42.9	69.9	4-Φ16	F05	50	7	-	-	9	9	54
1"	127	96	200	25	110	9.6	2	50.8	79.4	4-Φ16	F04/F05	50	7	42	6	11	11	64
1 1/2"	165	116	230	38	125	12.7	2	73	98.4	4-Φ16	F05/F07	70	9	50	7	14	15	83
2"	178	126	230	50	150	14.3	2	92.1	120.7	4-Φ19	F05/F07	70	9	50	7	14	15	93
2 1/2"	190	160	280	64	180	15.9	2	104.8	139.7	4-Φ19	F07/F10	102	12	70	9	17	17	120
3"	203	173	380	76	190	17.5	2	127	152.4	4-Φ19	F10	102	12	-	-	19	22	132
4"	229	197	380	100	230	22.3	2	157.2	190.5	8-Φ19	F10	102	11	-	-	22	23	156
5"	356	245.5	705	125	255	22.3	2	185.7	215.9	8-Φ22	F10/F12	125	13	102	11	27	30	186
6"	394	268	705	151	280	23.9	2	215.9	241.3	8-Φ22	F10/F12	125	13	102	11	27	30	208
8"	457	322	1000	202	345	27	2	269.9	298.5	8-Φ22	F12/F14	140	17	125	13	30	34	265

**CL300**

NPS	外形尺寸 Dimension			法兰尺寸 Flange dimension							顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1
1/2"	140	78	165	15	95	12.7	2	34.9	66.7	4-Φ16	F05	50	7	-	-	9	9	49
3/4"	152	83	165	20	115	14.3	2	42.9	82.6	4-Φ19	F05	50	7	-	-	9	9	54
1"	165	96	200	25	125	15.9	2	50.8	88.9	4-Φ19	F04/F05	50	7	42	6	11	11	64
1 1/2"	190	116	230	38	155	19.1	2	73	114.3	4-Φ22	F05/F07	70	9	50	7	14	15	83
2"	216	126	230	50	165	20.7	2	92.1	127	8-Φ19	F05/F07	70	9	50	7	14	15	93
2 1/2"	241	160	280	64	190	23.9	2	104.8	149.2	8-Φ22	F07/F10	102	12	70	9	17	17	120
3"	282	173	380	76	210	27	2	127	168.3	8-Φ22	F10	102	12	-	-	19	22	132
4"	305	197	380	100	255	30.2	2	157.2	200	8-Φ22	F10	102	11	-	-	22	23	156
5"	381	245.5	705	125	280	33.4	2	185.7	235	8-Φ22	F10/F12	125	13	102	11	27	30	186
6"	403	315	1000	151	320	35	2	215.9	270	12-Φ22	F12/F14	140	17	125	13	30	30	208

组装图 Part Drawing



序号 No.	零件名称 Parts Name	材质 Material		
1	阀体 Body	A216-WCB	A351-CF8	A351-CF8M
2	侧体 Cap	A216-WCB	A351-CF8	A351-CF8M
3	球体 Ball	A182-F304	A182-F304	A182-F316
4	阀杆 Stem	A276-410	A276-304	A276-316
5	阀座 Seat	PTFE / PTFE+15%玻纤GF / PTFE+15%碳纤Carbon / TFM1600等		
6	密封垫圈 Sealing gasket	304缠绕+石墨/PTFE 304+Graphite/PTFE	304缠绕+石墨/PTFE 304+Graphite/PTFE	316缠绕+石墨/PTFE 316+Graphite/PTFE
7	螺母 Nut	A194-2H	A194-8	A194-8
8	螺柱 Stud	A193-B7	A193-B8	A193-B8
9	填料 Packing	柔性石墨Graphite / PTFE		
10	填料压板 Packing gland	A216-WCB	A351-CF8	A351-CF8
11	手柄 Handle	A351-CF8	A351-CF8	A351-CF8
12	六角螺栓 Bolt	A193-B7	A193-B8	A193-B8
13	六角螺母 Nut	A194-2H	A194-8	A194-8
14	碟形弹片 Disc spring	SS301	SS301	SS301
15	压环 Gland	304	304	316
16	O型圈 O-ring	Viton/FKM	Viton/FKM	Viton/FKM
17	止推垫圈 Thrust washer	PTFE/RPTFE	PTFE/RPTFE	PTFE/RPTFE
18	内六角圆柱头螺钉 Screw	A193-B7	304	304
19	六角螺母 Nut	A194-2H	304	304

### 安装尺寸 Dimensions

标准规范 Standard specification

#### 国标系列 GB PN16

设计标准 Design: GB/T 12224

结构长度 Face to Face: 工厂标准 MFR STD

法兰标准 Flange: GB/T 9113

试验标准 Inspection: GB/T 26480

#### 德标系列 DIN PN16

设计标准 Design: DIN 3357-2

结构长度 Face to Face: 工厂标准 MFR STD

法兰标准 Flange: DIN 2543

试验标准 Inspection: EN 12266-1

#### 美标系列 ANSI CL150

设计标准 Design: ASME B16.34

结构长度 Face to Face: 工厂标准 MFR STD

法兰标准 Flange: ASME B16.5

试验标准 Inspection: API 598

### 设计特点 Design features

1、阀杆部位垫片+O型圈+填料多重密封

Stem area gasket +O ring + packing multiple seal.

2、双蝶型弹片动负载压紧填料

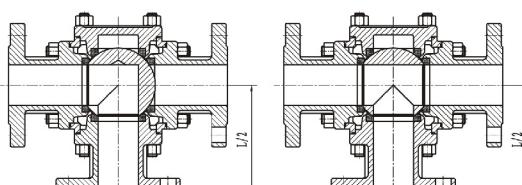
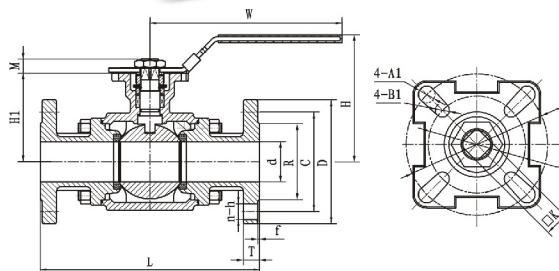
Dynamic load pressure stem packing

3、防吹出阀杆设计 Blow-out proof stem

4、防静电结构 Anti-static structure.

6、ISO 5211标准执行器安装平台设计

ISO 5211 standard actuator mounting pad.



(L-type) (T-type)

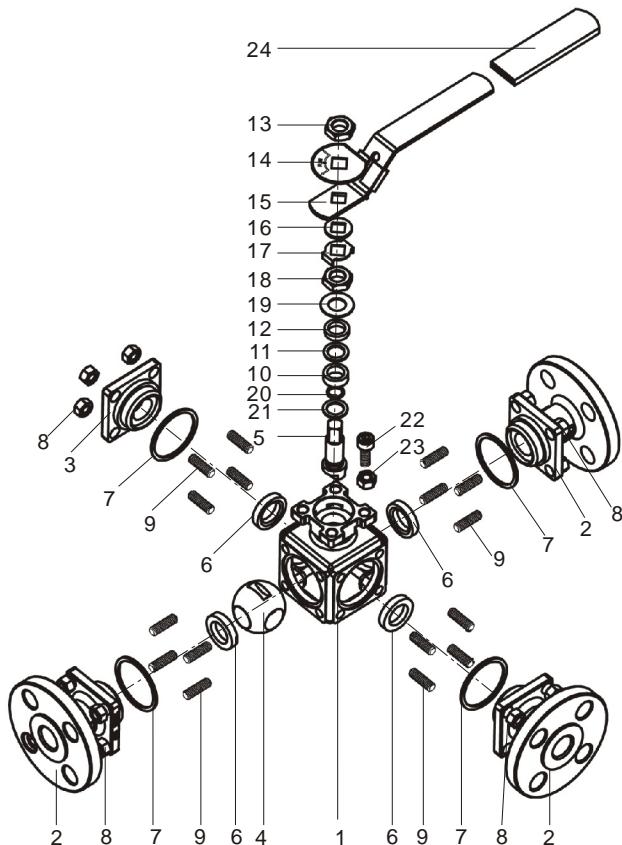
### GB/DIN PN16

DN	外形尺寸 Dimension			法兰尺寸 Flange dimension							顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1
15	175	88	162	15	95	16	2	45	65	4- $\phi$ 14	F05	50	8	-	-	11	11	50.5
20	190	97	162	20	105	18	2	58	75	4- $\phi$ 14	F05	50	8	-	-	11	11	59
25	210	117	187	25	115	18	2	68	85	4- $\phi$ 14	F05/F07	70	10	50	8	14	14	78
32	230	120	187	32	140	18	2	78	100	4- $\phi$ 18	F05/F07	70	10	50	8	14	14	83
40	250	147	233	38	150	18	3	88	110	4- $\phi$ 18	F07/F10	102	12	70	10	17	17	100
50	265	154	233	49	165	18	3	102	125	4- $\phi$ 18	F07/F10	102	12	70	10	17	17	107.5
65	280	171	318	63	185	18	3	122	145	8- $\phi$ 18	F07/F10	102	12	70	10	22	22	120
80	320	183	318	76	200	20	3	138	160	8- $\phi$ 18	F07/F10	102	12	70	10	22	22	132
100	370	242	460	100	220	20	3	158	180	8- $\phi$ 18	F10/F12	125	14	102	12	27	27	170

### ANSI CL150

NPS	外形尺寸 Dimension			法兰尺寸 Flange dimension							顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1
1/2"	155	88	162	15	90	10	2	34.9	60.3	4- $\phi$ 16	F05	50	8	-	-	11	11	50.5
3/4"	170	97	162	20	100	12	2	42.9	69.9	4- $\phi$ 16	F05	50	8	-	-	11	11	59
1"	190	117	187	25	110	12.7	2	50.8	79.4	4- $\phi$ 16	F05/F07	70	10	50	8	14	14	78
1 1/4"	210	120	187	32	115	14.5	2	63.5	88.9	4- $\phi$ 16	F05/F07	70	10	50	8	14	14	83
1 1/2"	230	147	233	38	125	16	2	73	98.4	4- $\phi$ 16	F07/F10	102	12	70	10	17	17	100
2"	265	154	233	49	150	17.5	2	92.1	120.7	4- $\phi$ 19	F07/F10	102	12	70	10	17	17	107.5
2 1/2"	280	171	318	63	180	21	2	104.8	139.7	4- $\phi$ 19	F07/F10	102	12	70	10	22	22	120
3"	320	183	318	76	190	22.5	2	127	152.4	4- $\phi$ 19	F07/F10	102	12	70	10	22	22	132
4"	370	242	459	100	230	22.5	2	157.2	190.5	8- $\phi$ 19	F10/F12	125	14	102	12	27	27	170

组装图 Part Drawing



序号 No.	零件名称 Parts Name	材质 Material		
1	阀体 Body	A216-WCB/1.0619	A351-CF8/1.4308	A351-CF8M/1.4408
2	侧体 Cap	A216-WCB/1.0619	A351-CF8/1.4308	A351-CF8M/1.4408
3	盲板 Blind plate	A216-WCB/1.0619	A351-CF8/1.4308	A351-CF8M/1.4408
4	球体 Ball	A182-F304	A182-F304	A182-F316
5	阀杆 Stem	A276-410	A276-304	A276-316
6	阀座 Seat	PTFE / PTFE+15%玻纤GF / PTFE+15%碳纤Carbon / TFM1600等		
7	密封垫圈 Sealing gasket		PTFE / RPTFE	
8	螺母 Nut	A194-2H	A194-8	A194-8
9	全螺纹螺柱 Stud	A193-B7	A193-B8	A193-B8
10	填料 Packing		PTFE / RPTFE	
11	耐磨垫圈 Gasket	304+MoS2+PTFE	304+MoS2+PTFE	304+MoS2+PTFE
12	压环 Gland	304	304	316
13	薄型螺母 Nut	304	304	304
14	指示牌 Indicator	304	304	304
15	带锁手柄 Handle	304	304	304
16	垫圈 Gasket	304	304	304
17	防松垫片 Lock washer	304	304	304
18	薄型螺母 Nut	304	304	304
19	蝶形弹片 Disc spring	SS301	SS301	SS301
20	O型圈 O-ring	Viton/FKM	Viton/FKM	Viton/FKM
21	止推垫圈 Thrust washer	PTFE/RPTFE	PTFE/RPTFE	PTFE/RPTFE
22	内六角圆柱头螺钉 Screw	A193-B7	304	304
23	六角螺母 Nut	A194-2H	304	304
24	手柄套 Handle cover	PVC	PVC	PVC

### 安装尺寸 Dimensions

标准规范 Standard specification

#### 国标系列 GB PN16

设计标准 Design: GB/T 12224

结构长度 Face to Face: 工厂标准 MFR STD

法兰标准 Flange: GB/T 9113

试验标准 Inspection: GB/T 26480

#### 德标系列 DIN PN16

设计标准 Design: DIN 3357-2

结构长度 Face to Face: 工厂标准 MFR STD

法兰标准 Flange: DIN 2543

试验标准 Inspection: EN 12266-1

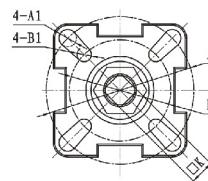
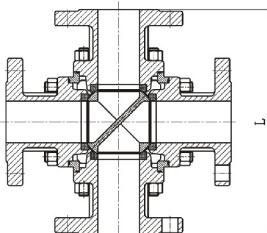
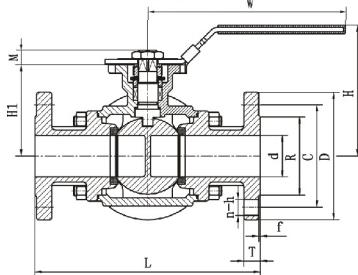
#### 美标系列 ANSI CL150

设计标准 Design: ASME B16.34

结构长度 Face to Face: 工厂标准 MFR STD

法兰标准 Flange: ASME B16.5

试验标准 Inspection: API 598



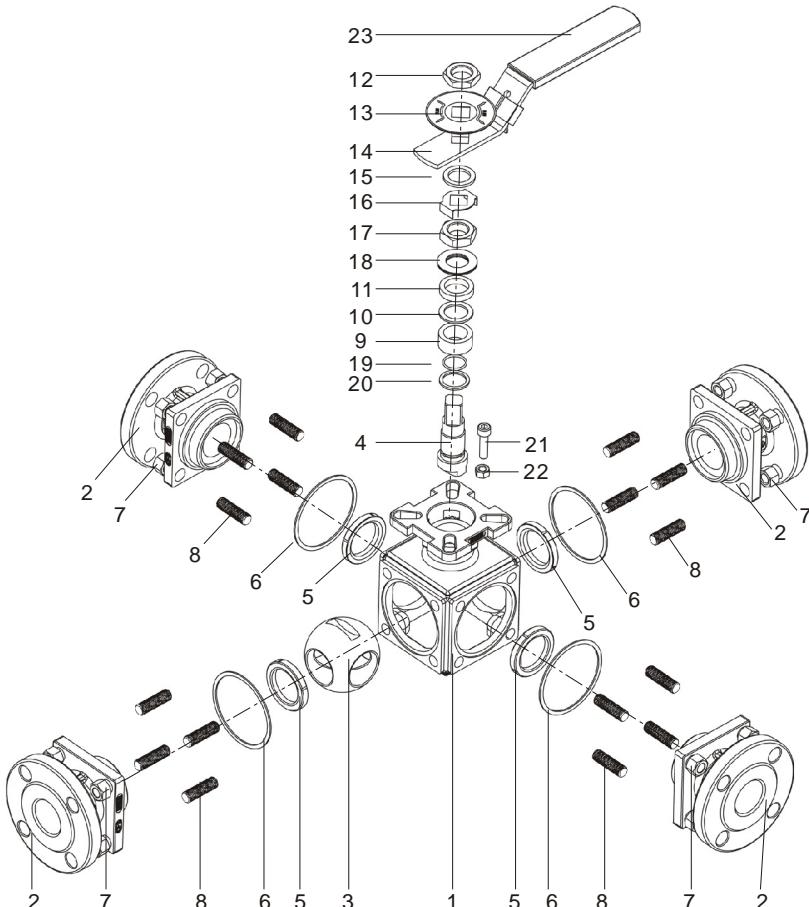
### GB/DIN PN16

DN	外形尺寸 Dimension			法兰尺寸 Flange dimension							顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1
15	175	88	162	15	95	16	2	45	65	4- $\phi$ 14	F05	50	8	-	-	11	11	50.5
20	190	97	162	20	105	18	2	58	75	4- $\phi$ 14	F05	50	8	-	-	11	11	59
25	210	117	187	25	115	18	2	68	85	4- $\phi$ 14	F05/F07	70	10	50	8	14	14	78
32	230	120	187	32	140	18	2	78	100	4- $\phi$ 18	F05/F07	70	10	50	8	14	14	83
40	250	147	233	38	150	18	3	88	110	4- $\phi$ 18	F07/F10	102	12	70	10	17	17	100
50	265	154	233	49	165	18	3	102	125	4- $\phi$ 18	F07/F10	102	12	70	10	17	17	107.5
65	280	171	318	63	185	18	3	122	145	8- $\phi$ 18	F07/F10	102	12	70	10	22	22	120
80	320	183	318	76	200	20	3	138	160	8- $\phi$ 18	F07/F10	102	12	70	10	22	22	132
100	370	242	460	100	220	20	3	158	180	8- $\phi$ 18	F10/F12	125	14	102	12	27	27	170

### ANSI CL150

NPS	外形尺寸 Dimension			法兰尺寸 Flange dimension							顶部连接尺寸 Top connection size							
	L	H	W	d	D	T	f	R	C	n-h	ISO 5211	A	A1	B	B1	K	M	H1
1/2"	155	88	162	15	90	10	2	34.9	60.3	4- $\phi$ 16	F05	50	8	-	-	11	11	50.5
3/4"	170	97	162	20	100	12	2	42.9	69.9	4- $\phi$ 16	F05	50	8	-	-	11	11	59
1"	190	117	187	25	110	12.7	2	50.8	79.4	4- $\phi$ 16	F05/F07	70	10	50	8	14	14	78
1 1/4"	210	120	187	32	115	14.5	2	63.5	88.9	4- $\phi$ 16	F05/F07	70	10	50	8	14	14	83
1 1/2"	230	147	233	38	125	16	2	73	98.4	4- $\phi$ 16	F07/F10	102	12	70	10	17	17	100
2"	265	154	233	49	150	17.5	2	92.1	120.7	4- $\phi$ 19	F07/F10	102	12	70	10	17	17	107.5
2 1/2"	280	171	318	63	180	21	2	104.8	139.7	4- $\phi$ 19	F07/F10	102	12	70	10	22	22	120
3"	320	183	318	76	190	22.5	2	127	152.4	4- $\phi$ 19	F07/F10	102	12	70	10	22	22	132
4"	370	242	459	100	230	22.5	2	157.2	190.5	8- $\phi$ 19	F10/F12	125	14	102	12	27	27	170

组装图 Part Drawing



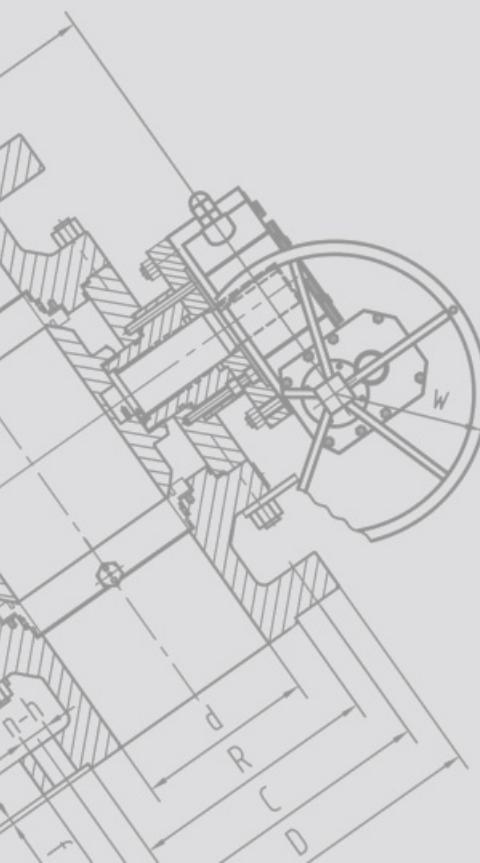
序号 No.	零件名称 Parts Name	材质 Material		
1	阀体 Body	A216-WCB/1.0619	A351-CF8/1.4308	A351-CF8M/1.4408
2	侧体 Cap	A216-WCB/1.0619	A351-CF8/1.4308	A351-CF8M/1.4408
3	球体 Ball	A182-F304	A182-F304	A182-F316
4	阀杆 Stem	A276-410	A276-304	A276-316
5	阀座 Seat	PTFE / PTFE+15%玻纤GF / PTFE+15%碳纤Carbon / TFM1600等		
6	密封垫圈 Sealing gasket	PTFE / RPTFE		
7	螺母 Nut	A194-2H	A194-8	A194-8
8	全螺纹螺柱 Stud	A193-B7	A193-B8	A193-B8
9	填料 Packing		PTFE / RPTFE	
10	耐磨垫圈 Wear washer	304+MoS2+PTFE	304+MoS2+PTFE	304+MoS2+PTFE
11	压环 Gland	304	304	316
12	薄型螺母 Nut	304	304	304
13	指示牌 Indicator	304	304	304
14	带锁手柄 Handle	304	304	304
15	垫圈 Gasket	304	304	304
16	防松垫片 Lock washer	304	304	304
17	薄型螺母 Nut	304	304	304
18	碟形弹片 Disc spring	SS301	SS301	SS301
19	O型圈 O-ring	Viton/FKM	Viton/FKM	Viton/FKM
20	止推垫圈 Thrust washer	PTFE/RPTFE	PTFE/RPTFE	PTFE/RPTFE
21	内六角圆柱头螺钉 Screw	A193-B7	304	304
22	六角螺母 Nut	A194-2H	304	304
23	手柄套 Handle cover	PVC	PVC	PVC

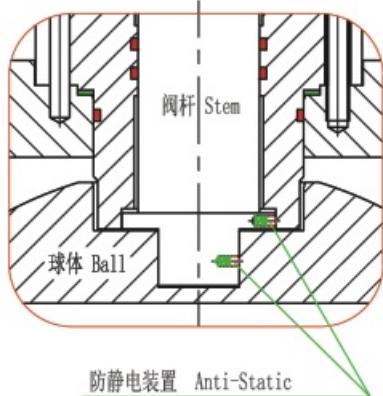


光德流控  
GRANDE-TEK

# 固定球法兰球阀

## TRUNNION FLANGED BALL VALVE





### 阀杆防吹出设计 Blow-out proof stem

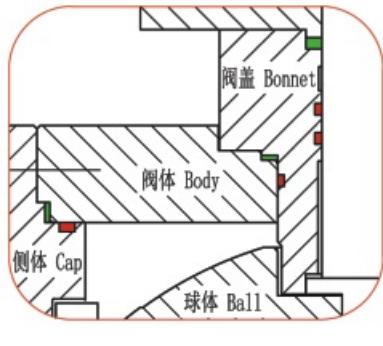
阀杆下端为整体T型结构，阀杆凸台被压盖法兰挡住，避免阀杆在内腔压力作用下吹出。

The lower end of the stem is the integral t-type structure, and the stem convex platform is blocked by the gland flange avoiding stem blowing out under pressure of body.

### 防静电装置 Anti-Static

防静电装置为我公司产品标准设计，阀杆下端在与压盖、球体接触部位设有弹簧加钢球装置，使球体与阀杆和阀体形成导电通道，将球体与阀座密封圈摩擦产生的静电导出体外，避免电荷集聚引燃危险介质产生爆炸。

Anti-static device is our company's product standard design, the bottom of stem with gland, ball contact area, is equipped with spring and steel ball device, make the ball, stem and body to form conductive path to push the static electricity out, fricative by ball the seat sealing, avoid charge accumulation ignite dangerous medium produce an explosion.



### 防火安全结构设计 Fire-safe design

#### 防止介质外漏 Prevent leakage of media.

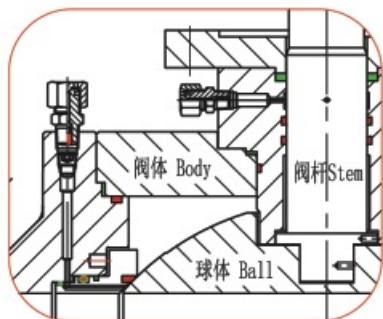
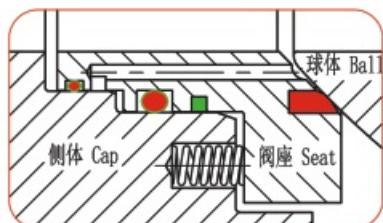
阀体间、阀体与阀盖间密封为O形圈和垫片密封，当火灾发生时，O形圈烧毁失效，而石墨缠绕垫片保持密封；阀杆部位密封为O形圈和石墨填料密封，当火灾发生时，O形圈烧毁失效，而石墨填料保持密封，保证壳体不会外漏。

Between the valve body, between the body and valve cover, the sealing is o-ring and gasket seals, when the fire occurs, the o-ring burns out, and the graphite is kept sealed. The sealing of valve stem is o-ring and graphit packing, when the fire occurs, the o-ring burns out, the graphite packing is kept sealed, to ensure the shell not leaking.

#### 防止介质内漏 Prevent leakage of media.

发生火灾时，非金属密封件全部被烧毁，阀座支撑圈与球体接触，实现阀座与球体金属对金属密封，阀座背部与阀体密封为O形圈和填料密封，当火灾发生时，O形圈烧毁失效，而编织石墨仍保持密封，有效保证介质不会大量内漏。

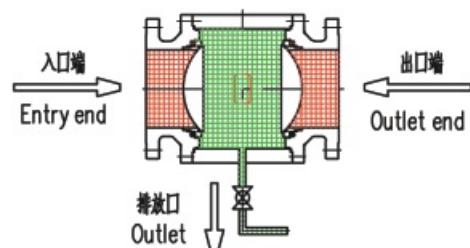
In the case of fire, all non-metallic seals were burned, the seat support ring is in contact with the ball, reach seat and ball, metal to metal seal. The back of seat and body's sealing is o-ring and packing seal, in the case of fire, o-ring is burned out, the graphite is remained, sealed, effectively guarantee the medium will not have a lot of leakage.



### 紧急注脂密封 Emergency grease seal.

6" (DN150) 及以上固定球阀，阀杆和阀座部位均装有注射密封脂装置，当两部位密封材料意外失效后，通过注射装置注入密封脂，可阻止阀杆和阀座部位的泄漏。

6"(DN150) and the above trunnion mounted ball valve, the valve stem and seat is all equipped with injection sealing grease device, when the two part of sealing materials lose efficacy, using injection device inject sealing grease, to prevent leakage of stem and seat.



### 双阻断及排污功能(DBB) Double block and bleed function

固定球阀的两个阀座能独立切断进口端和出口端流体，实现双阻断功能。当球体处于关闭位置时，即使阀门两端同时受压，阀门中腔与两端通道是相互被阻断的，中腔的剩余介质可通过排放阀排出。

The two seats of the trunnion mounting ball valve can cut off the inlet and outlet fluids independently and realize double blocking function. When the ball is in a closed position, even if both sides of the valve are pressed in the meantime, the cavity and the two ends of the valve are blocked, and the residual medium in the cavity can be discharged through the discharge valve.

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: GB/T 19672

标准级数 Rating: PN16 ~PN160

结构长度 Face to Face: GB/T 19672

法兰标准 Flange: GB/T 9113

试验标准 Inspection: GB/T 19672



### 设计特点 Design features

1、3PC锻钢、分体式、固定球

3PC Forged steel, split body, trunnion ball.

2、防吹出阀杆设计

Blow-out proof stem

3、防火、防静电结构

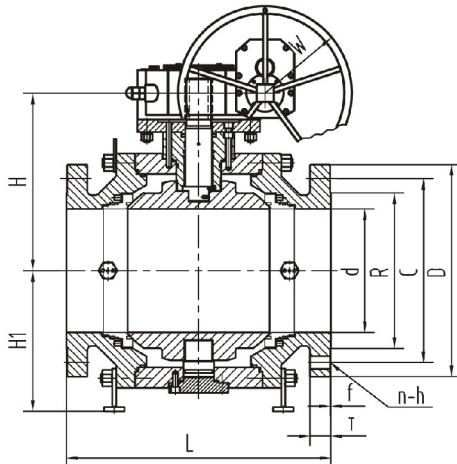
Fire-proof and anti-static structure.

4、紧急注脂密封设计

Emergency grease seal design.

5、双阻断及排污功能 ( DBB )

Double block and bleed function.



PN16

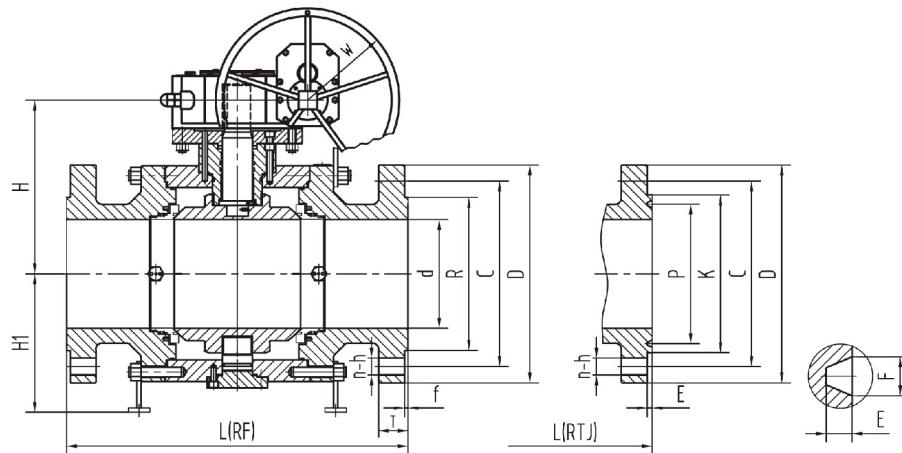
DN	外形尺寸 Dimension				法兰尺寸 Flange dimension						
	L	H	H1	W	d	D	T	f	R	C	n-h
50	178	200	121	80	280	165	18	3	102	125	4-Φ18
80	203	300	195	88	280	200	20	3	138	160	8-Φ18
100	229	315	225	145	280	220	20	3	158	180	8-Φ18
150	394	335	290	210	350	285	22	3	212	240	8-Φ22
200	457	405	328	280	350	840	24	3	268	295	12-Φ22
250	533	427	390	320	400	405	25	3	320	355	12-Φ26
300	610	465	436	355	400	460	28	4	378	410	12-Φ26
350	686	506	460	400	400	520	30	4	438	470	16-Φ26
400	762	622	515	470	400	580	32	4	490	525	16-Φ30
450	864	666	550	500	400	640	40	4	550	585	20-Φ30
500	914	730	638	540	400	715	44	4	610	650	20-Φ33
600	1067	895	710	630	400	840	54	5	725	770	20-Φ36

**PN25**

DN	外形尺寸 Dimension				法兰尺寸 Flange dimension						
	L	H	H1	W	d	D	T	f	R	C	n-h
50	216	200	121	80	280	165	20	3	102	125	4- $\phi$ 18
80	283	300	195	88	280	200	24	3	138	160	8- $\phi$ 18
100	305	315	225	145	280	235	24	3	162	190	8- $\phi$ 22
150	403	335	290	210	350	300	28	3	218	250	8- $\phi$ 26
200	502	405	328	280	350	360	30	3	278	310	12- $\phi$ 26
250	568	427	390	320	400	425	32	3	335	370	12- $\phi$ 30
300	648	465	436	355	400	485	34	4	395	430	16- $\phi$ 30
350	762	506	460	400	400	555	38	4	450	490	16- $\phi$ 33
400	838	622	515	470	400	620	40	4	505	550	16- $\phi$ 36
450	914	666	550	500	400	670	46	4	555	600	20- $\phi$ 36
500	991	730	638	540	400	730	48	4	615	660	20- $\phi$ 36
600	1143	895	710	630	400	845	58	5	720	770	20- $\phi$ 39

**PN40**

DN	外形尺寸 Dimension				法兰尺寸 Flange dimension						
	L	H	H1	W	d	D	T	f	R	C	n-h
50	216	121	80	280	49	165	20	3	102	125	4- $\phi$ 18
80	283	195	88	280	74	200	24	3	138	160	8- $\phi$ 18
100	305	225	145	280	100	235	24	3	162	190	8- $\phi$ 22
150	403	290	210	350	150	300	28	3	218	250	8- $\phi$ 26
200	502	328	280	350	201	375	34	3	285	320	12- $\phi$ 30
250	568	396	320	400	252	450	38	3	345	385	12- $\phi$ 33
300	648	445	355	400	303	515	42	4	410	450	16- $\phi$ 33
350	762	465	400	400	334	580	46	4	465	510	16- $\phi$ 36
400	838	520	470	400	385	660	50	4	535	585	16- $\phi$ 39
450	914	560	500	400	436	685	57	4	560	610	20- $\phi$ 39
500	991	645	540	400	487	755	57	4	615	670	20- $\phi$ 42
600	1143	720	630	520	538	890	72	5	735	795	20- $\phi$ 48



**PN63**

DN	外形尺寸 Dimension				法兰尺寸 Flange dimension							
	L	H	H1	W	d	D	T	f	R	C	n-h	
50	292	121	80	280	49	180	26	3	102	135	4- $\phi$ 22	
80	432	195	88	280	74	215	28	3	138	170	8- $\phi$ 22	
100	406	232	145	280	100	250	30	3	162	200	8- $\phi$ 26	
150	495	296	210	350	150	345	36	3	218	280	8- $\phi$ 33	
200	597	338	280	350	201	415	42	3	285	345	12- $\phi$ 36	
250	673	405	320	400	252	470	46	3	345	400	12- $\phi$ 36	
300	762	460	355	400	303	530	52	4	410	460	16- $\phi$ 36	
350	826	490	400	400	334	600	56	4	465	525	16- $\phi$ 39	
400	902	540	470	400	385	670	60	4	535	585	16- $\phi$ 42	

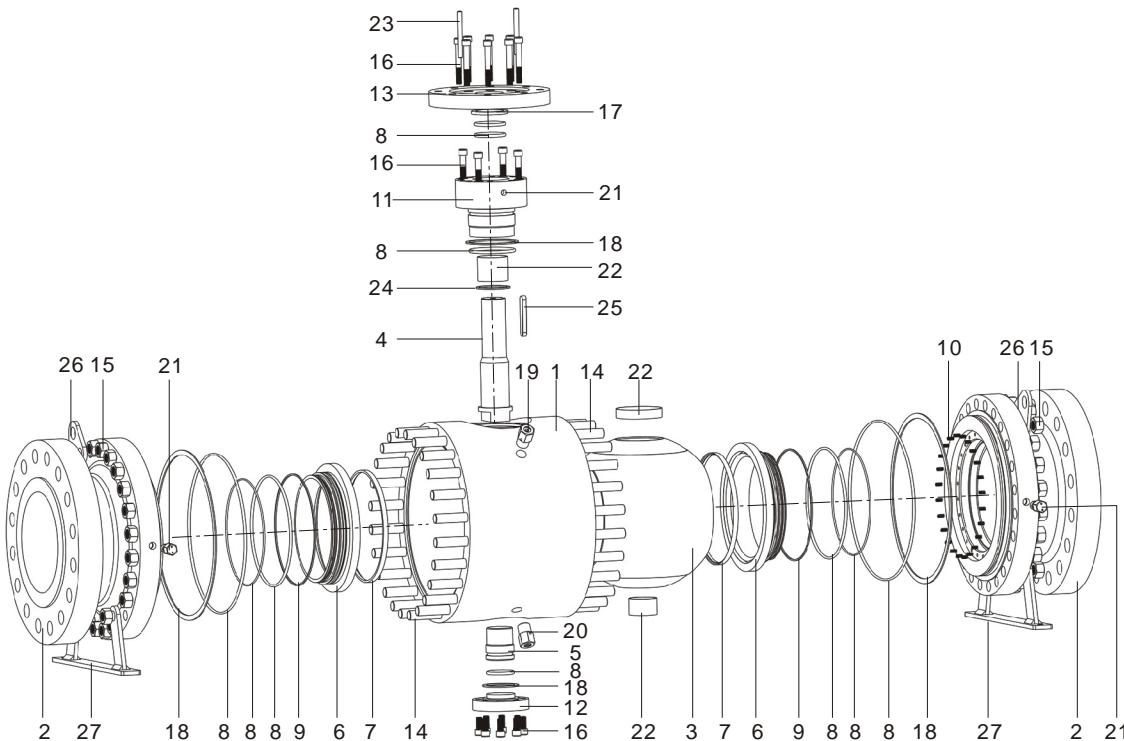
**PN100**

DN	外形尺寸 Dimension					法兰尺寸 Flange dimension										
	L(RF)	L(RTJ)	H	H1	W	d	D	T	f	R	C	n-h	K	P	E	F
50	282	295	212	96	300	49	195	30	3	102	145	4- $\phi$ 26	116	85	8	12
80	356	359	212	118	300	74	230	36	3	138	180	8- $\phi$ 26	150	115	8	12
100	432	435	225	142	400	100	265	40	3	162	210	8- $\phi$ 30	176	145	8	12
150	559	562	295	220	400	150	355	44	3	218	290	12- $\phi$ 33	250	205	8	12
200	660	664	335	280	500	201	430	52	3	285	360	12- $\phi$ 36	312	265	8	12
250	787	791	400	320	500	252	505	60	3	345	430	12- $\phi$ 39	376	320	8	12
300	838	841	460	365	420	303	585	68	4	410	500	16- $\phi$ 42	448	375	8	12
350	889	892	480	400	420	334	655	74	4	465	560	16- $\phi$ 48	505	420	11	17
400	991	-	520	460	400	385	715	75	4	535	620	16- $\phi$ 48	-	-	-	-

**PN160**

DN	外形尺寸 Dimension					法兰尺寸 Flange dimension										
	L(RF)	L(RTJ)	H	H1	W	d	D	T	f	R	C	n-h	K	P	E	F
50	368	368	212	105	280	49	195	30	3	102	145	4- $\phi$ 26	118	95	8	12
80	381	381	220	136	300	74	230	36	3	138	180	8- $\phi$ 26	152	130	8	12
100	457	457	262	165	350	100	265	40	3	162	210	8- $\phi$ 30	178	160	8	12
150	610	610	310	220	350	150	355	50	3	218	290	12- $\phi$ 33	255	205	10	14
200	737	737	346	280	350	201	430	60	3	285	360	12- $\phi$ 36	322	275	11	17
250	838	838	415	320	500	252	515	68	3	345	430	12- $\phi$ 42	388	330	11	17
300	965	965	460	365	500	303	585	78	4	410	500	16- $\phi$ 42	456	380	14	23

组装图 Part Drawing



序号 No.	零件名称 Parts Name	材质 Material			
1/2	阀体/侧体 Body/ Cap	A105	LF2	A182 F304	A182 F316
3	球体 Ball	A105+ENP	LF2+ENP	A182-F304	A182-F316
4/5	阀杆/支承轴 Stem/ Trunnion	42CrMo+ENP	42CrMo+ENP	A276 304	A276 316
6	阀座环 Seat ring	A105+ENP	LF2+ENP	A182 F304	A182 F316
7	密封圈 Sealing ring	PTFE / RPTFE / NYLON			
8	O型圈 O-ring	Viton / FKM / Viton AED			
9	阀座填料 Seat packing	编织石墨Braided graphite			
10	圆柱弹簧 Spring	Inconel X-750			
11/12	阀盖/底盖 Bonnet/ Bottom	A105	LF2	A182 F304	A182 F316
13	连接盘 The top flange	Q235	Q345	A182 F304	A182 F316
14/15	螺柱/螺母 Stud/ Nut	35CrMo /45	42CrMo/30CrMo	304/304	304/304
16	螺钉 Screw	35CrMo	42CrMo	A2-70	A2-70
17	阀杆填料 Packing	柔性石墨Graphite			
18	密封垫圈 Sealing gasket	304+Graphite	304+Graphite	304+Graphite	316+Graphite
19/20	泄压阀/排污阀 Release valve/ Drain valve	304	304	304	316
21	注脂阀 Grease fitting	304	304	304	316
22	轴套 Bearing	304+PTFE	304+PTFE	304+PTFE	316+PTFE
23	定位销 Positioning pin	304	304	304	316
24	止推垫片 Thrust washers	PTFE	PTFE	PTFE	PTFE
25	平键 Key	45	45	45	45
26/27	吊耳/支撑座 Lug/ Brackets	Q235	Q235	Q235	Q235

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 6D

标准级数 Rating: CL150~CL900

结构长度 Face to Face: API 6D

法兰标准 Flange: ASME B16.5

试验标准 Inspection: API 6D

### 设计特点 Design features

1、3PC锻钢、分体式、固定球

3PC Forged steel, split body, trunnion ball.

2、防吹出阀杆设计

Blow-out proof stem

3、防火、防静电结构

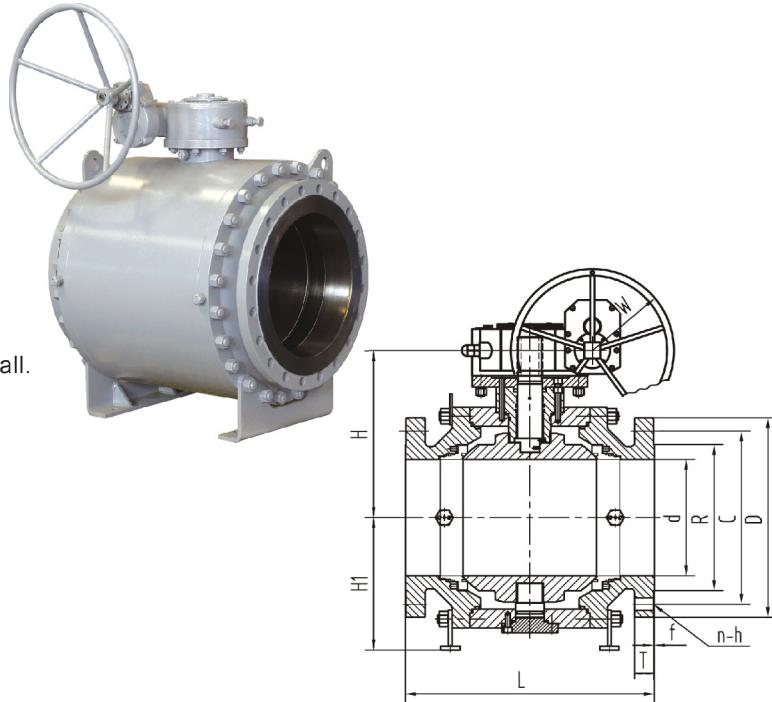
Fire-proof and anti-static structure.

4、紧急注脂密封设计

Emergency grease seal design.

5、双阻断及排污功能 (DBB)

Double block and bleed function.

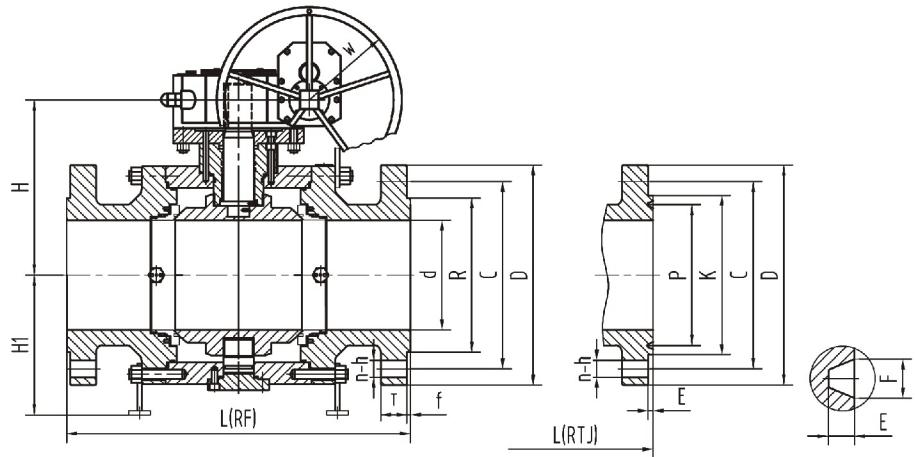


**CL150**

NPS	外形尺寸 Dimension				法兰尺寸 Flange dimension						
	L	H	H1	W	d	D	T	f	R	C	n-h
2"	178	121	80	280	49	150	17.5	2	92	120.5	4- $\phi$ 18
3"	203	195	88	280	74	190	22.3	2	127	152.5	4- $\phi$ 18
4"	229	225	145	280	100	230	22.3	2	157.5	190.5	8- $\phi$ 18
6"	394	290	210	350	150	280	23.9	2	216	241.5	8- $\phi$ 22
8"	457	328	280	350	201	345	27	2	270	298.5	8- $\phi$ 22
10"	533	390	320	400	252	405	28.6	2	324	362	12- $\phi$ 26
12"	610	436	355	400	303	485	30.2	2	381	432	12- $\phi$ 26
14"	686	460	400	400	334	535	33.4	2	413	476	12- $\phi$ 29.5
16"	762	515	470	400	385	600	35	2	470	540	16- $\phi$ 29.5
18"	864	550	500	400	436	635	38.1	2	533.5	578	16- $\phi$ 32.5
20"	914	638	540	400	487	700	41.3	2	584	635	20- $\phi$ 32.5
24"	1067	710	630	400	538	815	46.1	2	692	749.5	20- $\phi$ 35.5

**CL300**

NPS	外形尺寸 Dimension				法兰尺寸 Flange dimension						
	L	H	H1	W	d	D	T	f	R	C	n-h
2"	216	121	80	280	49	165	20.7	2	92.1	127.0	8- $\phi$ 19
3"	282	195	88	280	74	210	27	2	127	168.3	8- $\phi$ 22
4"	305	225	145	280	100	255	30.2	2	157.2	200.0	8- $\phi$ 22
6"	403	290	210	350	150	320	35	2	215.9	269.9	12- $\phi$ 22
8"	502	328	280	350	201	380	39.7	2	269.9	330.2	12- $\phi$ 26
10"	568	396	320	400	252	445	46.1	2	323.8	387.4	16- $\phi$ 29
12"	648	445	355	400	303	520	49.3	2	381.0	450.8	16- $\phi$ 32
14"	762	465	400	400	334	585	52.4	2	412.8	514.4	20- $\phi$ 32
16"	838	520	470	400	385	650	55.6	2	469.9	571.5	20- $\phi$ 35
18"	914	560	500	400	436	710	58.8	2	533.5	628.5	24- $\phi$ 35
20"	991	645	540	400	487	775	62	2	584.2	685.8	24- $\phi$ 35
24"	1143	720	630	520	538	915	68.3	2	692	813	24- $\phi$ 42



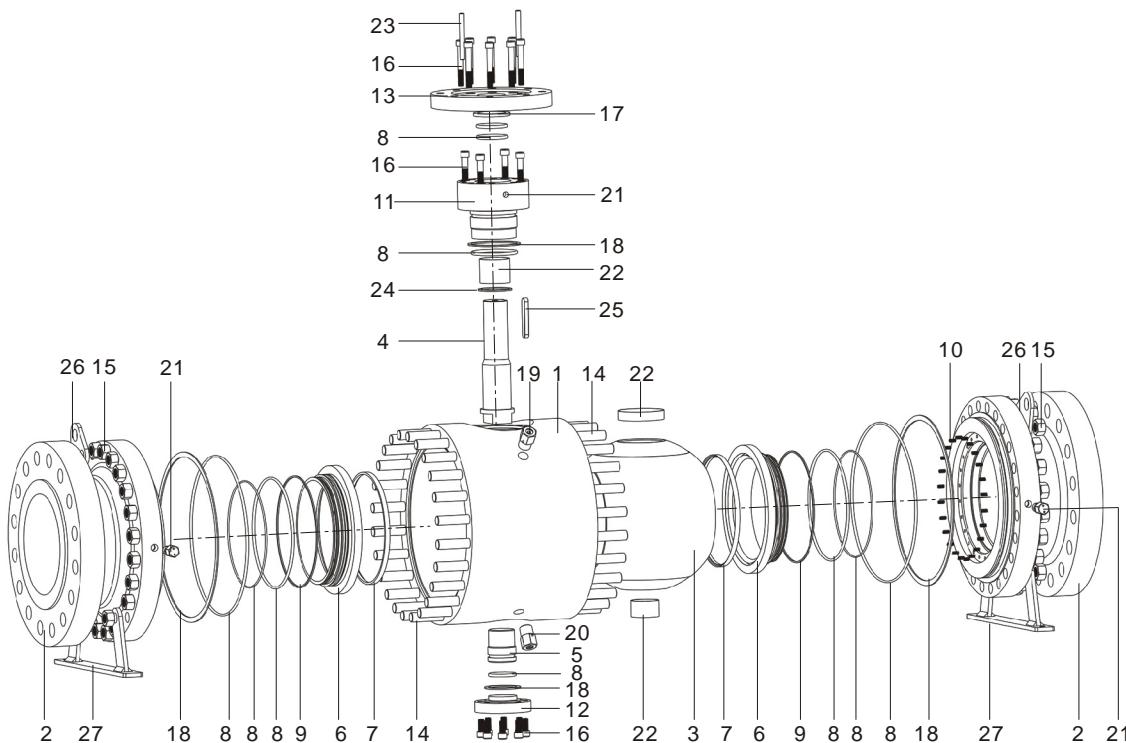
CL600

NPS	外形尺寸 Dimension					法兰尺寸 Flange dimension											
	L(RF)	L(RTJ)	H	H1	W	d	D	T	f	R	C	n-h	K	P	E	F	
2"	292	295	212	96	300	49	165	25.4	7	92.1	127.0	8-Φ19	108	82.55	7.92	11.91	
3"	356	359	212	118	300	74	210	31.8	7	127	168.5	8-Φ22	146	123.83	7.92	11.91	
4"	432	435	225	142	400	100	275	38.1	7	157.2	215.9	8-Φ26	175	149.23	7.92	11.91	
6"	559	562	295	220	400	150	355	47.7	7	215.9	292.1	12-Φ29	241	211.12	7.92	11.91	
8"	660	664	335	280	500	201	420	55.6	7	269.9	349.2	12-Φ32	302	269.88	7.92	11.91	
10"	787	791	400	320	500	252	510	63.5	7	323.8	431.8	16-Φ35	356	323.85	7.92	11.91	
12"	838	841	460	365	420	303	560	66.7	7	381.1	489.0	20-Φ35	413	381.00	7.92	11.91	
14"	889	892	480	400	420	334	605	69.9	7	412.8	527.0	20-Φ38	457	419.10	7.92	11.91	
16"	991	994	520	460	400	385	685	76.2	7	469.9	603.2	20-Φ41	508	469.90	7.92	11.91	
18"	1092	1095	580	500	400	436	745	82.6	7	533.5	654	20-Φ45	575	533.40	7.92	11.91	
20"	1194	1200	670	570	520	487	815	88.9	7	584.2	723.9	24-Φ45	635	584.20	9.35	13.49	
24"	1397	1407	735	660	520	538	940	101.6	7	692	838	24-Φ51	749	692.15	11.13	16.66	

CL900

NPS	外形尺寸 Dimension					法兰尺寸 Flange dimension											
	L(RF)	L(RTJ)	H	H1	W	d	D	T	f	R	C	n-h	K	P	E	F	
2"	368	368	212	105	280	49	215	38.1	7	92.1	165.1	8-Φ26	124	95.25	7.92	11.91	
3"	381	381	220	136	300	74	240	38.1	7	127	190.5	8-Φ26	156	123.83	7.92	11.91	
4"	457	457	262	165	350	100	290	44.5	7	157.2	235.0	8-Φ32	181	149.23	7.92	11.91	
6"	610	610	310	220	350	150	380	55.6	7	215.9	317.5	12-Φ32	241	211.12	7.92	11.91	
8"	737	737	346	280	350	201	470	63.5	7	269.9	393.7	12-Φ38	308	269.88	7.92	11.91	
10"	838	838	415	320	500	252	545	69.9	7	323.8	469.9	16-Φ38	362	323.85	7.92	11.91	
12"	965	965	460	365	500	303	610	79.4	7	381	533.4	20-Φ38	419	381.00	7.92	11.91	
14"	1029	1029	515	420	500	322	640	85.8	7	412.8	558.8	20-Φ41	467	419.10	11.13	16.66	
16"	1130	1130	560	460	500	373	705	88.9	7	469.6	616.0	20-Φ45	524	469.90	11.13	16.66	
18"	1219	1219	570	500	500	423	785	101.6	7	533.5	686	20-Φ51	594	533.40	12.70	19.84	
20"	1321	1321	690	570	600	471	855	108.0	7	584.2	749.3	20-Φ55	648	584.20	12.70	19.84	
24"	1549	1549	750	660	600	522	1040	139.7	7	692	901.5	20-Φ68	772	692.15	15.88	26.97	

组装图 Part Drawing



序号 No.	零件名称 Parts Name	材质 Material			
1/2	阀体/侧体 Body/ Cap	A105	LF2	A182 F304	A182 F316
3	球体 Ball	A105+ENP	LF2+ENP	A182-F304	A182-F316
4/5	阀杆/支承轴 Stem/ Trunnion	4140+ENP	4140+ENP	A276 304	A276 316
6	阀座环 Seat ring	A105+ENP	LF2+ENP	A182 F304	A182 F316
7	密封圈 Sealing ring	PTFE / RPTFE / NYLON			
8	O型圈 O-ring	Viton / FKM / Viton AED			
9	阀座填料 Seat packing	编织石墨 Braided graphite			
10	圆柱弹簧 Spring	Inconel X-750			
11/12	阀盖/底盖 Bonnet/ Bottom	A105	LF2	A182 F304	A182 F316
13	连接盘 The top flange	Q235	Q345	A182 F304	A182 F316
14/15	螺柱/螺母 Stud/ Nut	B7 /2H	L7/4	B8/8	B8/8
16	螺钉 Screw	B7	L7	304	304
17	阀杆填料 Packing	柔性石墨 Graphite			
18	密封垫圈 Sealing gasket	304+Graphite	304+Graphite	304+Graphite	316+Graphite
19/20	泄压阀/排污阀 Release valve/ Drain valve	304	304	304	316
21	注脂阀 Grease fitting	304	304	304	316
22	轴套 Bearing	304+PTFE	304+PTFE	304+PTFE	316+PTFE
23	定位销 Positioning pin	304	304	304	316
24	止推垫片 Thrust washers	PTFE	PTFE	PTFE	PTFE
25	平键 Key	45	45	45	45
26/27	吊耳/支撑座 Lug/ Brackets	Q235	Q235	Q235	Q235

浮动球阀设计扭矩表 Floating ball valve design torque meter.

DN	NPS	各种压差下阀门开启扭矩 All kinds of pressure differential valve opentorque (N.m)				
		0.6MPa	1.0 MPa	1.6MPa/CL150/10K	2.5 MPa	4.0MPa/CL300
15	1/2	6	6	6	6	6
20	3/4	8	8	8	8	8
25	1	10	12	12	13	13
32	11/4	12	15	16	16	20
40	11/2	16	18	20	22	23
50	2	30	33	35	38	40
65	21/2	38	42	50	55	60
80	3	60	80	90	100	115
100	4	90	118	135	160	185
125	5	240	260	300	320	350
150	6	300	350	400	460	480
200	8	500	560	620	635	760

注： 1、本表扭矩为两片式浮动球阀PTFE阀座不同压差下的阀门最大开启扭矩，当阀座材料为增强PTFE时，扭矩会增加20~30%；  
 2、对于气动、电动执行器驱动时，驱动扭矩最低取30%的安全系数。

Note: 1. The torque of this table is the maximum open torque of the valve with two disc floating ball valves with different pressure difference. When the seat material is enhanced PTFE, the torque will increase by 20~30%;  
 2. For pneumatic and electric actuator drive, the safety factor of minimum driving torque is 30%.

固定球阀设计扭矩表 Trunnion ball valve design torque meter.

DN	NPS	各种压差下阀门开启扭矩 All kinds of pressure differential valve opentorque (N.m)					
		1.6MPa/CL150	2.5 MPa	4.0MPa/CL300	6.4 MPa	10.0MPa/CL600	16.0MPa/CL900
50	2	45	50	65	96	120	220
80	3	145	180	220	185	260	420
100	4	210	260	360	380	450	760
150	6	325	385	485	630	965	1510
200	8	640	710	860	1180	1520	2850
250	10	1250	1350	1520	1950	2600	4680
300	12	1720	1900	2380	3100	4200	7100
350	14	2650	2850	3385	4600	6100	10500
400	16	4200	4600	5100	6480	8200	14200
450	18	4900	5300	6500	8600	11600	18800
500	20	6480	6800	7800	10800	13500	25300
600	24	8800	9200	9800	15300	21000	38000



光德流控  
GRANDE-TEK

# 螺纹球阀

THREADED BALL VALVE



# MINI旋纽阀

## Mini Valve (F/F M/F M/M)



### 安装尺寸 Dimensions

标准规范 Standard specification

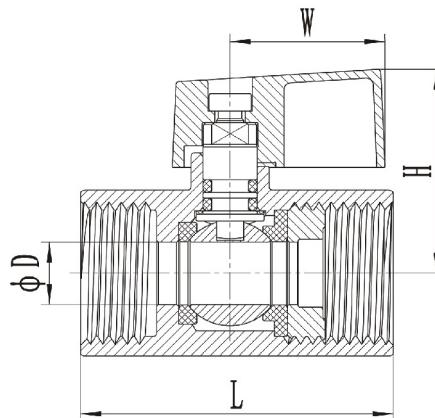
设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21, DIN2999/259,

ISO228-1, JIS B 0203, ISO7-1

试验标准 Inspection: API 598, EN12266

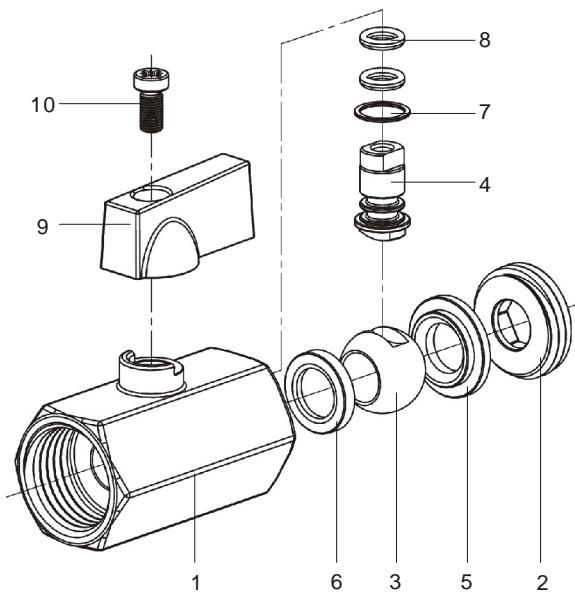


### 设计特点 Design features

1. 缩径设计 Reduced bore
2. 阀杆防暴出设计 Blow-out proof stem
3. 卫生级设计 Sanitary design

SIZE	D	H	W	L (F/F)	L (M/F)	L (M/M)
1/4"	7	26.5	23	42	40	50
3/8"	7	26.5	23	42	40	50
1/2"	9.2	29	23	46	46	58.5
3/4"	12.5	32	23	54	54	71.5
1"	15	35	23	64.5	64.5	83

### 组装图 Part Drawing



序号 No.	名称 Item	材料 Material	
1	阀体 Body	CF8M	CF8
2	侧塞 Cap	F316	F304
3	阀球 Ball	F316	F304
4	阀杆 Stem	F316	F304
5	大阀座 Seat A	PTFE/RTFE	PTFE/RTFE
6	小阀座 Seat B	PTFE/RTFE	PTFE/RTFE
7	止推垫圈 Gasket	PTFE	PTFE
8	O型圈 O-ring	VITON	VITON
9	手柄 Handle	AI	AI
10	螺钉 Screw	304	304

## 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, EN12266



## 设计特点 Design features

1、缩径设计

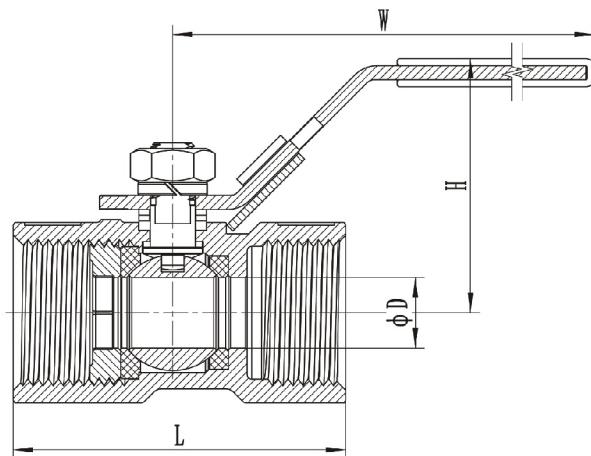
Reduced bore

2、阀杆防暴出设计

Blow-out proof stem

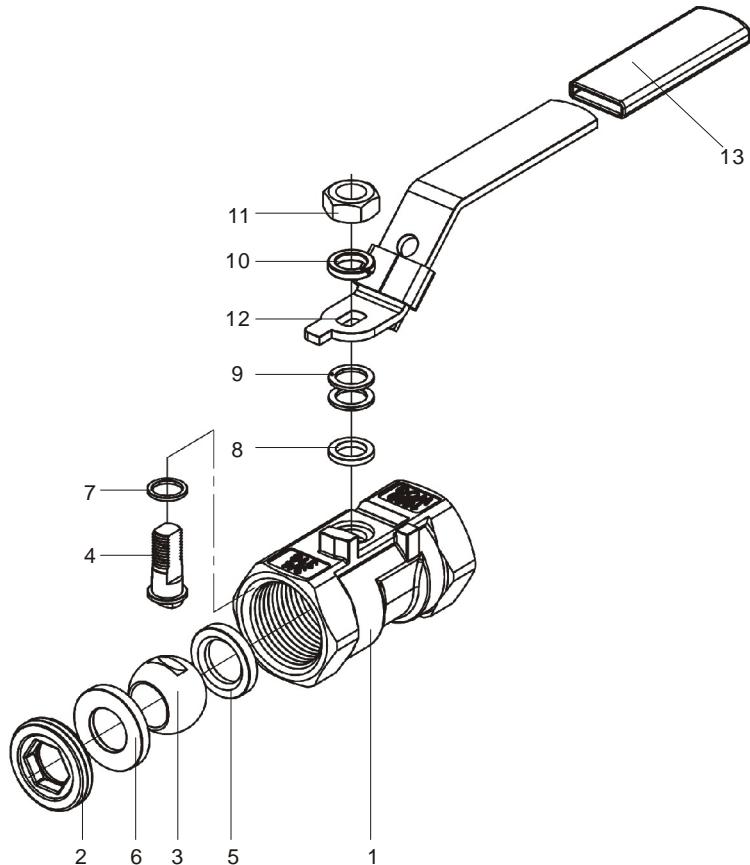
3、加锁手柄或蝶形手柄 (可选)

Lockable handle or butterfly handle (option)



SIZE	D	H	W	L
1/4"	5	33	71	39
3/8"	7	35	93	44
1/2"	9.2	40	95	55
3/4"	12.5	44	95	59
1"	15	50	113	69
1-1/4"	20	57	113	77
1-1/2"	25	64	141	81
2"	32	68	141	97
2-1/2"	38	85	189	127
3"	50	90	189	153

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	侧塞 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	小阀座 Seat B	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	大阀座 Seat A	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
7	止推垫圈 Gasket	PTFE	PTFE	PTFE
8	填料 Stem packing	PTFE	PTFE	PTFE
9	钢垫 Steel washer	F304	F304	F304
10	弹簧垫圈 Spring washer	SS301	SS301	SS301
11	六角螺母 Nut	A2-70	A2-70	A2-70
12	手柄 Handle	304	304	304
13	手柄套 Handle cover	PVC	PVC	PVC

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



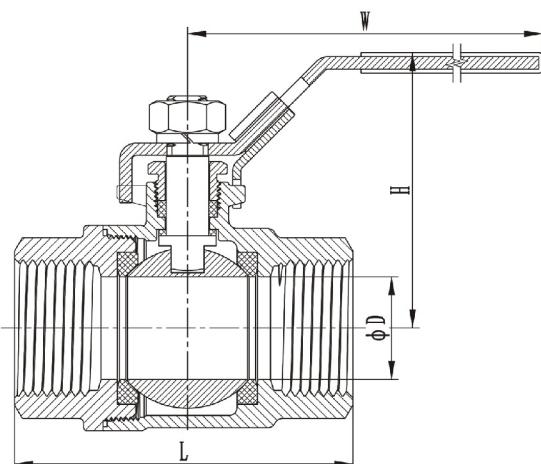
### 设计特点 Design features

1、全通径设计

Full bore

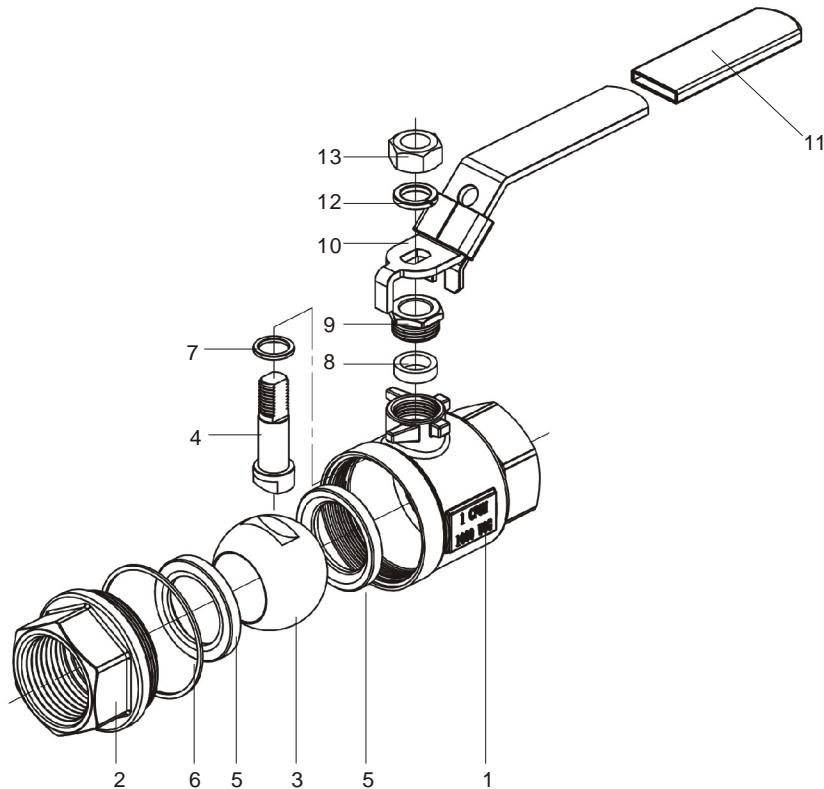
2、阀杆防暴出设计

Blow-out proof stem



SIZE	D	L	W	H
1/4"	11	51.5	104	51
3/8"	12.5	51.5	104	51
1/2"	15	63.5	104	53
3/4"	20	74	126	65
1"	25	86	144	77
1-1/4"	32	98	144	81.5
1-1/2"	38	106	189	94.5
2"	50	122	189	102
2-1/2"	65	159	223	119
3"	76	182	223	129
4"	94	224	298	169

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	阀座 Seat	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	密封垫圈 Cap gasket	PTFE	PTFE	PTFE
7	止推垫圈 Gasket	PTFE	PTFE	PTFE
8	填料 Stem packing	PTFE	PTFE	PTFE
9	格兰 Packing gland	F304	F304	F304
10	手柄 Handle	304	304	304
11	手柄套 Handle cover	PVC	PVC	PVC
12	弹簧垫圈 Spring washer	SS301	SS301	SS301
13	六角螺母 Nut	A2-70	A2-70	A2-70

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



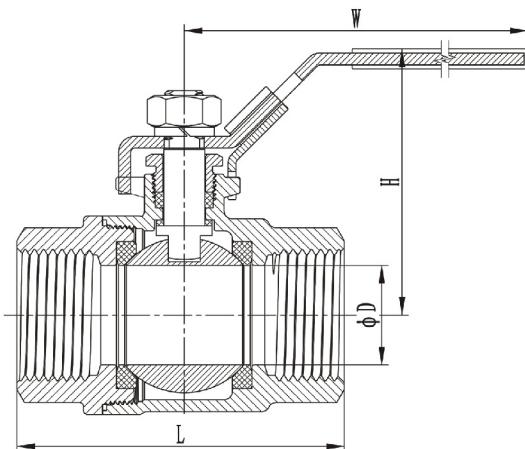
### 设计特点 Design features

1、全通径设计

Full bore

2、阀杆防暴出设计

Blow-out proof stem



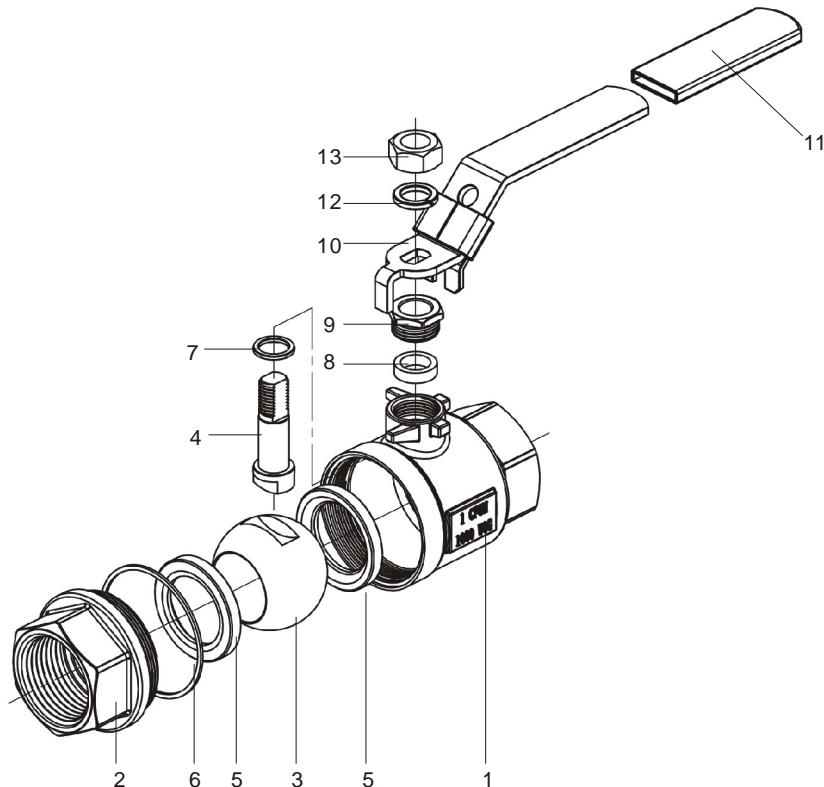
SIZE	D	L	W	H
1/4"	11	51.5	104	51
3/8"	12.5	51.5	104	51
1/2"	15	58	105	52
3/4"	20	65	133	63
1"	25	77	133	65
1-1/4"	32	90	154	80
1-1/2"	38	98.5	154	83.5
2"	50	122.5	188	97
2-1/2"	65	159	223	119
3"	76	182	223	129
4"	94	224	298	169

# 2PC轻型螺纹球阀

## 2PC Threaded Ball Valve Light Type

光德流控  
GRANDE-TEK

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	阀座 Seat	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	密封垫圈 Cap gasket	PTFE	PTFE	PTFE
7	止推垫圈 Gasket	PTFE	PTFE	PTFE
8	填料 Stem packing	PTFE	PTFE	PTFE
9	格兰 Packing gland	F304	F304	F304
10	手柄 Handle	304	304	304
11	手柄套 Handle cover	PVC	PVC	PVC
12	弹簧垫圈 Spring washer	SS301	SS301	SS301
13	六角螺母 Nut	A2-70	A2-70	A2-70

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

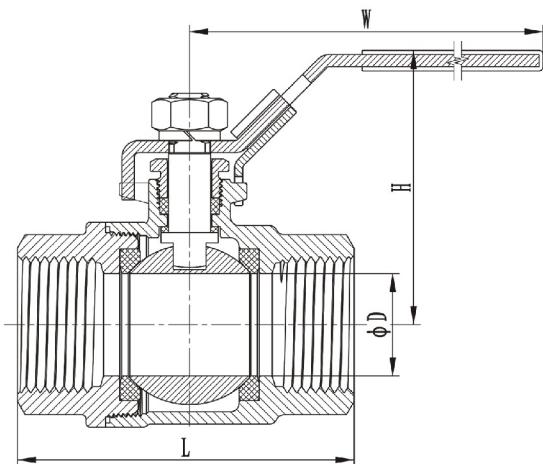
ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



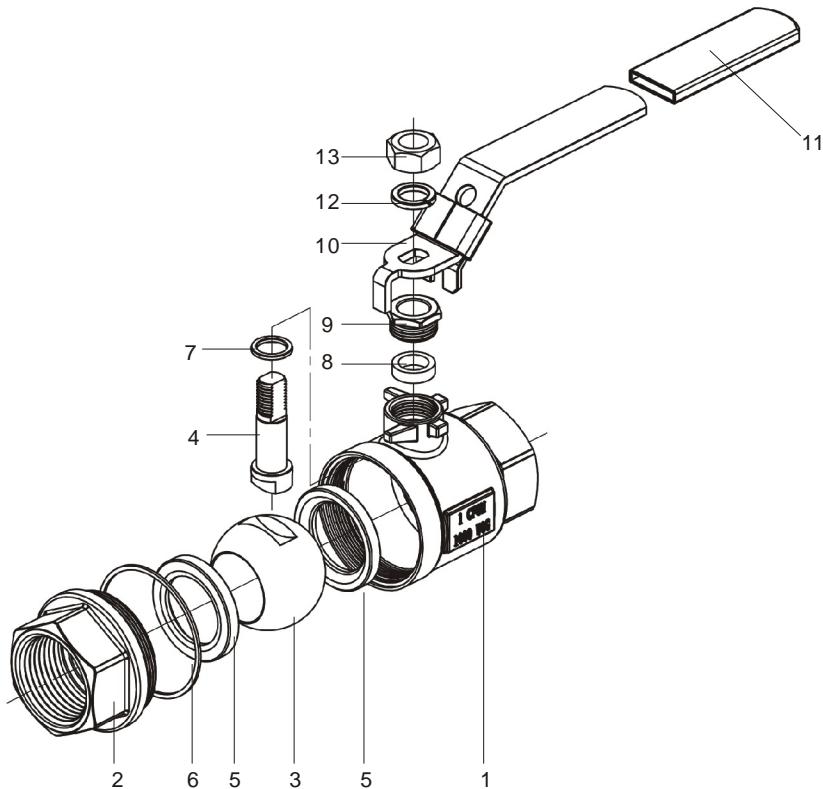
### 设计特点 Design features

- 1.全通径设计 Full bore
- 2.阀杆防暴出设计 Blow-out proof stem



SIZE	D	L	W	H
3/8"	12.5	60	103	51
1/2"	15	75	103	53
3/4"	20	80	126	65
1"	25	90	144	77
1-1/4"	32	110	144	81.5
1-1/2"	38	120	189	94.5
2"	50	140	189	102
2-1/2"	65	185	223	119
3"	76	205	223	129
4"	94	240	297	169

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	阀座 Seat	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	密封垫圈 Cap gasket	PTFE	PTFE	PTFE
7	止推垫圈 Gasket	PTFE	PTFE	PTFE
8	填料 Stem packing	PTFE	PTFE	PTFE
9	格兰 Packing gland	F304	F304	F304
10	手柄 Handle	304	304	304
11	手柄套 Handle cover	PVC	PVC	PVC
12	弹簧垫圈 Spring washer	SS301	SS301	SS301
13	六角螺母 Nut	A2-70	A2-70	A2-70

## 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API598, En12266



## 设计特点 Design features

1、全通径设计

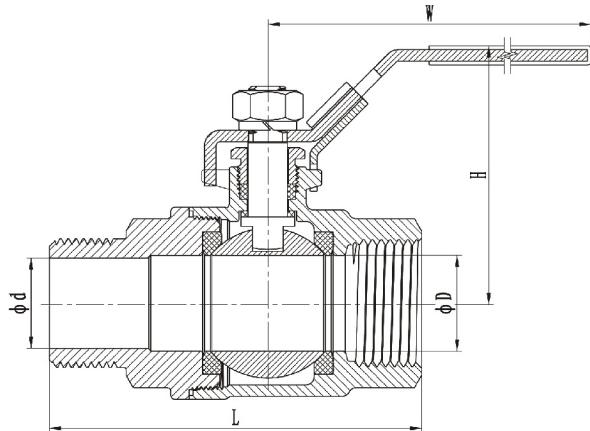
Full bore

2、阀杆防暴出设计

Blow-out proof stem

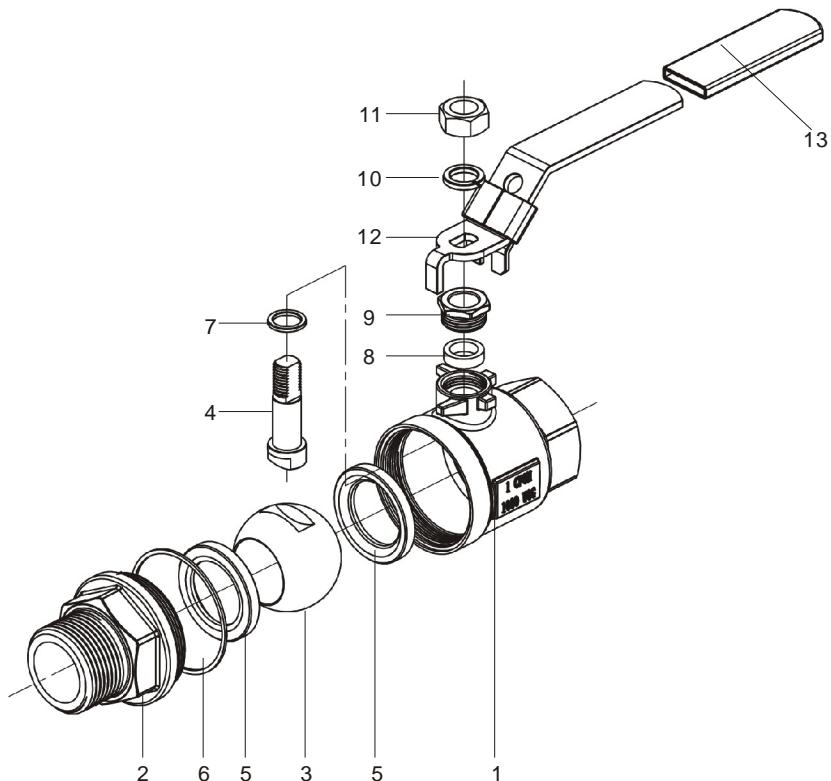
3、内外牙连接

Male & Female thread



SIZE	d	D	L	W	H
1/4"	7	11	60.5	104	51
3/8"	10.5	12.5	60.5	104	51
1/2"	13.5	15	78.5	104	53
3/4"	18.5	20	88.5	126	65
1"	23	25	100	144	77
1-1/4"	31	32	110.5	144	81.5
1-1/2"	36	38	121	189	94.5
2"	48	50	141.5	189	102

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	阀座 Seat	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	密封垫圈 Cap gasket	PTFE	PTFE	PTFE
7	止推垫圈 Gasket	PTFE	PTFE	PTFE
8	填料 Stem packing	PTFE	PTFE	PTFE
9	格兰 Packing gland	F304	F304	F304
10	弹簧垫圈 Spring washer	SS301	SS301	SS301
11	六角螺母 Nut	A2-70	A2-70	A2-70
12	手柄 Handle	304	304	304
13	手柄套 Handle cover	PVC	PVC	PVC

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



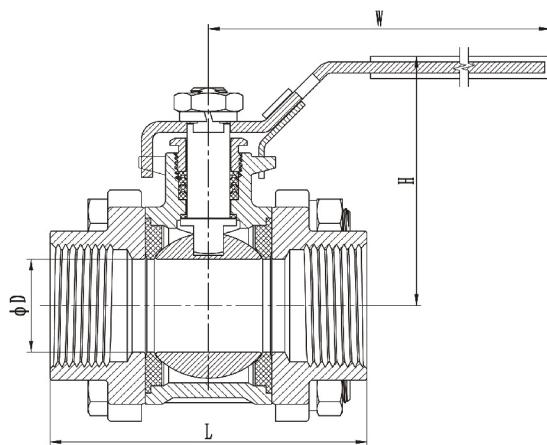
### 设计特点 Design features

1、全通径设计

Full bore

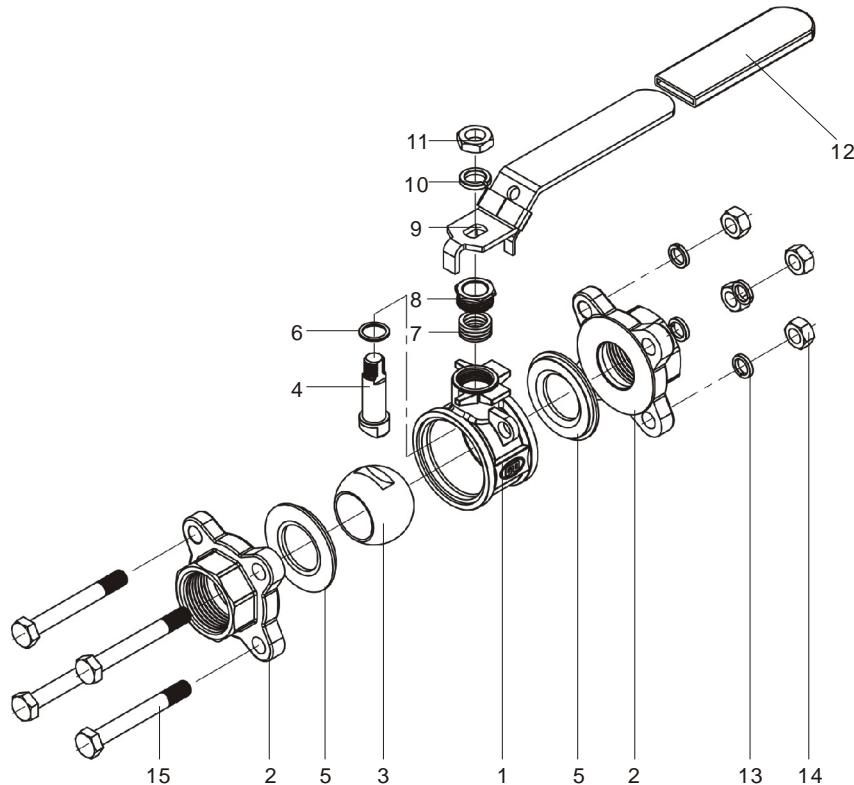
2、阀杆防暴出设计

Blow-out proof stem



SIZE	D	L	W	H
1/4"	11	64	104	51
3/8"	12.5	64	104	51
1/2"	15	72	104	53
3/4"	20	80	126	65
1"	25	85	144	77
1-1/4"	32	105	144	81.5
1-1/2"	38	113	189	94.5
2"	50	132	189	102
2-1/2"	65	170	223	119
3"	76	186.5	223	126
4"	94	226.5	298	169

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	阀座 Seat	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	止推垫圈 Gasket	PTFE	PTFE	PTFE
7	填料 Stem packing	PTFE	PTFE	PTFE
8	格兰 Packing gland	F304	F304	F304
9	手柄 Handle	304	304	304
10	弹簧垫圈 Spring washer	SS301	SS301	SS301
11	六角螺母 Nut	A2-70	A2-70	A2-70
12	手柄套 Handle cover	PVC	PVC	PVC
13	弹簧垫圈 Spring washer	SS301	SS301	SS301
14	六角螺母 Nut	A2-70	A2-70	A2-70
15	螺栓 Bolt	A2-70	A2-70	A2-70

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,  
ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



### 设计特点 Design features

1、全通径设计

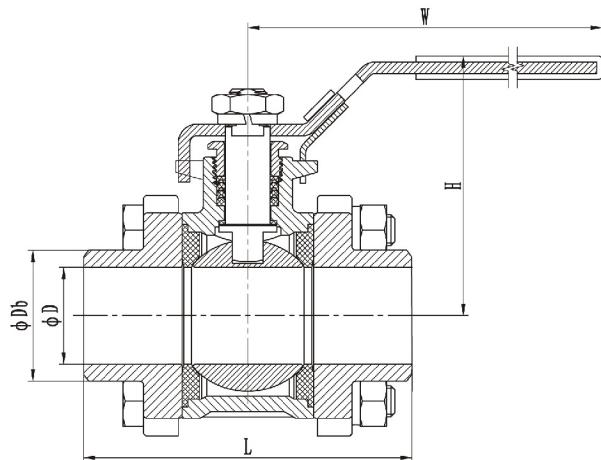
Full bore

2、阀杆防暴出设计

Blow-out proof stem

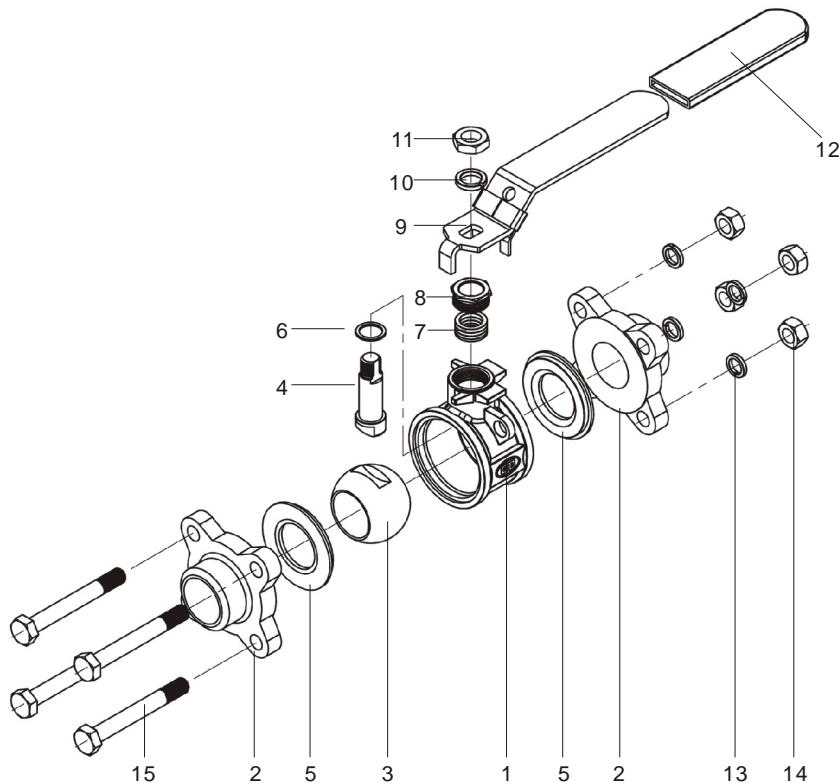
3、对焊连接

Butt weld connection



SIZE	D	L	W	H	Db
1/4"	11	61	104	51	15.2
3/8"	12.5	61	104	51	17.2
1/2"	15	63	104	53	22.5
3/4"	20	78	126	65	27.5
1"	25	87	144	77	34
1-1/4"	32	97	144	81.5	43
1-1/2"	38	113	189	94.5	50
2"	50	134	189	102	62
21/2"	65	170	223	119	77
3"	76	192	223	126	90
4'	94	244	298	169	115

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	阀座 Seat	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	止推垫圈 Gasket	PTFE	PTFE	PTFE
7	填料 Stem packing	PTFE	PTFE	PTFE
8	格兰 Packing gland	F304	F304	F304
9	手柄 Handle	304	304	304
10	弹簧垫圈 Spring washer	SS301	SS301	SS301
11	六角螺母 Nut	A2-70	A2-70	A2-70
12	手柄套 Handle cover	PVC	PVC	PVC
13	弹簧垫圈 Spring washer	SS301	SS301	SS301
14	六角螺母 Nut	A2-70	A2-70	A2-70
15	螺栓 Bolt	A2-70	A2-70	A2-70

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



### 设计特点 Design features

1、全通径设计

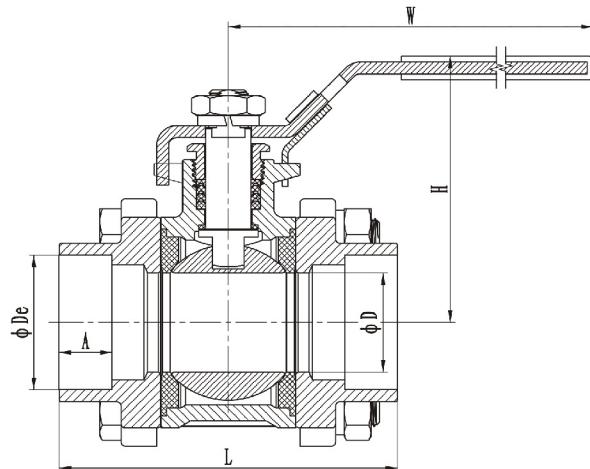
Full bore

2、阀杆防暴出设计

Blow-out proof stem

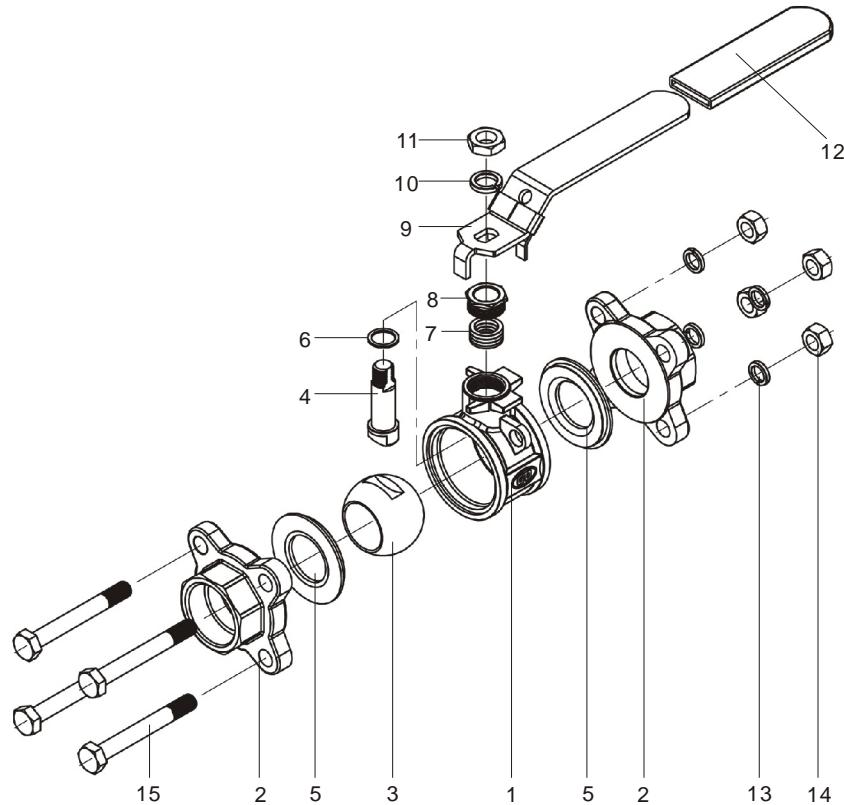
3、插焊连接

Socket weld connection



SIZE	D	L	W	H	De
1/4"	11	64	104	51	14.1
3/8"	12.5	64	104	51	17.6
1/2"	15	72	104	53	21.7
3/4"	20	80	126	65	27.1
1"	25	85	144	77	33.8
1-1/4"	32	105	144	81.5	42.6
1-1/2"	38	113	189	94.5	48.7
2"	50	132	189	102	61.1
21/2"	65	170	223	119	76.9
3"	76	186.5	223	126	89.8
4'	94	226.5	298	169	115.8

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	阀座 Seat	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	止推垫圈 Gasket	PTFE	PTFE	PTFE
7	填料 Stem packing	PTFE	PTFE	PTFE
8	格兰 Packing gland	F304	F304	F304
9	手柄 Handle	304	304	304
10	弹簧垫圈 Spring washer	SS301	SS301	SS301
11	六角螺母 Nut	A2-70	A2-70	A2-70
12	手柄套 Handle cover	PVC	PVC	PVC
13	弹簧垫圈 Spring washer	SS301	SS301	SS301
14	六角螺母 Nut	A2-70	A2-70	A2-70
15	螺栓 Bolt	A2-70	A2-70	A2-70

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

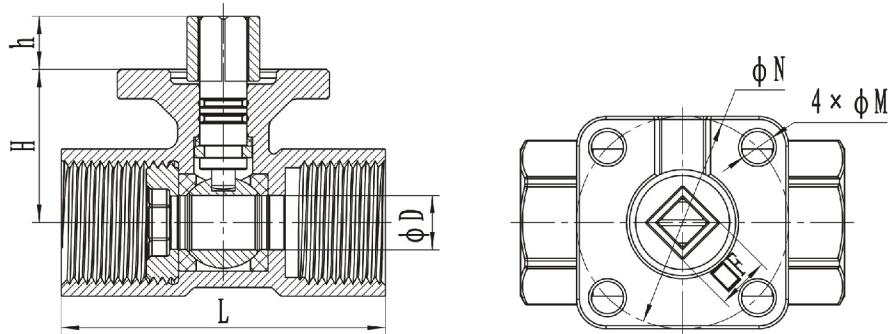
ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



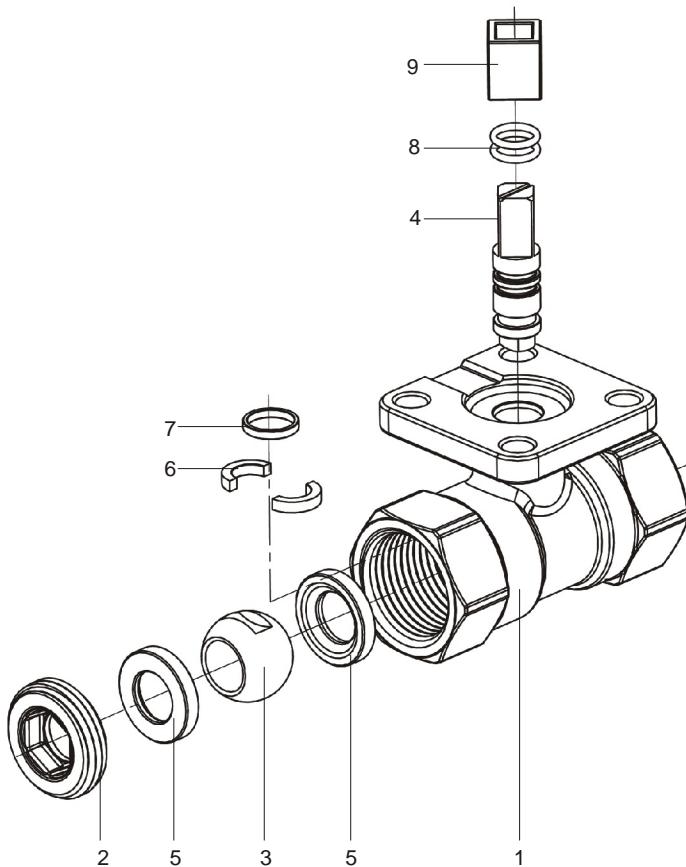
### 设计特点 Design features

- 1、缩径设计 Reduced bore
- 2、阀杆防暴出设计 Blow-out proof stem
- 3、ISO 5211标准执行器安装平台设计  
ISO 5211 standard actuator mounting pad
- 4、阀杆部位垫片+O型圈设计 Stem packing with O-ring design



SIZE	D	L	H	h	F	M	N	ISO5211
1/4"	7	43	24.5	9	6	6.5	36	F03
3/8"	7	45	24.5	9	6	6.5	36	F03
1/2"	9.2	55	26	9	6	6.5	36	F03
3/4"	12.5	60	32	9	9	6.5	36	F03
1"	15	73	35	9	9	6.5	36	F03
1-1/4"	20	78	38	9	9	6.5	36	F03
1-1/2"	25	89	42	11	11	7	50	F05
2"	32	100	50	11	11	7	50	F05

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	侧塞 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	阀座 Seat	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	开放环 Split collar	304	304	304
7	止推垫圈 Gasket	PTFE	PTFE	PTFE
8	O型圈 O-ring	VITON	VITON	VITON
9	轴套 Axle sleeve	Q235+Zn	Q235+Zn	Q235+Zn

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

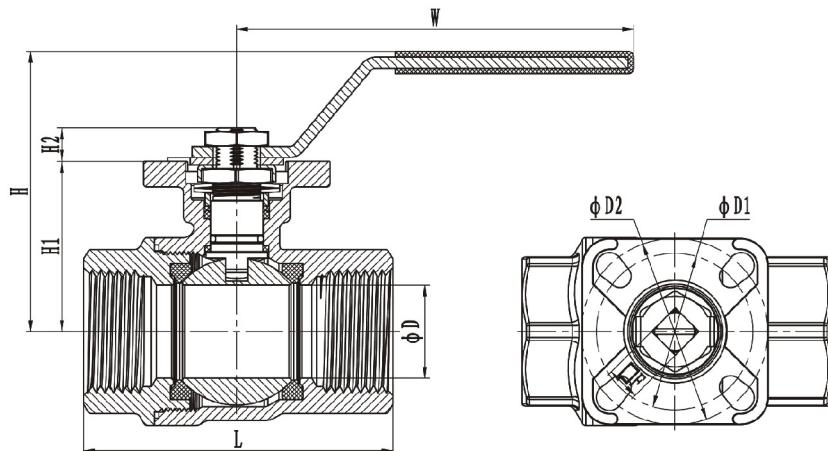
ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



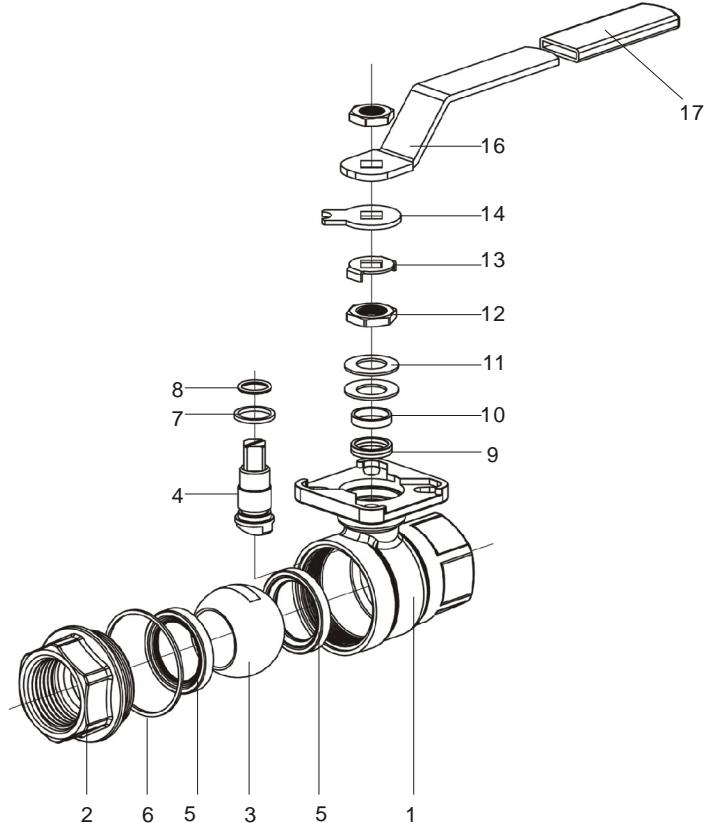
### 设计特点 Design features

- 1、通径设计 Reduced bore
- 2、阀杆防暴出设计 Blow-out proof stem
- 3、防静电装置 Antistatic device
- 4、ISO 5211标准执行器安装平台设计  
ISO 5211 standard actuator mounting pad
- 5、阀杆部位垫片+O型圈设计 Stem packing with O-ring design



SIZE	D	L	W	H	H1	H2	F	D1	D2	ISO5211
1/4"	11	50	115	61	37	9	9	36	42	F03/F04
3/8"	12.5	50	115	61	37	9	9	36	42	F03/F04
1/2"	15	55	115	63	38	9	9	36	42	F03/F04
3/4"	20	76	162	79	42.5	9	9	36	42	F03/F04
1"	25	83	162	83	46	9	9	42	50	F04/F05
1-1/4"	32	100	162	88	52	9	9	42	50	F04/F05
1-1/2"	38	103	205	94	60	11	11	50	70	F05/F07
2"	50	136	205	104	69.5	11	11	50	70	F05/F07

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	阀座 Seat	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	密封垫圈 Cap gasket	PTFE	PTFE	PTFE
7	止推垫圈 Gasket	PTFE	PTFE	PTFE
8	O型圈 O-ring	VITON	VITON	VITON
9	填料 Stem packing	PTFE	PTFE	PTFE
10	填料压环 Packing gland	F304	F304	F304
11	蝶形弹簧 Spring washer	SS301	SS301	SS301
12	六角螺母 Nut	A2-70	A2-70	A2-70
13	防松垫片 Locking washer	304	304	304
14	定位片 Position washer	304	304	304
15	六角螺母 Nut	A2-70	A2-70	A2-70
16	手柄 Handle	304	304	304
17	手柄套 Handle cover	PVC	PVC	PVC

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

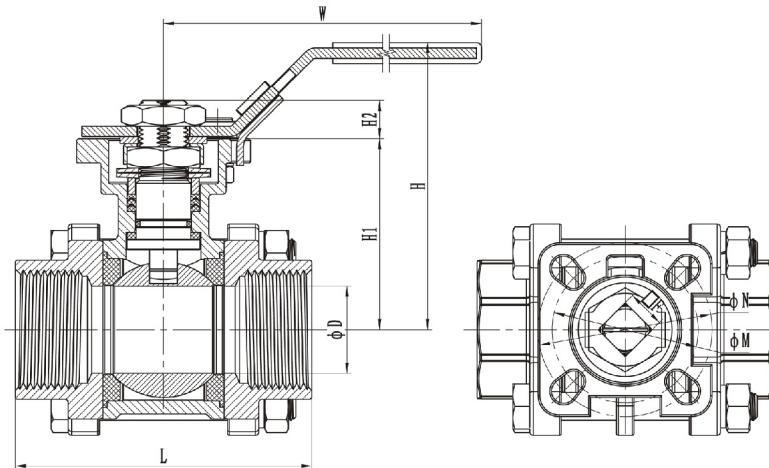
ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



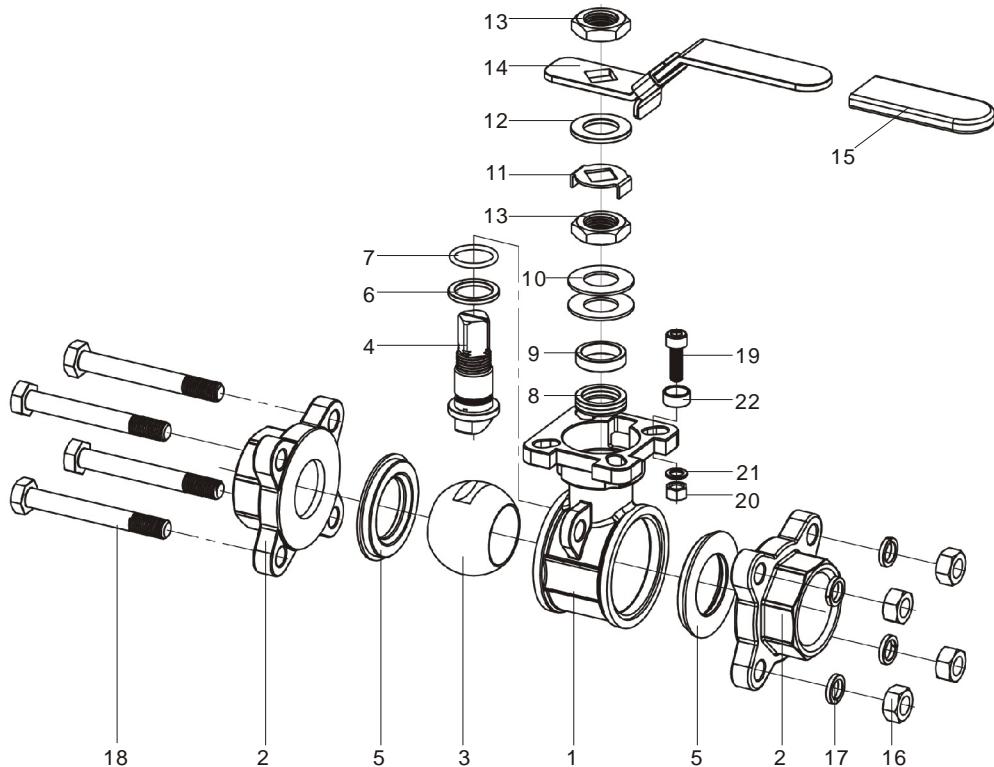
### 设计特点 Design features

- 1、全通径设计 Full bore
- 2、阀杆防暴出设计 Blow-out proof stem
- 3、ISO 5211标准执行器安装平台设计  
ISO 5211 standard actuator mounting pad
- 4、阀杆部位垫片+O型圈+填料多重密封  
Stem packing with O-ring and multiple seal



SIZE	D	L	W	H	H1	H2	F	M	N	ISO5211
1/4"	9.7	64	141	72	38.5	9	9	36	42	F03/F04
3/8"	12.5	64	141	72	38.5	9	9	36	42	F03/F04
1/2"	15	66	141	75	42	9	9	36	42	F03/F04
3/4"	20	79	141	81	48	9	9	36	42	F03/F04
1"	25	85	162	93	55	11	11	42	50	F04/F05
1-1/4"	32	105	162	98	60	11	11	42	50	F04/F05
1-1/2"	38	113	188	109	70	14	14	50	70	F05/F07
2"	50	132	188	124	85	14	14	50	70	F05/F07
21/2"	65	170	233	156	109	19	17	70	102	F07/F10
3"	76	186.5	233	165	118	19	17	70	102	F07/F10
4"	94	226.5	323	186	133	22	22	70	102	F07/F10

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	阀座 Seat	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	止推垫圈 Gasket	PTFE	PTFE	PTFE
7	O型圈 O-ring	VITON	VITON	VITON
8	填料 Stem packing	PTFE	PTFE	PTFE
9	填料压环 Packing gland	304	304	304
10	蝶型弹簧 Spring washer	SS301	SS301	SS301
11	防松垫圈 Locking washer	304	304	304
12	钢垫 Steel washer	304	304	304
13	六角螺母 Nut	A2-70	A2-70	A2-70
14	手柄 Handle	304	304	304
15	手柄套 Handle cover	PVC	PVC	PVC
16	六角螺母 Nut	A2-70	A2-70	A2-70
17	弹簧垫圈 Spring washer	SS301	SS301	SS301
18	六角头螺栓 Bolt	A2-70	A2-70	A2-70
19	内六角圆柱头螺钉 Screws	A2-70	A2-70	A2-70
20	六角螺母 Nut	A2-70	A2-70	A2-70
21	钢垫 Steel washer	304	304	304
22	定位套 Locating pin	304	304	304

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

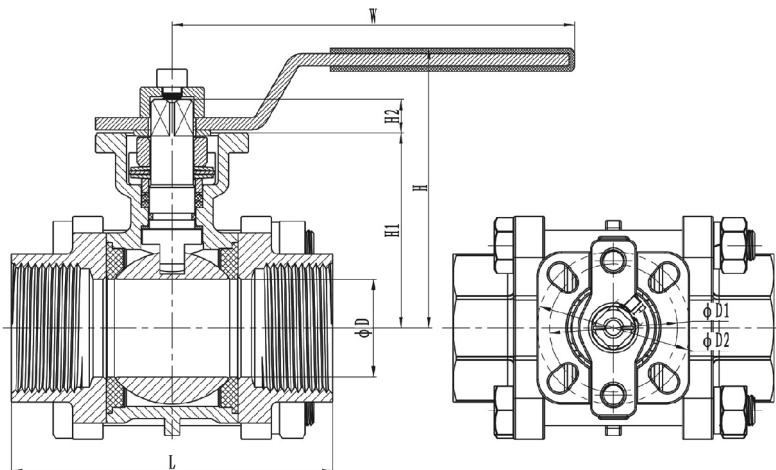
ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



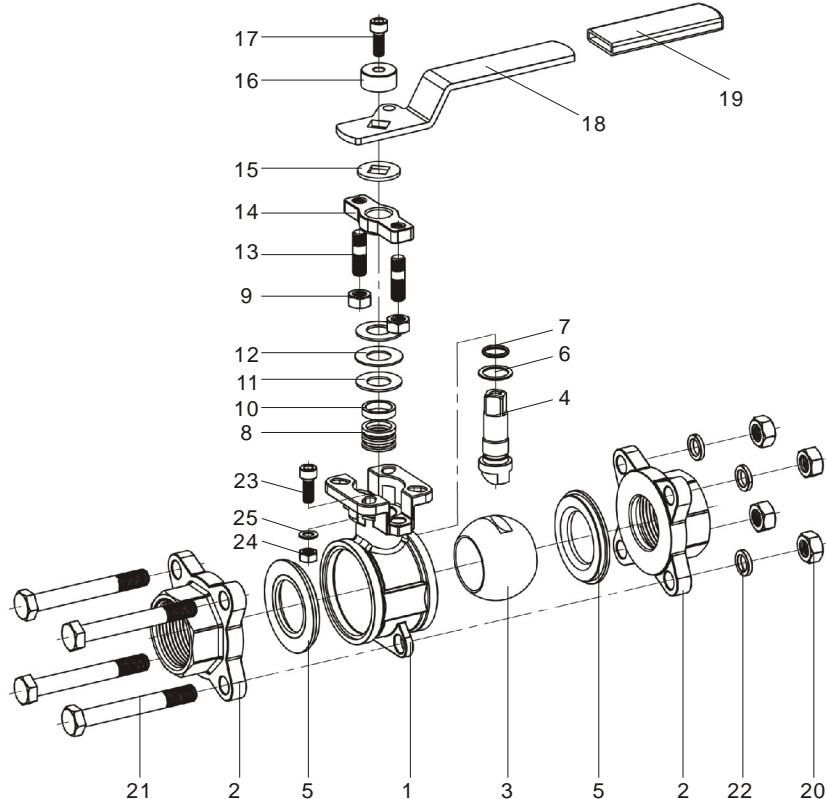
### 设计特点 Design features

- 1、全通径设计 Full bore
- 2、阀杆防暴出设计 Blow-out proof stem
- 3、符合API608要求不拆除手柄或执行机构就可以调整填料密封  
Adjustable stem packing without discharging handle or actuator
- 4、ISO 5211标准执行器安装平台设计  
ISO 5211 standard actuator mounting pad
- 5、阀杆部位垫片+O型圈+填料多重密封  
Stem packing with O-ring and multiple seal



规格 Size	D	L	W	H	H1	H2	F	D1	D2	ISO5211	BW		SW	
											Db	Lb	De	A
1/2"	15	66	112	67	44	6.5	9	36	42	F03/F04	22.5	63	21.7	10
3/4"	20	79	112	71	48	8.5	9	36	42	F03/F04	27.5	78	27.1	13
1"	25	85	132	85	56.5	11	11	42	50	F04/F05	34	87	33.8	13
1-1/4"	32	105	132	92	64	11	11	42	50	F04/F05	43	97	42.6	13
1-1/2"	38	113	172	112	77	14.5	14	50	70	F05/F07	50	113	48.7	13
2"	50	132	172	120	85	14.5	14	50	70	F05/F07	62	134	61.1	16

组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cap	CF8M	CF8	WCB
3	阀球 Ball	F316	F304	F304
4	阀杆 Stem	F316	F304	F304
5	阀座 Seat	PTFE/RTFE	PTFE/RTFE	PTFE/RTFE
6	止推垫圈 Gasket	PTFE	PTFE	PTFE
7	O型圈 O-ring	VITON	VITON	VITON
8	填料 Stem packing	PTFE	PTFE	PTFE
9	I型六角螺母 Nut	A2-70	A2-70	A2-70
10	填料压环 Packing gland	A276-304	A276-304	A276-304
11	蝶型弹簧 Spring washer	SS301	SS301	SS301
12	钢垫 Steel washer	A240-304	A240-304	A240-304
13	全牙螺柱 Screw-wide teeth	A2-70	A2-70	A2-70
14	填料压盖 Packing gland	A351-CF8	A351-CF8	A351-CF8
15	方孔钢垫 Steel washer	A240-304	A240-304	A240-304
16	手柄压帽 Handle cap	A376-304	A376-304	A376-304
17	内六角圆柱头螺钉 Screws	A2-70	A2-70	A2-70
18	手柄 Handle	A240-304	A240-304	A240-304
19	手柄套 Handle cover	PVC	PVC	PVC
20	I型六角螺母 Nut	A2-70	A2-70	A2-70
21	六角头螺栓 Bolt	A2-70	A2-70	A2-70
22	弹簧垫圈 Spring washer	SS301	SS301	SS301
23	内六角圆柱头螺钉 Screws	A2-70	A2-70	A2-70
24	I型六角螺母 Nut	A2-70	A2-70	A2-70
25	钢垫 Steel washer	A240-304	A240-304	A240-304
26	定位套 Locating pin	A276-304	A276-304	A276-304

## 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

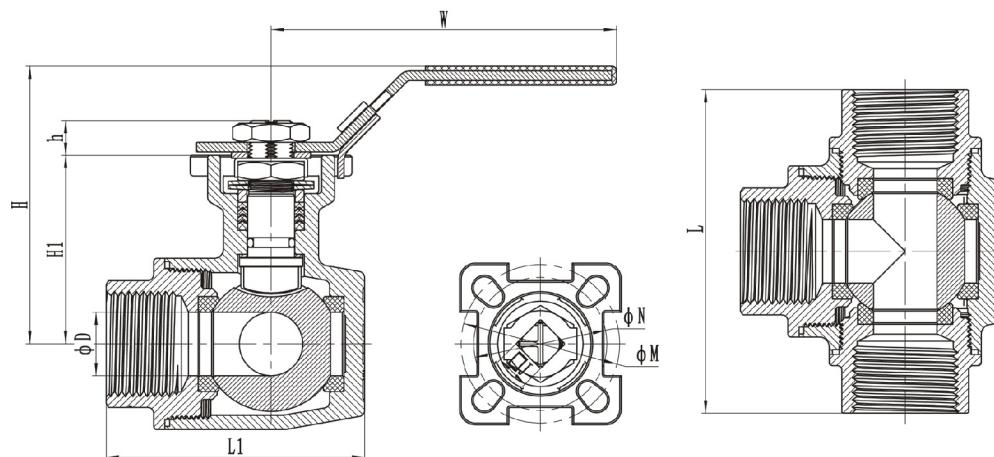
ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



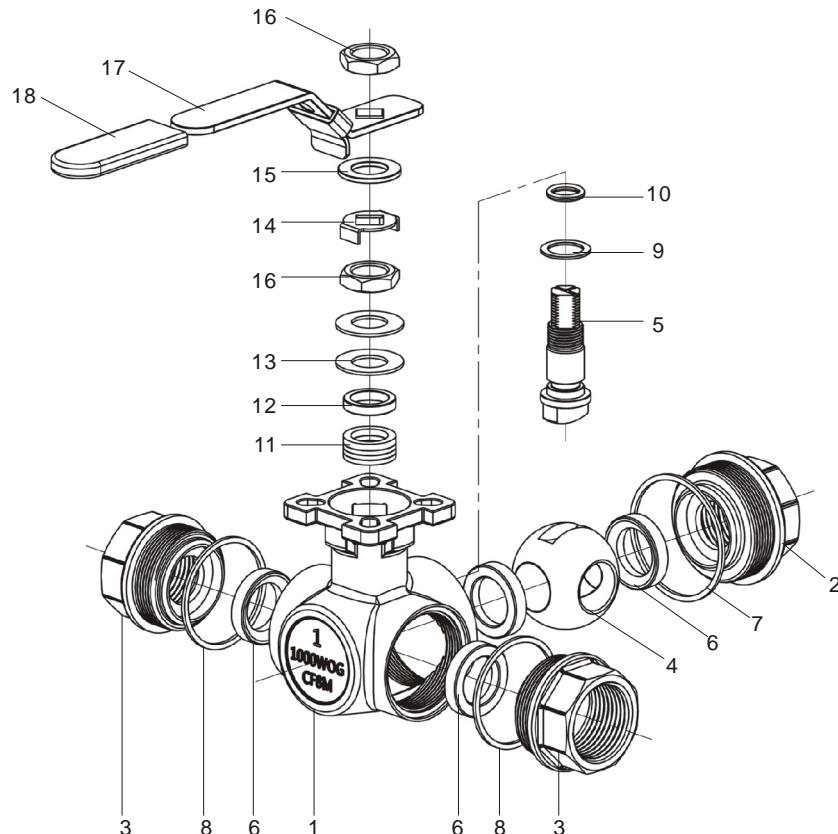
## 设计特点 Design features

- 1、缩径设计 Reduced bore
- 2、阀杆防暴出设计 Blow-out proof stem
- 3、ISO 5211标准执行器安装平台设计  
ISO 5211 standard actuator mounting pad
- 4、阀杆部位垫片+O型圈+填料多重密封  
Stem packing with O-ring and multiple seal
- 5、L型&T型 可选 L type & T type (option)



SIZE	D	L	L1	W	H	H1	h	J	M	N	ISO5211
1/4"	9	80	64	141	75	42	9	9	36	42	F03/F04
3/8"	11	80	64	141	75	42	9	9	36	42	F03/F04
1/2"	12.5	80	64	141	75	42	9	9	36	42	F03/F04
3/4"	16	83	68	141	82	49	9	9	36	42	F03/F04
1"	20	102	81.5	163	97.5	59.5	11	11	42	50	F04/F05
1-1/4"	25	111	90	163	101	63	11	11	42	50	F04/F05
1-1/2"	32	126	106.5	187	112.5	73.5	14	14	50	70	F05/F07
2"	38	146.5	123	187	122	82.5	14	14	50	70	F05/F07

组装图 Part Drawing



序号 No.	名称 Item	材料 Material	
1	阀体 Body	CF8M	CF8
2	大阀盖 Cap A	CF8M	CF8
3	小阀盖 Cap B	CF9M	CF9
4	阀球 Ball	F316	F304
5	阀杆 Stem	F316	F304
6	阀座 Seat	PTFE/RTFE	PTFE/RTFE
7	密封垫圈 Gasket	PTFE	PTFE
8	密封垫圈 Gasket	PTFE	PTFE
9	止推垫圈 Gasket	PTFE	PTFE
10	O型圈 O-ring	VITON	VITON
11	填料 Stem packing	PTFE	PTFE
12	填料压环 Packing gland	304	304
13	蝶型弹簧 Spring washer	SS301	SS301
14	防松垫圈 Locking washer	304	304
15	钢垫 Steel washer	304	304
16	六角螺母 Nut	A2-70	A2-70
17	手柄 Handle	304	304
18	手柄套 Handle cover	PVC	PVC

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 1000PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266



### 设计特点 Design features

1、缩径设计 Reduced bore

2、阀杆防暴出设计 Blow-out proof stem

3、ISO 5211标准执行器安装平台设计

ISO 5211 standard actuator mounting pad

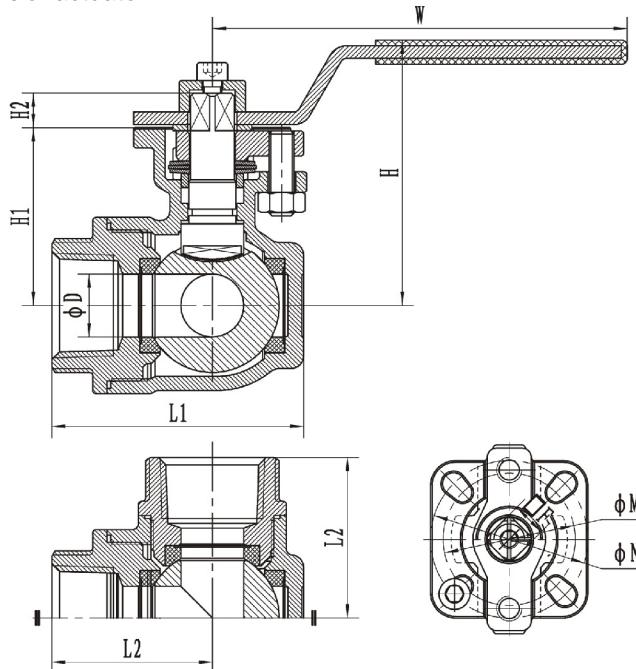
4、符合API608要求不拆除手柄或执行机构就可以调整填料密封

Adjustable stem packing without discharging handle or actuator

5、阀杆部位垫片+O型圈+填料多重密封

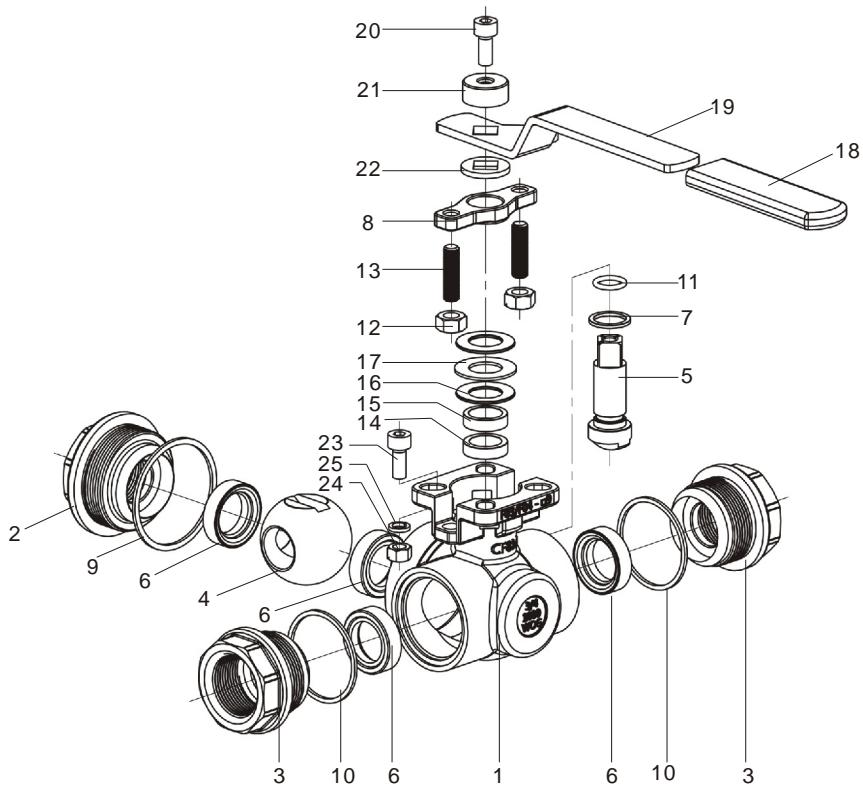
Stem packing with O-ring and multiple seal

6、L型&T型 可选 L type & T type (option)



SIZE	D	L1	L2	W	H	H1	H2	F	M	N	ISO5211
1/2"	12.7	60.5	40	112	66.5	41.5	8.5	9	36	42	F03/F04
3/4"	16	66	41.5	112	68.5	45	9	9	36	42	F03/F04
1"	20	80	51	132	84.5	56	11	11	42	50	F04/F05
1-1/4"	25	90	55.5	132	90.5	62.5	11	11	42	50	F04/F05
1-1/2"	32	103	63	172	111	76	14.5	14	50	70	F05/F07
2"	38	122.5	73.5	172	120	85	14.5	14	50	70	F05/F07

组装图 Part Drawing



序号 No.	名称 Item	材料 Material	
1	阀体 Body	CF8M	CF8
2	大阀盖 Cap A	CF8M	CF8
3	小阀盖 Cap B	CF8M	CF8
4	阀球 Ball	F316	F304
5	阀杆 Stem	F316	F304
6	阀座 Seat	PTFE/RTFE	PTFE/RTFE
7	止推垫圈 Gasket	PTFE	PTFE
8	填料压盖 Packing gland	A351-CF8	A351-CF8
9	密封垫圈 Gasket	PTFE	PTFE
10	密封垫圈 Gasket	PTFE	PTFE
11	O型圈 O-ring	VITON	VITON
12	六角螺母 Nut	A2-70	A2-70
13	全牙螺柱 Screw-wide teeth	A2-70	A2-70
14	填料 Stem packing	PTFE	PTFE
15	填料压环 Packing gland	304	304
16	蝶型弹簧 Spring washer	SS301	SS301
17	钢垫 Steel washer	304	304
18	手柄套 Handle cover	PVC	PVC
19	手柄 Handle	304	304
20	内六角圆柱头螺钉 Screws	A2-70	A2-70
21	手柄压帽 Locking nut	304	304
22	钢垫 Steel washer	304	304
23	内六角圆柱头螺钉 Screws	A2-70	A2-70
24	六角螺母 Nut	A2-70	A2-70
25	钢垫 Steel washer	304	304

## 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

公称压力 Rating: 800PSI

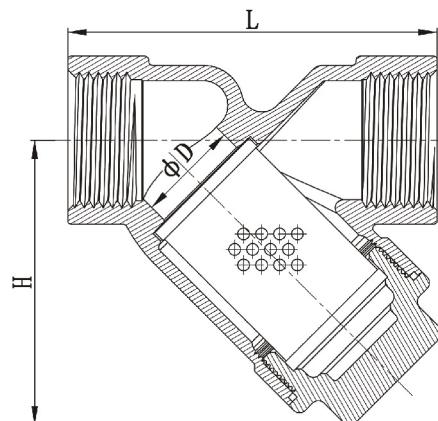
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ISO228-1,JIS B 0203,ISO7-1

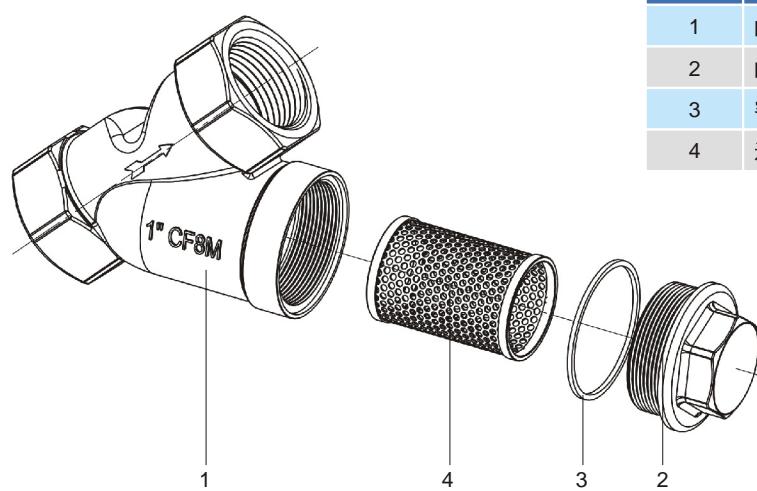
试验标准 Inspection: API 598, En12266



SIZE	D	L	H
3/8"	12	65	42
1/2"	15	65	42
3/4"	20	80	51
1"	25	90	65
1 1/4"	32	105	66
1 1/2"	40	120	75
2"	50	138	86
2 1/2"	65	183	112
3"	76	198	123



## 组装图 Part Drawing



序号 No.	名称 Item	材料 Material	
1	阀体 Body	CF8M	CF8
2	阀盖 Cap	CF8M	CF8
3	密封垫圈 Cap gasket	PTFE	PTFE
4	过滤网 Mesh	316	304

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

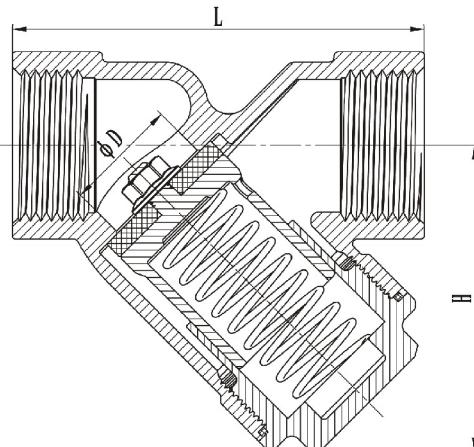
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螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

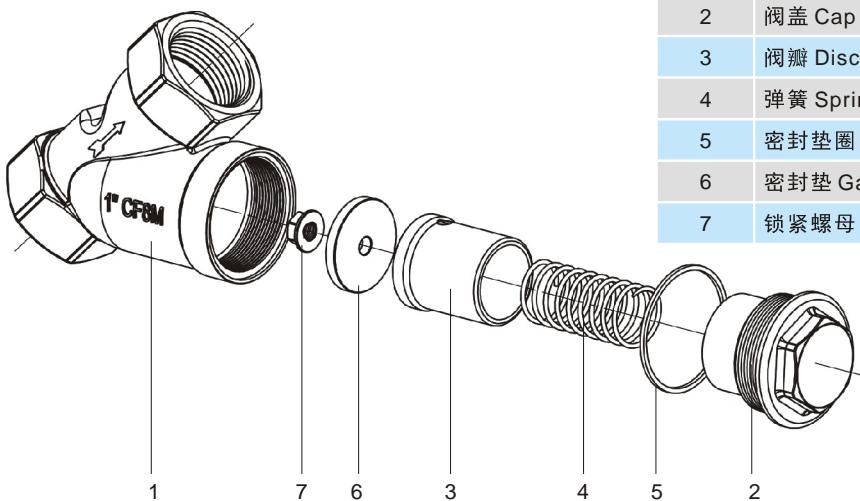
ISO228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266

SIZE	D	L	H
1/4"	12	65	44
3/8"	12	65	44
1/2"	15	65	44
3/4"	20	80	54
1"	25	90	66.5
1 1/4"	32	105	68
1 1/2"	40	120	78
2"	50	138	93
2 1/2"	65	183	121
3"	76	198	137



### 组装图 Part Drawing



序号 No.	名称 Item	材料 Material	
1	阀体 Body	CF8M	CF8
2	阀盖 Cap	F316	F304
3	阀瓣 Disc	F316	F304
4	弹簧 Spring	F316	F304
5	密封垫圈 Cap gasket	PTFE	PTFE
6	密封垫 Gasket	PTFE	PTFE
7	锁紧螺母 Locking nut	A2-70	A2-70

### 安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 608

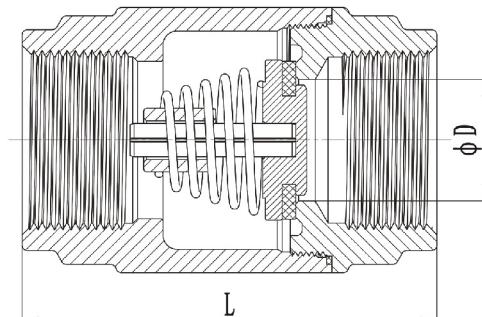
公称压力 Rating: 200PSI

螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

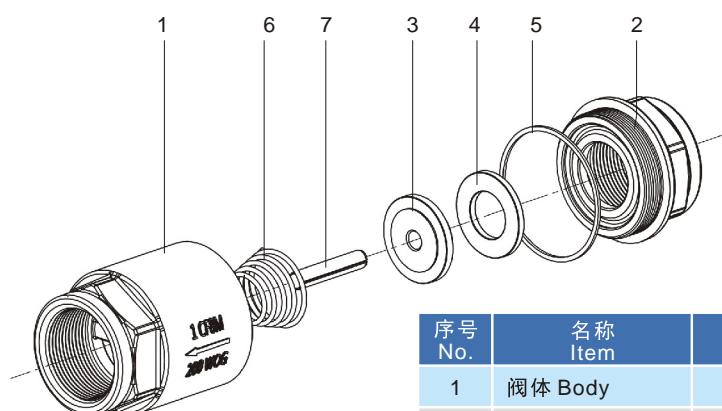
ISO2228-1,JIS B 0203,ISO7-1

试验标准 Inspection: API 598, En12266

SIZE	D	L
1/4"	10.5	54
3/8"	11	54
1/2"	13	57
3/4"	17	64
1"	22	75
1 1/4"	32	82
1 1/2"	38	93
2"	50	100
2 1/2"	63	120
3"	74	140
4"	94	158



### 组装图 Part Drawing



序号 No.	名称 Item	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cap	CF8M	CF8	WCB
3	阀瓣 Disc	F316	F304	F304
4	阀瓣垫圈 Gasket	PTFE/VITON	PTFE/VITON	PTFE/VITON
5	密封垫圈 Gasket	PTFE	PTFE	PTFE
6	弹簧 Spring	F316	F304	F304
7	弹性圆柱销 Pin	304	304	304

安装尺寸 Dimensions

标准规范 Standard specification

设计标准 Design: API 602

公称压力 Rating: 200PSI

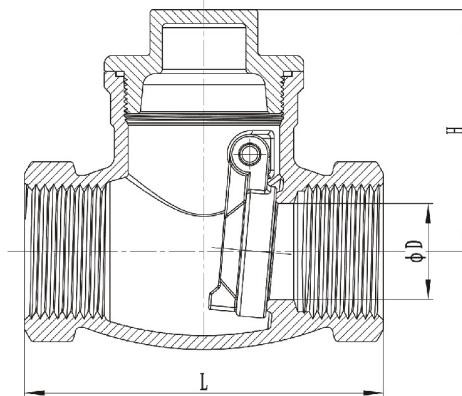
螺纹标准 Thread: ASME B 1.20.1, BS21,DIN2999/259,

ISO228-1,JIS B 0203,ISO7-1

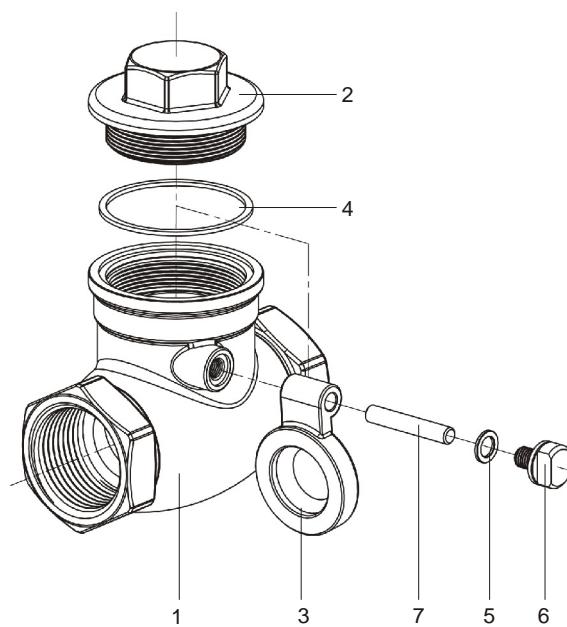
试验标准 Inspection: API 598, En12266



SIZE	D	L	H
1/2"	14	65	41
3/4"	19	80	53
1"	24	90	61
1 1/4"	31	105	60
1 1/2"	37	120	75
2"	47	140	78
2 1/2"	62	156	90
3"	75	188	100



组装图 Part Drawing



序号 No.	名称 Item	材料 Material	
1	阀体 Body	CF8M	CF8
2	阀盖 Cap	F316	F304
3	阀瓣 Disc	F316	F304
4	密封垫圈 Cap gasket	PTFE	PTFE
5	密封垫 Gasket	PTFE	PTFE
6	螺栓 Bolt	304	304
7	圆柱销 Pin	304	304