

球阀型号编制方法及力矩值参考表 Model Coding System Of Ball Valve and Moment List

300	Q	9	4	7	F	64	C
公称通径 Nominal diameter	球阀代号 Code of ball valve	驱动方式代号 Code of driving	连接形式代号 Code of connection type	结构形式代号 Code of structure type	密封面材料代号 Code of sealing face material	公称压力值 Code of nominal pressure	阀体材料代号 Code of body material
Inch DN	Q-球阀 Ball valve	手动（省略） Manual operation (Omission)	1.内螺纹 Female screw	0-半球直通 1-浮动直通式 Float through way type 4-浮动L形三通 Float L-pattern three way 5-浮动T形三通 Float-T-pattern three way 6-固定四通 Fixed fore way 7-固定直通式 Fixed through way type 8-固定三通式 Fixed three way	F-氟塑料 Fluorocarbon	1.用MPa的10倍 值表示 It is expressed with a value of ten times of real pressure in Mpa 2.用磅级表示 It is expressed with Class standard values 3.用K级表示 Unit in Kclass according to JIS	C-碳钢 Carbonsteel
	GQ-轨道球阀 Track ball valve	3-蜗轮转动 Worm-gear actuator	2.外螺纹 Male screw		H-合金钢 Alloy steel		铸钢：WCB
	WQ-无摩擦高温高压 硬密封球阀 Hard sealed ball valve, non-friction, high-temperature and high-pressure	6-气动 Pneumatic actuator	4-法兰 Flange RF-凸面 Raised face flange		Y-硬质合金 Hard alloy		锻钢：A105
	PQ-偏心球阀 Eccentric ball valve	9-电动 Electric actuator	RJ-密封环法兰 Seal ring flange		E-增强聚四氟乙烯 Reinforced PTFE Reintorced		P:1Cr18Ni9Ti
	Qv-V型球阀 V type ball valve	7-液动 Hydraulic actuator	FM-凹凸面法兰 Male-female flange		D-中温碳纤维 Mid-temperature carbon fibrred		R:1Cr18Ni12Mo2Ti
	BQ-夹套保温球阀 Muff heat preseration ball valve	8-气-液联动 Pneumatic- hydraulic actuator	TG-榫槽面法兰 Tongue and grooce flange		N-聚酰胺（尼龙） Polyesteramide (nylon)		P8:CF8(304)
	MQ-整体式球阀 One-piece body ball valve	8E-气液联动 带紧急切断 Pneumatic- hydraulic with emergent shut-off	6-焊接连接 Weld connection		PPL-对位聚苯 Polyphenylester		P3:CF3(304L)
	UQ-上装式球阀 Top-entry ball valve		BW-对焊连接 Butt weld		M-耐磨碳纤维 Anti-abrasion carbor fibre		R8:CF8M(316)
			SW-承插焊连接 Socket weld joint		G-高温耐磨碳纤维 High temperature anti-abrasion carbon fibre		R3:CF3M(316L)
			7-对夹连接 Wafer connection		S-柔性石墨 Soft graphite		I:1Cr5Mo
			8-卡箍 Clip				L:LCB
			9-卡套 Hoop				C6:WC6
							C9:WC9
							S:抗硫材料
							Anti-sulfuric materials

球阀力矩值参考表 Ball Valve Moment List

公称通径 Nominaldiameter	压力等级 Pressure Grade	阀门力矩 (N.M) Valve Moment			
		150Lb, 1.6MPa	300Lb, 2.5MPa, 4.0MPa	400Lb, 6.3MPa	600Lb, 10.0MPa
2"(DN50)		20	30	70	200
3"(DN80)		80	150	250	450
4"(DN100)		150	300	400	600
5"(DN125)		200	500	650	930
6"(DN150)		400	700	860	1150
8"(DN200)		640	940	1300	1750
10"(DN250)		1100	1600	2300	3000
12"(DN300)		1750	2500	3800	4750
14"(DN350)		2600	3600	5500	6900
16"(DN400)		3900	5250	7500	9700
18"(DN450)		6200	7150	10000	12600
20"(DN500)		7500	8800	12000	15500
24"(DN600)		10500	13200	18500	24500
28"(DN700)		14500	19300	29500	36000
32"(DN800)		21000	26900	39000	60000
36"(DN900)		28000	40000	51000	75000
40"(DN1000)		35000	45000	71000	105000

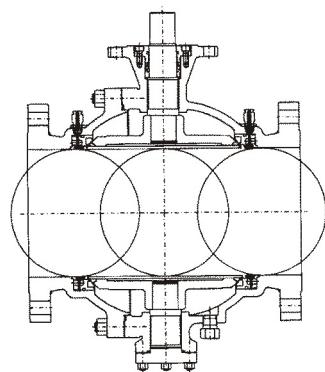
注：本力矩只是作为用户选型时参考，选用驱动装置力矩值应为操作力矩的1.1-1.3倍。

固定球阀结构与特点 Constructions & Features Of Fixed Ball Valve

■ 结构、功能、特点 Construction . Functio . Features

■ 全通径设计

按照客户的要求可以提供全通径或缩径阀门，全通径阀门具有与管子内径完全一致的通道直径，减少涡流便于清扫管道。

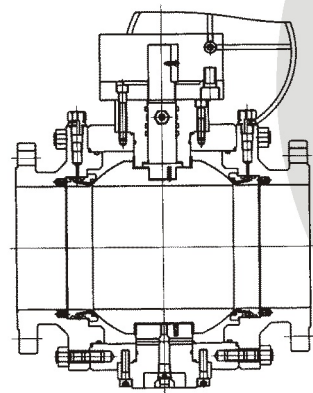


■ Full bore design

According to the customer's demand, the full bore or the reduced bore can be provided. The full-bore valve has the diameter of channel completely equal to the inner diameter of pipe to facilitate to clean the pipe.

■ 阻塞与排泄功能

固定球阀采用弹簧预紧，阀座密封为双活塞，利用活塞原理密封，上下游侧的阀座使流体阻断，阀体中腔装放空阀排空，阀底装有排污阀排污，便于管道清洗。

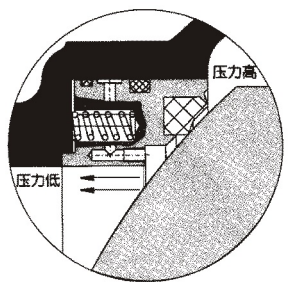


■ Block & Bleed Function

Fixed ball valve adopts spring to pretighten. And seat seal is double pistons. It adopts piston principle to seal. Upstream and downstream seats make fluid stop. And the emptying valve installed on the middle cavity is used to empty and the blowdown valve installed at the bottom of valve to clear off dirt to facilitate to clean the pipe.

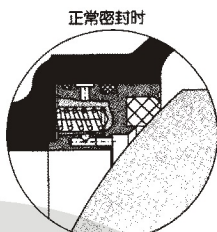
■ 自动泄压

阀门中腔停滞的介质由于温度升高而出现异常升压时，阀座出口端具有自动泄压功能，同时根据需要，阀体上可装安全阀，保证阀体具有自动泄压功能，确保管道安全。

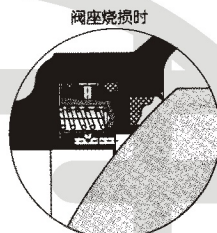


■ Automatic relief

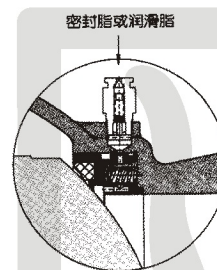
When the medium in the middle cavity unusually raises pressure for the rising of temperature, outlet of seat has automatic relief function. At the same time, according to the demands, the safety valve can be installed on the body to ensure the automatic relief function of body, so that the pipe can be safe.



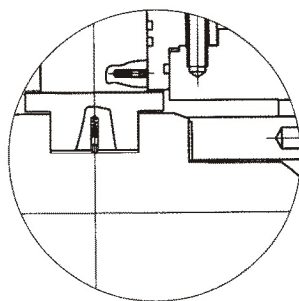
正常密封时



阀座烧损时



密封脂或润滑油



■ 防火结构

万一发生火灾或异常升温使PTFE软化烧损时，阀座支承圈防火密封面可以和球体接触，起到密封作用且符合AP1607和AP16FA规范要求。

■ Fire-proof structure

When the fire happens or the temperature unusually rises to make PTFE soften to damage. The fireproof seal surface of seat supported circle can contact with ball to have seal function. This conforms to the requirements of AP1607 and AP16FA.

■ 密封的紧急救护

由于介质中的杂质或火灾造成阀座密封意外失败，注脂阀提供与注脂枪的快速连接，方便快捷地将密封脂注入到阀座密封部位，缓解泄漏。

■ Urgent help o seal

Due to the dirt or fire make unusual failure of seat seal. Sealant-injection valve provide the quick connection with sealant-injection gun. And it is convenient to inject seal grease into the seal part of seat to reduce leakage.

■ 防静电设计

采用铬镍不锈钢的弹簧和小球使球体、阀杆和阀体之间相互导电，从而把静电完全释放。

■ Anti-static design

Chrome and nickel stainless steel spring and small ball are adopted to make electroconductive among ball, stem and body to completely release static.

固定球阀结构与特点 Constructions & Features Of Fixed Ball Valve

■ 操作的可靠性

大口径球阀的相对连动部（阀座和阀杆轴承）由于采用了低摩擦系数小的特氟龙，因而操作扭矩小，此外，由于密封润滑脂的长期产润滑，使得操作更加灵活。

■ Operational Reliability

For large ball valve, the TFE is adopted for seat and stem bearing, the relative movement at bearing portion requires less operational torque force because of less friction of the TFE, in addition, the long time lubrication of the sealants makes the operation more effective.

■ 阀座结构

阀座的结构有两种：单密封和双密封结构，一般具有自动泄压机能的是单密封，双密封则由阀体上附加的安全泄压。

■ Seat Design

There are two kinds of seat design, single seal and double seal. The former normally has self relief function, the latter relieves the pressure through the safety valve on the body.

■ 阀杆加长

填杆加长适于埋地及低温用，加长尺寸根据需要确定，操作方式有手动、气动、电动、气液连动等。

■ Extended Stem

The extended stem is designed for underground and low temperature service. The length of stem depends on the service requirement. The operation methods include manual pneumatic-hydraulic etc.

■ 对外力的安全性

阀体的壁厚根据高压容器的安全法规进行设计，对承受外力抗弯曲等符合AP16D规定，强度足够。

■ Safety On External Force

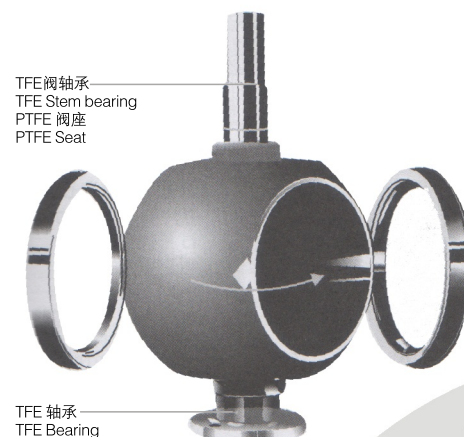
The body thickness is designed in conformance to the requirements of high-pressure vessel code and has enough strength as required by AP16D to prevent buckling induced by external.

■ 阀杆压盖部密封

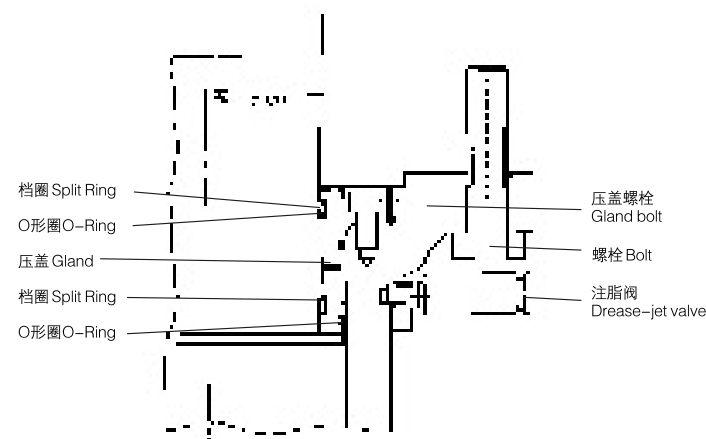
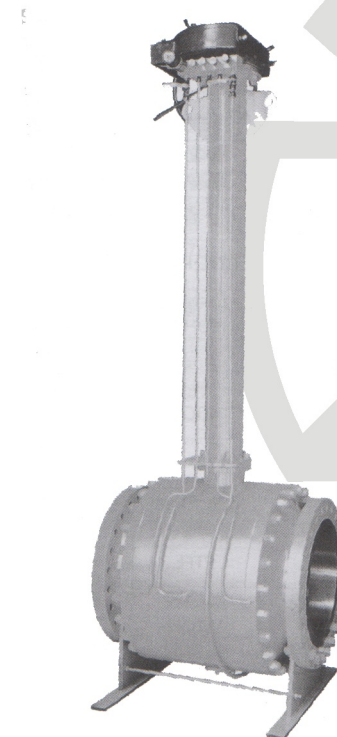
填料压盖部密封如图年示采用了四个O型圈和密封注脂装置。

■ Sealing Of Stem Gland

As shown in figure, the sealing of gland is accomplished by arrangement of four O-rings and a sealant injection device.



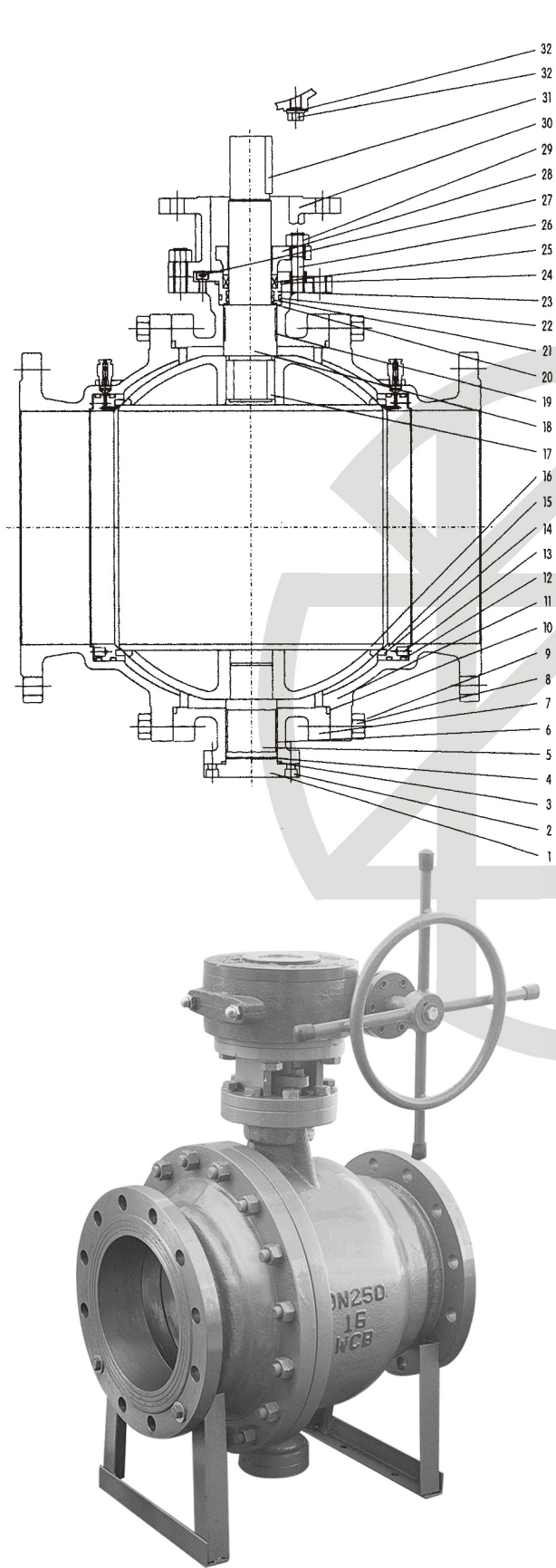
TFE 轴承
TFE Bearing



档圈 Split Ring
O形圈 O-Ring
压盖 Gland
档圈 Split Ring
O形圈 O-Ring

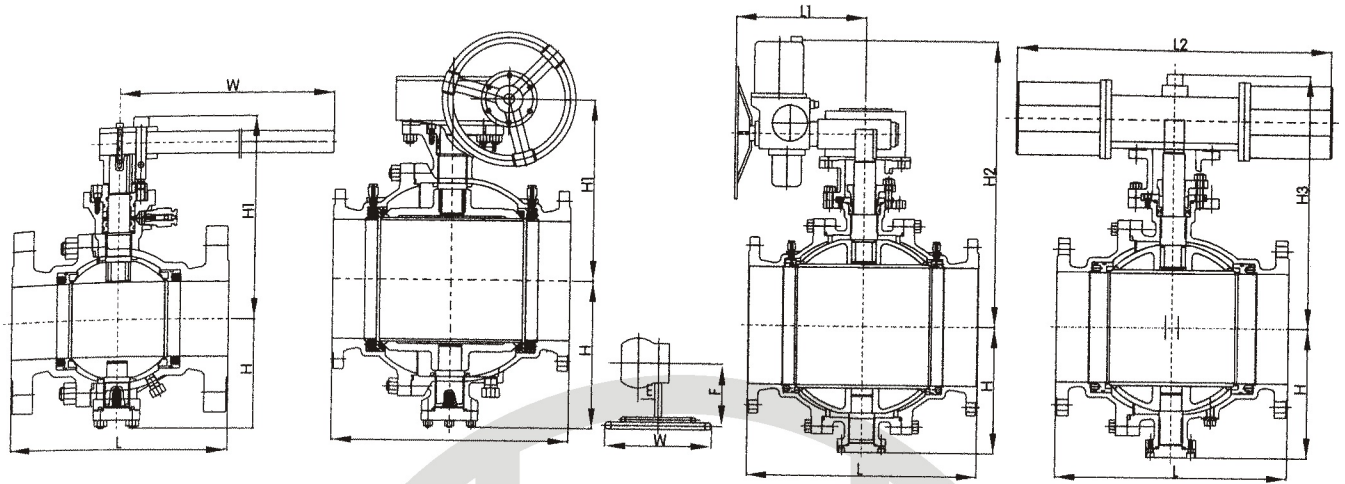
压盖螺栓
Gland bolt
螺栓 Bolt
注脂阀
Grease-jet valve

固定球阀材质 Fixed Ball Valve Material



序号 NO	零件名称 Parts	材料标准 Material standard	材料牌号 Standard			
			碳钢 Carbon steel		不锈钢 Stainless steel	
			GB	ASTM	GB	ASTM
01	底盖 Lower cover		25	A105	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L
02	底盖螺钉 Lower cover bolt		35CrMoA	A193-B7	1Cr17Ni2	A193-B8M
03	垫圈 Gasket		氟橡胶: PTFE;金属夹石墨 VITON;PTFE;metel backed graphite			
04	止推轴承 Thrust bearing		金属夹PTFE Metel backed PTFE			
05	下阀杆 lover stem		2Cr13	A276-410	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L
06	下阀杆轴承 lover stem bearing		金属夹PTFE Metel backed PTFE			
07	阀体 Body		WCB	A216-WCB	ZG1Cr18Ni9Ti ZG1Cr18Ni12Mo2Ti	CF8/CF8M/ CF3/CF3M
08	螺母 Nut		45	A194-2H	0Cr18Ni	A194-8M
09	双头螺柱 Stud		35CrMoA	A193-B7	1Cr17Ni2	A193-B8M
10	垫圈 Gasket		VITON;PTFE 金属夹石墨			
11	阀盖 Body cap		WCB	A216-WCB	ZG1Cr18Ni9Ti ZG1Cr18Ni12Mo2Ti	CF8/CF8M/ CF3/CF3M
12	阀座O形圈 Seat O'ring		氟橡胶 VITON	氟橡胶 VITON	氟橡胶 VITON	氟橡胶 VITON
13	阀座弹簧 Seat spring		17-7PH	17-7PH	17-7PH	17-7PH
14	阀座 Seat		PTFE;PPL	PTFE;PPL	PTFE;PPL	PTFE;PPL
15	阀座支承圈 Seat retainerr		25镀铬 25HRC	A105镀铬 A105HRC	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L
16	球体 Ball		1Cr18Ni9Ti	304	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	304/F316/ 304L/F316L
17	球体键 Ball key		40Cr	40Cr	1Cr17Ni2	1Cr17Ni2
18	上阀杆 Stem		2Cr13	A276-410	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L
19	上阀杆轴承 Stem bearing		金属夹PTFE Metel backed PTFE	金属夹PTFE Metel backed PTFE	金属夹PTFE Metel backed PTFE	金属夹PTFE Metel backed PTFE
20	止推轴承 Thrust bearing		PTFE	PTFE	PTFE	PTFE
21	阀杆O形圈 Stem O'ring		氟橡胶 VITON	氟橡胶 VITON	氟橡胶 VITON	氟橡胶 VITON
22	填料函O形圈 Packing washer O'ring		氟橡胶 VITON	氟橡胶 VITON	氟橡胶 VITON	氟橡胶 VITON
23	阀杆填料函 Packing washer		25镀铬	A105镀铬	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L
24	垫圈 Gasket		氟橡胶: PTFE;金属夹石墨 VITON;PTFE;metel backed graphite			
25	阀杆填料 Stem pscking		石墨 GRAPHITE			
26	双头螺柱 Stud		35CrMoA	A193-B7	1Cr17Ni2	A193-B8M
27	螺钉 Bolt		35CrMoA	A193-B7	1Cr17Ni2	A193-B8M
28	填料压盖 Stuffing gland		WCB	A216-WCB	ZG1Cr18Ni9Ti ZG1Cr18Ni12Mo2Ti	CF8/CF8M/ CF3/CF3M
29	螺母 Nut		45	A194-2H	0Cr18Ni	A194-8M
30	支架 Yoke		WCB	WCB	WCB	WCB
31	键 Key		40Cr	40Cr	1Cr17Ni2	1Cr17Ni2
32	垫圈 Gasket		氟橡胶: PTFE;金属夹石墨 VITON;PTFE;metel backed graphite			
33	排污塞 Drain plug		2Cr13	A276-410	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L

Q347F美标固定球阀 Fixed Ball Valve



应用规范:

- 1、设计、制造按API 6D
- 2、结构长度按ANSI B16.10
- 3、连接法兰: ANSI B16.5 MSS-SP44
- 4、阀门检查和试验按API STD.598

NOTE

- 1.Design Manafacure According to API 6D
- 2.Face to Face According to ANSI B16.10
- 3.End Flange Dimension According to ANSI B16.5 MSS-SP44
- 4.Valve Check and Test According to API STD.598

Class 150 主要连接尺寸及重量 Main Connection Dimensions And Weights

单位: mm

公称通径	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"
d1	51	64	76	102	127	152	203	254	305	337	387	438	489	591	686	781	876	978
L	BW	178	191	203	229	356	394	457	533	610	686	762	864	914	1067	1245	1372	1524
	RF	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1780
H		102	114	127	152	184	219	273	360	395	430	470	550	580	700	800	950	1200
手动 Manual operated	H1	107	125	152	178	300	330	398	495	580	625	670	698	840	1050	1100	1150	1374
	E	-	-	-	-	-	-	116	116	171	171	257	257	257	150	83	83	123
	F	-	-	-	-	-	-	350	350	420	420	400	400	400	410	650	650	735
	W	230	400	400	650	1050	1050	600	600	800	800	800	800	800	800	800	800	800
电动 Electromotor operated	Wt(kg)	12	16	22	35	58	74	205	322	460	576	864	1280	1600	3540	4500	5940	9320
	H2	-	-	-	-	-	554	600	652	760	770	830	-	940	1020	1115	-	-
气动 Pneumatic operated	L1	-	-	-	-	-	235	235	235	259	400	400	-	410	410	410	-	-
	H3	274	379	389	479	552	666	736	926	1059	1127	1393	1468	1538	1370	1450	-	-
	L2	270	405	405	576	576	776	776	776	1060	1060	1360	1360	1360	2840	2840	-	-

Class 300 主要连接尺寸及重量 Main Connection Dimensions And Weights

单位: mm

公称通径	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"
d1	51	64	76	102	127	152	203	254	305	337	387	438	489	591	686	781	876	978
L	BW	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346	1524	1880
	RF	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1880
H		102	114	127	152	184	219	273	36	395	430	470	550	580	700	800	950	1200
手动 Manual operated	H1	107	125	152	178	300	330	398	495	580	625	670	698	840	1050	1100	1150	1374
	E	-	-	-	-	-	-	116	116	171	171	257	257	257	150	83	83	123
	F	-	-	-	-	-	-	350	350	420	420	400	400	400	410	650	650	735
	W	230	400	400	650	1050	1050	600	600	800	800	800	800	800	800	800	800	800
电动 Electromotor operated	Wt(kg)	15	24	30	55	87	118	255	370	533	640	1030	1542	2100	4200	5300	7860	10300
	H2	-	-	-	-	-	235	235	400	400	410	410	-	420	690	690	-	-
气动 Pneumatic operated	L1	-	-	-	-	-	74	350	350	420	420	400	-	400	410	650	-	-
	H3	340	379	452	479	646	666	814	1002	1059	1150	1205	1250	1295	1390	1470	-	-
	L2	405	405	574	574	756	756	1060	1060	1060	1360	1360	2840	2840	3300	3300	-	-

Q347F美标固定球阀 Fixed Ball Valve

Class 400 主要连接尺寸及重量 Main Connection Dimensions And Weights 单位: mm

公称通径		2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	20"	24"	28"
d1		51	64	76	102	152	203	254	305	337	387	489	591	686
L	RF	292	330	356	406	495	597	673	762	826	902	1054	1232	1397
	BW	295	333	359	410	498	600	676	765	829	905	1060	1241	1410
H		114	124	133	159	250	294	395	445	500	530	660	800	900
手动 Manual operated	H1	108	155	197	235	300	374	445	512	550	615	810	1010	1180
	E	116	116	116	116	116	171	171	257	257	257	150	83	123
	F	350	350	350	350	350	420	420	400	400	400	410	650	735
	W	600	600	600	600	600	800	800	800	800	800	800	800	800
	Wt(kg)	23	35	49	91	192	355	640	880	1100	1540	2800	5300	5700
电动 Electromotor operated	H2	—	—	—	—	554	574	731	771	867	805	979	1085	1148
	L1	—	—	—	—	235	235	400	400	410	410	420	690	690
气动 Pneumatic operated	H3	340	—	—	576	666	895	1002	1059	1160	1250	1320	1470	1520
	L2	405	—	—	479	756	1060	1060	1360	1360	2840	2840	3300	3300

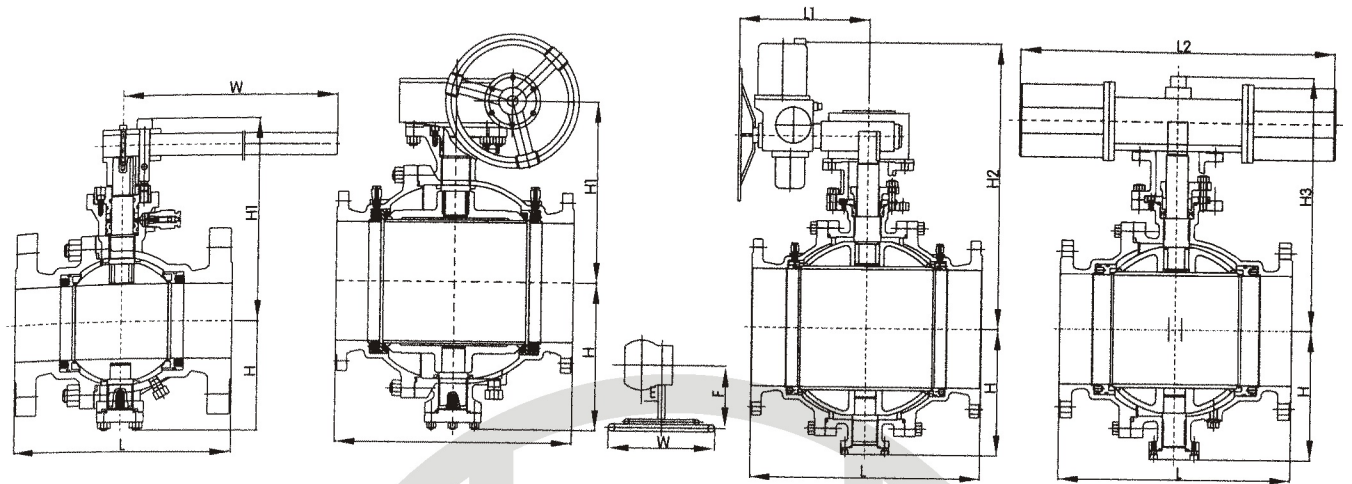
Class 600 主要连接尺寸及重量 Main Connection Dimensions And Weights 单位: mm

公称通径		2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	20"	24"	28"
d1		51	64	76	102	152	203	254	305	337	387	489	591	686
L	RF	292	330	356	432	559	660	787	838	889	991	1194	1397	1549
	BW	295	333	359	435	562	664	791	841	892	994	1200	1407	1562
H		114	124	133	159	250	294	395	445	500	530	660	800	900
手动 Manual operated	H1	108	155	197	235	300	374	445	512	550	615	810	1010	1180
	E	116	116	116	116	116	171	171	257	257	257	150	83	123
	F	350	350	350	350	350	420	420	400	400	400	410	650	735
	W	600	600	600	600	600	800	800	800	800	800	800	800	800
	Wt(kg)	35	38	55	102	232	390	710	960	1700	1970	3250	5800	6700
电动 Electromotor operated	H2	—	—	—	—	569	658	694	765	825	917	998	1098	1185
	L1	—	—	—	—	235	259	400	410	410	420	690	690	690
气动 Pneumatic operated	H3	340	—	—	479	666	895	1002	1059	1160	1250	1320	1470	1520
	L2	405	—	—	576	756	1060	1060	1360	1360	2840	2840	3300	3300

Class 900 主要连接尺寸及重量 Main Connection Dimensions And Weights 单位: mm

公称通径		2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
d1		51	64	76	102	152	203	254	305	324	375	426	473	572
L	RF	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549
	BW	371	422	384	460	613	740	841	968	1038	1140	1232	1334	1568
H		217	241	259	297	360	322	420	470	510	600	700	720	810
手动 Manual operated	H1	126	158	191	216	270	394	502	572	675	762	866	894	956
	E	116	116	116	116	171	171	257	257	150	150	180	180	220
	F	350	350	350	350	420	420	400	400	410	410	650	650	735
	W	600	600	600	600	800	800	800	800	800	800	800	800	800
	Wt(kg)	50	60	80	125	270	—	—	—	—	—	—	—	—

Q347F国标固定球阀 Fixed Ball Valve



- 应用规范:
- NOTE
- 1、设计、制造按GB12237-89

2、结构长度按GB12221-89

3、连接法兰: JB79-94

4、阀门检查和试验按GB13927-89
- 1.Design Manafacure According to GB12237-89

2.Face to Face According to GB12221-89

3.End Flange Dimension According to JB79-94

4.Valve Check and Test According to GB13927-89

PN1.6MPa 主要连接尺寸及重量 Main Connection Dimensions And Weights 单位: mm

公称通径		25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
d1		25	32	40	50	65	80	100	125	150	200	250	300	337	387	438	489	591	686
L		165	180	190	216	241	283	305	356	394	457	533	610	686	762	864	914	1067	1245
H		50	55	80	102	114	127	152	184	219	273	360	395	430	470	550	580	700	800
手动 Manual operated	H1	75	85	95	107	125	152	178	300	330	398	495	580	625	670	698	840	1050	1100
	E	—	—	—	—	—	—	—	—	—	116	116	171	171	257	257	257	150	83
	F	—	—	—	—	—	—	—	—	—	350	350	400	420	400	420	400	410	650
	W	160	160	230	230	400	400	650	1050	1050	600	600	800	800	800	800	800	800	800
	Wt(kg)	4.5	5.7	7.0	12	16	22	35	58	74	205	322	460	576	864	1280	1600	3540	4500
电动 Electromotor operated	H2	—	—	—	—	—	—	—	—	554	600	652	760	770	830	—	940	1020	1115
	L1	—	—	—	—	—	—	—	—	235	235	235	259	400	400	—	410	410	410
气动 Pneumatic operated	H3	215	240	264	274	379	389	479	552	666	736	926	1059	1127	1393	1468	1538	1370	1450
	L2	200	270	270	270	405	405	576	576	776	776	776	1060	1060	1360	1360	1360	2840	2840

PN2.5MPa 主要连接尺寸及重量 Main Connection Dimensions And Weights 单位: mm

公称通径		25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
d1		25	32	40	50	65	80	100	125	150	200	250	300	337	387	438	489	591	686
L		165	180	190	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346
H		50	55	80	102	114	127	152	184	219	273	360	395	430	470	550	580	700	800
手动 Manual operated	H1	75	85	95	107	125	152	178	300	330	398	495	580	625	670	698	840	1050	1100
	E	—	—	—	—	—	—	—	—	—	116	116	171	171	257	257	257	150	83
	F	—	—	—	—	—	—	—	—	—	350	350	420	420	400	400	400	410	650
	W	160	160	230	230	400	400	650	1050	1050	600	600	800	800	800	800	800	800	800
	Wt(kg)	4.5	5.7	7.0	15	24	30	35	87	118	255	370	533	640	1030	1542	2100	4200	5300
电动 Electromotor operated	H2	—	—	—	—	—	—	—	—	235	235	400	400	410	410	—	420	690	690
	L1	—	—	—	—	—	—	—	—	74	350	350	420	420	400	—	400	410	650
气动 Pneumatic operated	H3	215	240	264	340	379	452	479	646	666	814	1002	1059	1150	1205	1250	1295	1390	1470
	L2	200	270	270	405	405	574	574	756	756	1060	1060	1060	1360	1360	2840	2840	3300	3300

Q347F国标固定球阀 Fixed Ball Valve

PN4.0MPa 主要连接尺寸及重量 Main Connection Dimensions And Weights

单位: mm

公称通径		25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
d1		25	32	40	50	65	80	100	125	150	200	250	300	337	387	438	489	591	686
L		165	180	190	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346
H		50	55	80	102	114	127	152	184	219	273	360	395	430	470	550	580	700	800
手动 Manual operated	H1	75	85	95	107	125	152	178	300	330	398	495	580	625	670	698	840	1050	1100
	E	—	—	—	—	—	—	—	—	—	116	116	171	171	257	257	257	150	83
	F	—	—	—	—	—	—	—	—	—	350	350	420	420	400	400	400	410	650
	W	160	160	230	230	400	400	650	1050	1050	600	600	800	800	800	800	800	800	800
	Wt(kg)	9	13	16	19	24	30	35	87	118	255	370	533	640	1030	1542	2100	4200	5300
电动 Electromotor operated	H2	—	—	—	—	—	—	—	—	235	235	400	400	410	410	—	420	690	690
	L1	—	—	—	—	—	—	—	—	74	350	350	420	420	400	—	400	410	650
气动 Pneumatic operated	H3	215	240	264	340	379	452	479	646	666	814	1002	1059	1150	1205	1250	1295	1390	1470
	L2	200	270	270	405	405	574	574	756	756	1060	1060	1060	1360	1360	2840	2840	3300	3300

PN6.4MPa 主要连接尺寸及重量 Main Connection Dimensions And Weights

单位: mm

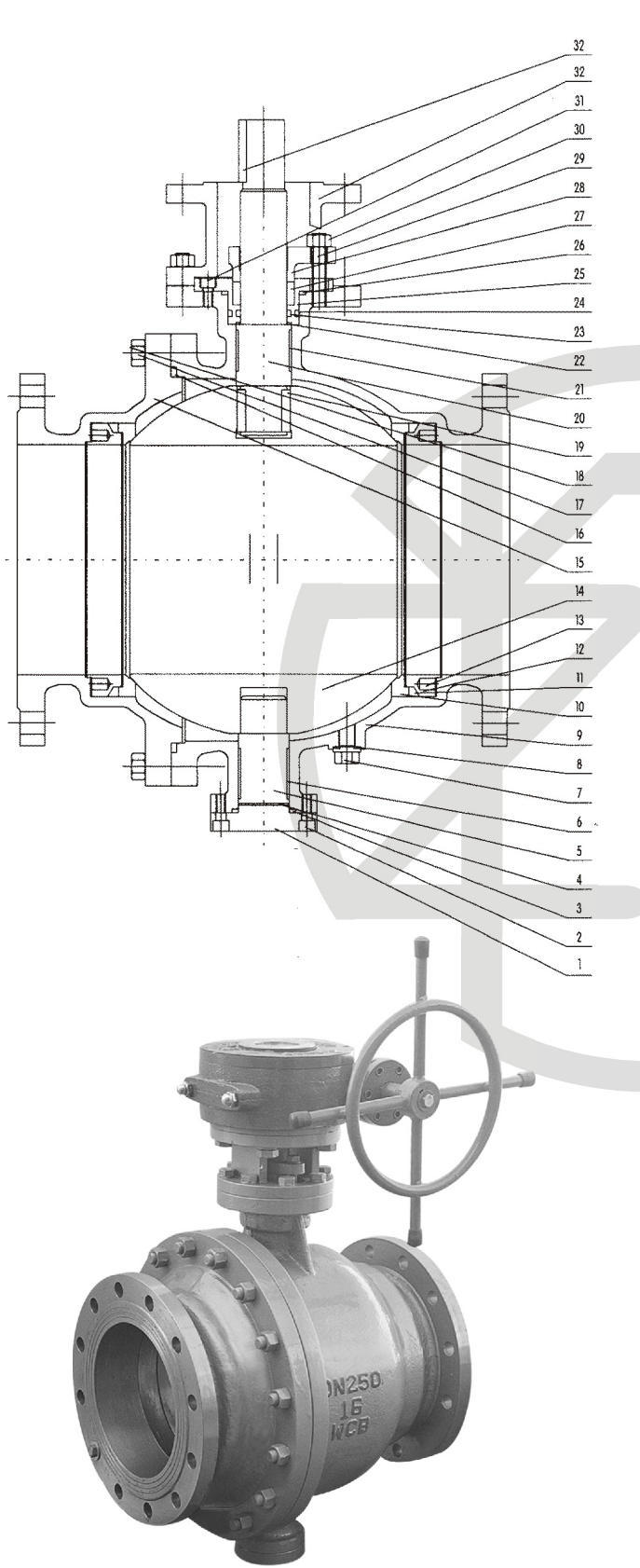
公称通径		50	65	80	100	150	200	250	300	350	400	500	600	700
d1		50	65	80	100	150	200	250	300	337	387	489	591	686
L		292	330	356	406	495	597	673	762	826	902	1054	1232	1397
H		114	124	133	159	250	294	395	445	500	530	660	800	900
手动 Manual operated	H1	108	155	197	235	300	374	445	512	550	615	810	1010	1180
	E	116	116	116	116	116	171	171	257	257	257	150	83	123
	F	350	350	350	350	350	420	420	400	400	400	410	650	735
	W	600	600	600	600	600	800	800	800	800	800	800	800	800
	Wt(kg)	23	35	49	91	192	355	640	880	1100	1540	2800	5300	5700
电动 Electromotor operated	H2	—	—	—	—	554	574	731	771	867	805	979	1085	1148
	L1	—	—	—	—	235	235	400	400	410	410	420	690	690
气动 Pneumatic operated	H3	340	—	—	479	666	895	1002	1059	1160	1250	1320	1470	1520
	L2	405	—	—	576	756	1060	1060	1360	1360	2840	2840	3300	3300

PN1.0MPa 主要连接尺寸及重量 Main Connection Dimensions And Weights

单位: mm

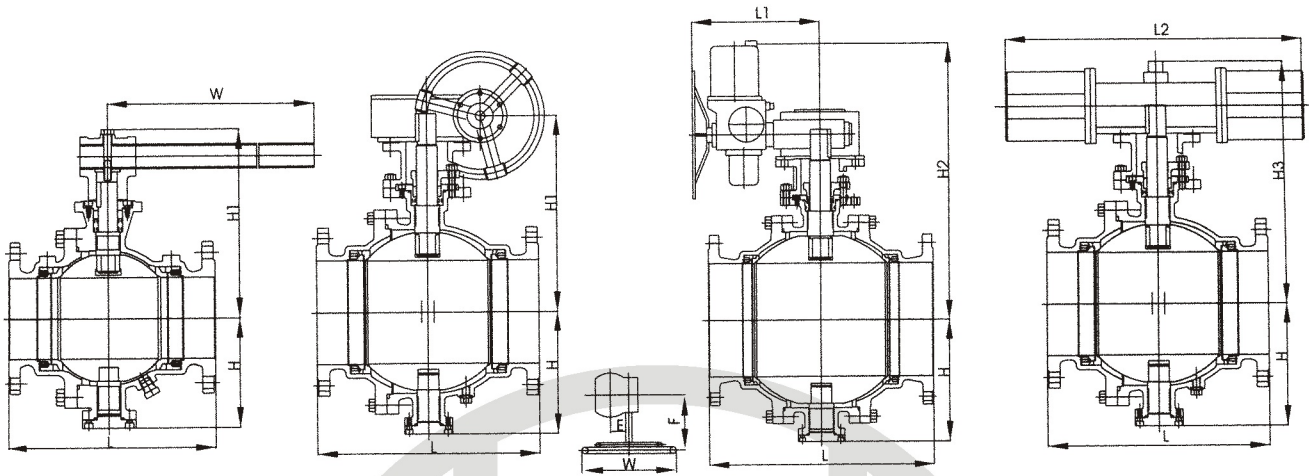
公称通径		50	65	80	100	150	200	250	300	350	400	500	600	700
d1		50	65	80	100	150	200	250	300	337	387	489	591	686
L		292	330	356	432	559	660	787	838	889	991	1194	1397	1549
H		114	124	133	159	250	294	395	445	500	530	660	800	900
手动 Manual operated	H1	108	155	197	235	300	374	445	512	550	615	810	1010	1180
	E	116	116	116	116	116	171	171	257	257	257	150	83	123
	F	350	350	350	350	350	420	420	400	400	400	410	650	735
	W	600	600	600	600	600	800	800	800	800	800	800	800	800
	Wt(kg)	35	38	55	102	232	390	710	960	1700	1970	3250	5800	6700
电动 Electromotor operated	H2	—	—	—	—	569	658	694	765	825	917	998	1098	1185
	L1	—	—	—	—	235	259	400	410	410	420	690	690	690
气动 Pneumatic operated	H3	340	—	—	479	666	895	1002	1059	1160	1250	1320	1470	1520
	L2	405	—	—	576	756	1060	1060	1360	1360	2840	2840	3300	3300

硬密封固定球阀材质 Material Seat Fixed Ball Valve



序号 NO	零件名称 Parts	材料标准 Material standard	材料牌号 Standard			
			碳钢 Carbon steel		不锈钢 Stainless steel	
			GB	ASTM	GB	ASTM
01	底盖 Lower cover		25	A105	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L
02	底盖螺钉 Lower cover bolt		35CrMoA	A193-B7	1Cr17Ni2	A193-B8M
03	垫圈 Gasket		金属夹石墨 Metel backed graphite			
04	止推轴承 Thrust bearing		金属夹PTFE Metel backed PTFE			
05	下阀杆 lower stem		2Cr13	A276-410	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L
06	下阀杆轴承 lower stem bearing		金属夹PTFE Metel backed PTFE			
07	垫圈 Gasket		金属夹石墨 Metel backed graphite			
08	排污塞 Drain plug		2Cr13	A276-410	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L
09	阀体 Body		WCB	A216-WCB	ZG1Cr18Ni9Ti ZG1Cr18Ni12Mo2Ti	CF8/CF8M/ CF3/CF3M
10	阀座 Seat		2Cr13 渗氮	A276-410 渗氮	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti 渗氮	F304/F316/ F304L/F316L 渗氮
11	阀座密封圈 Seal		石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite
12	阀座支承圈 Seat retainerr		2Cr13	A276-40	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L
13	阀座弹簧 Seat spring		17-7PH	17-7PH	17-7PH	17-7PH
14	球体 Ball		2Cr13 渗氮	A276-410 渗氮	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti 渗氮	F304/F316/ F304L/F316L 渗氮
15	阀盖 Body cap		WCB	A216-WCB	ZG1Cr18Ni9Ti ZG1Cr18Ni12Mo2Ti	CF8/CF8M/ CF3/CF3M
16	垫圈 Gasket		金属夹石墨 Metel backed graphite			
17	螺母 Nut		45	A194-2H	0Cr18Ni9	A194-B8M
18	双头螺柱 Stud		35CrMoA	A193-B7	1Cr17Ni2	A193-B8M
19	球体键 Ball key		40Cr	40Cr	1Cr17Ni2	1Cr17Ni2
20	上阀杆 Stem		2Cr13	A276-410	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L
21	阀杆O形圈 Stem O'ring		氟橡胶 VITON	氟橡胶 VITON	氟橡胶 VITON	氟橡胶 VITON
22	填料函O形圈 Packingwasher O'ring		氟橡胶 VITON	氟橡胶 VITON	氟橡胶 VITON	氟橡胶 VITON
23	上阀杆轴承 Stem bearing		金属夹PTFE Metel backed PTFE	金属夹PTFE Metel backed PTFE	金属夹PTFE Metel backed PTFE	金属夹PTFE Metel backed PTFE
24	止推轴承 Thrust bearing		石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite
25	阀杆填料函 Packing washer		25镀铬	A105镀铬	1Cr18Ni9Ti 1Cr18Ni12Mo2Ti	F304/F316/ F304L/F316L
26	阀杆填料 Stem pscking		石墨 GRAPHITE			
27	填料压盖 Stuffing gland		WCB	A216-WCB	ZG1Cr18Ni9Ti ZG1Cr18Ni12Mo2Ti	CF8/CF8M/ CF3/CF3M
28	螺母 Nut		45	A194-2H	0Cr18Ni	A194-B8M
29	双头螺柱 Stud		35CrMoA	A193-B7	1Cr17Ni2	A193-B8M
30	螺钉 Bolt		35CrMoA	A193-B7	1Cr17Ni2	A193-B8M
31	支架 Yoke		WCB	WCB	WCB	WCB
32	键 Key		40Cr	40Cr	1Cr17Ni2	1Cr17Ni2

Q347H/Y硬密封固定球阀 Material Seat Fixed Ball Valve



应用规范:

- 1、设计、制造按GB12237-89
- 2、结构长度按GB12221-89
- 3、连接法兰: JB79-94
- 4、阀门检查和试验按GB13927-89

NOTE

- 1.Design Manafacure According to GB12237-89
- 2.Face to Face According to GB12221-89
- 3.End Flange Dimension According to JB79-94
- 4.Valve Check and Test According to GB13927-89

PN1.6MPa 主要连接尺寸及重量 Main Connection Dimensions And Weights

单位: mm

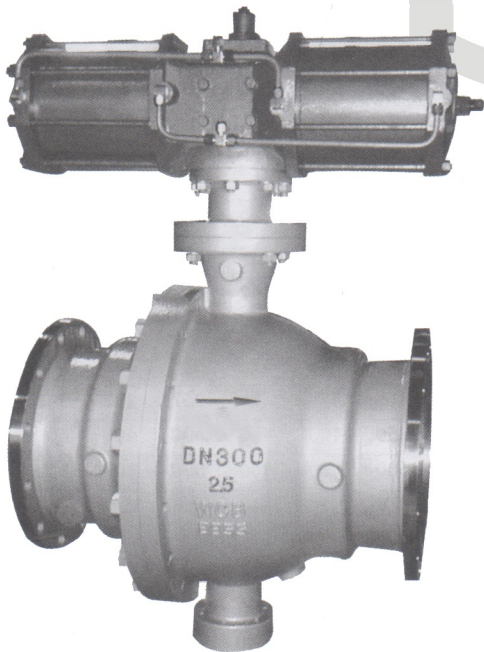
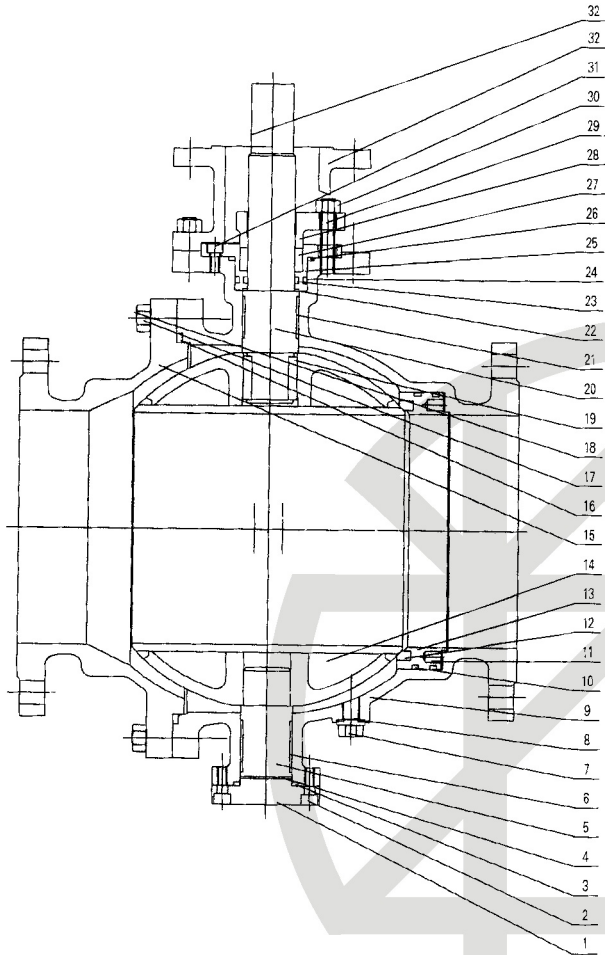
公称通径	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
d1	25	32	40	50	65	80	100	125	150	200	250	300	337	387	438	489	591	686
L	165	180	190	216	241	283	305	356	394	457	533	610	686	762	864	914	1067	1245
H	50	55	80	102	114	127	152	184	219	273	360	395	430	470	550	580	700	800
手动 Manual operated	H1	75	85	95	107	125	152	178	300	330	398	495	580	625	670	698	840	1050
	E	-	-	-	-	-	-	-	-	-	116	116	171	171	257	257	257	150
	F	-	-	-	-	-	-	-	-	-	350	350	400	420	400	420	400	650
	W	160	160	230	230	400	400	650	1050	1050	600	600	800	800	800	800	800	800
	Wt(kg)	4.5	5.7	7.0	12	16	22	35	58	74	205	322	460	576	864	1280	1600	3540
电动 Electromotor operated	H2	-	-	-	-	-	-	-	554	600	652	760	770	830	-	940	1020	1115
	L1	-	-	-	-	-	-	-	235	235	235	259	400	400	-	410	410	410
气动 Pneumatic operated	H3	215	240	264	274	379	389	479	552	666	736	926	1059	1127	1393	1468	1538	1450
	L2	200	270	270	270	405	405	576	576	776	776	776	1060	1060	1360	1360	2840	2840

PN2.5-4.0MPa 主要连接尺寸及重量 Main Connection Dimensions And Weights

单位: mm

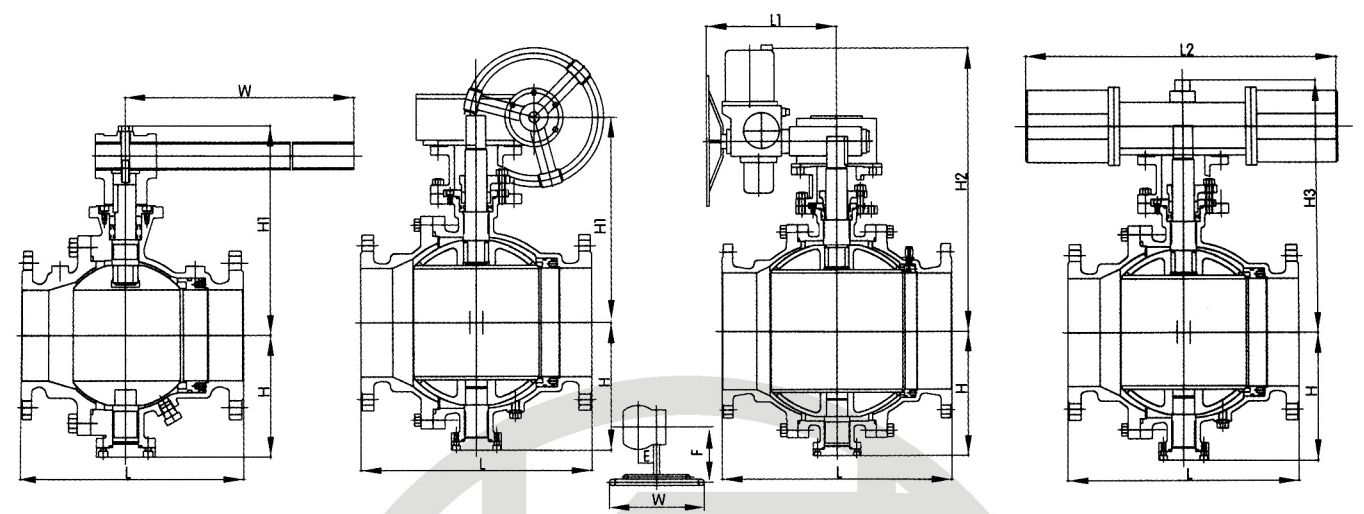
公称通径	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
d1	25	32	40	50	65	80	100	125	150	200	250	300	337	387	438	489	591	686
L	165	180	190	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346
H	50	55	80	102	114	127	152	184	219	273	360	395	430	470	550	580	700	800
手动 Manual operated	H1	75	85	95	107	125	152	178	300	330	398	495	580	625	670	698	840	1050
	E	-	-	-	-	-	-	-	-	-	116	116	171	171	257	257	257	150
	F	-	-	-	-	-	-	-	-	-	350	350	420	420	400	400	400	650
	W	160	160	230	230	400	400	650	1050	1050	600	600	800	800	800	800	800	800
	Wt(kg)	4.5	5.7	7.0	15	24	30	35	87	118	255	370	533	640	1030	1542	2100	5300
电动 Electromotor operated	H2	-	-	-	-	-	-	-	235	235	400	400	410	410	-	420	690	690
	L1	-	-	-	-	-	-	-	74	350	350	420	420	400	-	400	410	650
气动 Pneumatic operated	H3	215	240	264	340	379	452	479	646	666	814	1002	1059	1150	1205	1250	1295	1470
	L2	200	270	270	405	405	574	574	756	756	1060	1060	1060	1360	1360	2840	2840	3300

卸灰固定球阀材质 Push coal powder and discharge ash ball materiall



序号NO	零件名称Parts	碳钢 Carbon steel	灰铸铁 CastironI
1	底盖 Lower cover	25	25
2	底盖螺钉 Lower cover bolt	35CrMoA	35CrMoA
3	垫圈 Gasket	金属夹石墨 Metel backed graphite	
4	止推轴承 Thrust bearing	金属夹PTFE Metel backed PTFE	
5	下阀杆 lower stem	2Cr13	2Cr13
6	下阀杆轴承 lower stem bearing	金属夹PTFE Metel backed PTFE	
7	垫圈 Gasket	金属夹PTFE Metel backed PTFE	
8	排污塞 Drain plug	2Cr13	2Cr13
9	阀体 Body	WCB	
10	阀座O形圈 Seat O'ring	氟橡胶 VITON	
11	阀座 Seat	PPL	PPL
12	阀座弹簧 Seat spring	17-7PH	17-7PH
13	阀座支承圈 Seat retainerr	2Cr13	2Cr13
14	球体 Ball	0Cr18Ni9	0Cr18Ni9
15	阀盖 Body cap	WCB	灰铸铁 CastironI
16	垫圈 Gasket	金属夹石墨 Metel backed graphite	
17	螺母 Nut	45	45
18	双头螺柱 Stud	35CrMoA	35CrMoA
19	球体键 Ball key	40Cr	
20	上阀杆 Stem	2Cr13	2Cr13
21	阀杆O形圈 Stem O'ring	氟橡胶 VITON	氟橡胶 VITON
22	填料函O形圈 Packing washer O'ring	氟橡胶 VITON	氟橡胶 VITON
23	上阀杆轴承 Stem bearing	金属夹PTFE Metel backed PTFE	金属夹PTFE Metel backed PTFE
24	止推轴承 Thrust bearing	石墨 Graphite	
25	阀杆填料函 Packing washer	25镀铬	
26	阀杆填料 Stem pscking	石墨 GRAPHITE	
27	填料压盖 Stuffing gland	WCB	WCB
28	螺母 Nut	45	45
29	双头螺柱 Stud	35CrMoA	35CrMoA
30	螺钉 Bolt	35CrMoA	35CrMoA
31	支架 Yoke	WCB	WCB
32	键 Key	40Cr	40Cr

MQ347F卸灰固定球阀 Discharge ash ball



应用规范:

- 1、设计、制造按GB12237-89
- 2、结构长度按GB12221-89
- 3、连接法兰: JB79-94
- 4、阀门检查和试验按GB13927-89

NOTE

- 1.Design Manufacture According to GB12237-89
- 2.Face to Face According to GB12221-89
- 3.End Flange Dimension According to JB79-94
- 4.Valve Check and Test According to GB13927-89

PN0.25~1.6MPa 主要连接尺寸及重量 Main Connection Dimensions And Weights

单位: mm

公称通径		50	65	80	100	125	150	200	250	300	350	400	450	500
系列1L		216	241	283	305	356	394	457	533	610	686	762	864	914
系列2L		-	-	-	-	-	-	500	600	700	800	900	-	1000
H		102	114	127	152	184	219	273	360	395	430	470	550	580
手动 Manual operated	H1	107	125	152	178	300	330	398	495	580	625	670	698	840
	E	-	-	-	-	-	-	116	116	171	171	257	257	257
	F	-	-	-	-	-	-	350	350	400	420	400	420	400
	W	230	400	400	650	1050	1050	600	600	800	800	800	800	800
	Wt(kg)	12	16	22	35	58	74	205	322	460	576	864	1280	1600
电动 Electromotor operated	H2	-	-	-	-	-	554	600	652	760	770	830	-	940
	L1	-	-	-	-	-	235	235	235	259	400	400	-	410
气动 Pneumatic operated	H3	274	379	389	479	552	666	736	926	1059	1127	1393	1468	1538
	L2	270	405	405	576	576	776	776	776	1060	1060	1360	1360	1360

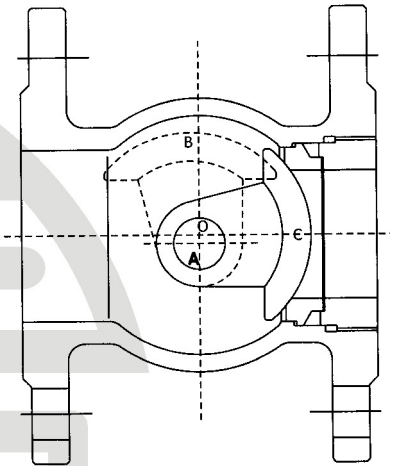
偏心半球阀特点及工作原理

偏心半球阀的特点

偏心半球阀的特点之一启闭无磨擦, 由于采用偏心结构, 阀门在关闭的过程中球体逐渐靠近阀座, 到关闭位置完全接触;在开启时球体离开密封位置即完全脱开开启扭矩小;第二个特点是密封面可实现自清洁, 球体离开阀座时, 介质可冲去密封面上的积聚物, 对于易结晶介质, 球体在关闭过程中可切除介质结晶达到密封的目的同, 避免了其它阀门无法开关的弊端;第三个特点是密封严密, 球体、阀座是双金属, 采取不同工艺, 密封面可组合成防腐、耐磨等各种类型, 满足不同工况的需求, 密封是球面线接触, 靠二维偏心实现零泄漏。

工作原理

偏心半球阀由阀杆带动球体绕旋转中心A转动时, 球体由B点移动到C点, 此时相对阀门中心O从B到C的轨迹为一凸轮状偏心, 向下进入阀座使阀门关闭保持密封。该阀由于存在上述凸轮原理, 阀门关闭件从开启到关闭过程中, 作用在阀座上的力逐渐增加, 即关闭件表面与阀座由完全脱离至接触, 并逐渐增大密封比压, 直至完全密封, 反之亦然。这就大大改善了以往球阀的密封状态和密封效果适合高温高压及易结晶磨损严重的场合使用。



适用场合

我公司半球阀产品按用途分为: 通用阀、管线阀、料浆专用阀、燃气专用阀、石油化工专用阀、煤粉喷吹专用阀六大系列。在石油、化工、冶金电力、燃气、排灰、喷煤粉等行业是闸阀、截止阀、Y型阀、球阀的更新换代产品。

主要设计参数

公称通径:2"--28"DN50-700

公称压力: Class150-600Lb PN1.0-10.0MPa

阀体材质: WCB CF8 CF8M

球体: 硬密封: WCB/CF8/CF8M+STL 软密封: CF8/CF8M

阀座: 硬密封: A105/F304/F316+STL 软密封: PTFE PPL

工作温度: 硬密封: -40-425℃ 软密封: -28-250℃

采用的主要标准

设计制造按AP16D GB/12237-1989;

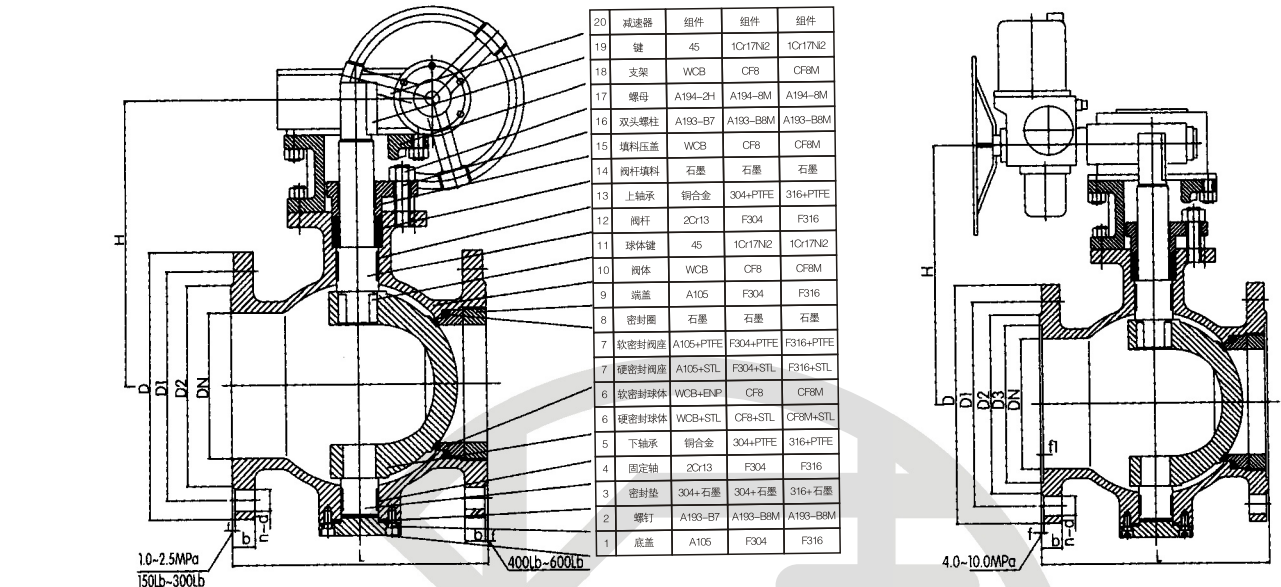
试验和检验按AP1598 JB/T9092-1999;

法兰尺寸按ANSI B16.5 GB/T9113-2000 JB/T79-1994

HG20592-1997;



PQ40HY偏心半球阀材质及连接尺寸



公称通径DN		150Lb (ANSI B16.5 RF法兰)								公称通径DN		400Lb (ANSI B16.5 RF法兰)							
		L	D	D1	D2	b	f	n-d	H			L	D	D1	D2	b	f	n-d	H
2"	50	124	152	120.5	92	16	1.6	4-19	200	2"	50	124	165	127	92	25.5	6.4	8-19	200
2½"	65	143	178	139.5	105	18	1.6	4-19	215	2½"	65	145	190	149	105	29	6.4	8-22	215
3"	80	165	190	152.5	127	19	1.6	4-19	235	3"	80	165	210	168.5	127	32	6.4	8-22	235
4"	100	194	229	190.5	157	24	1.6	8-19	250	4"	100	200	254	200	157	35	6.4	8-26	250
5"	125	213	254	216	186	24	1.6	8-22	280	5"	125	254	279	235	186	38.5	6.4	8-26	280
6"	150	229	279	241.5	216	26	1.6	8-22	300	6"	150	267	318	270	216	41.5	6.4	12-26	300
8"	200	243	343	298.5	270	29	1.6	8-22	370	8"	200	292	381	330	270	48	6.4	12-29	370
10"	250	297	406	362	324	31	1.6	12-25	420	10"	250	330	445	387.5	324	54	6.4	16-32	420
12"	300	338	483	432	381	32	1.6	12-25	450	12"	300	390	521	451	381	57.5	6.4	16-35	450
14"	350	430	533	476	413	35	1.6	12-29	520	14"	350	468	585	514.5	413	60.5	6.4	20-35	520
16"	400	500	597	540	470	37	1.6	16-29	570	16"	400	526	650	571.5	470	63.5	6.4	20-39	570
18"	450	560	635	578	533	40	1.6	16-32	640	18"	450	610	711	628.5	533	67	6.4	24-39	640
20"	500	620	699	635	584	43	1.6	20-32	640	20"	500	610	775	686	584	70	6.4	24-42	640
24"	600	680	813	749.5	692	48	1.6	20-35	720	24"	600	762	915	813	692	76.5	6.4	24-48	720
28"	700	760	927	863.5	800	72	1.6	28-35	800	28"	700	-	-	-	-	-	-	-	-
公称通径DN		300Lb (ANSI B16.5 RF法兰)								公称通径DN		600Lb (ANSI B16.5 RF法兰)							
		L	D	D1	D2	b	f	n-d	H			L	D	D1	D2	b	f	n-d	H
2"	50	124	165	127	92	23	1.6	8-19	200	2"	50	124	165	127	92	26	6.4	8-19	200
2½"	65	145	190	149	105	26	1.6	8-22	215	2½"	65	145	190	149	105	29	6.4	8-22	215
3"	80	165	210	168.5	127	29	1.6	8-22	235	3"	80	165	210	168.5	127	32	6.4	8-22	235
4"	100	200	254	200	157	32	1.6	8-22	250	4"	100	200	273	216	157	38	6.4	8-25	250
5"	125	254	279	235	186	35	1.6	8-22	280	5"	125	254	330	266.5	186	45	6.4	8-29	280
6"	150	267	318	270	216	37	1.6	12-22	300	6"	150	267	356	292	216	48	6.4	12-29	300
8"	200	292	381	330	270	42	1.6	12-25	370	8"	200	292	419	349	270	56	6.4	12-32	370
10"	250	330	445	387.5	324	48	1.6	16-29	420	10"	250	330	508	432	324	64	6.4	16-35	420
12"	300	390	521	451	381	51	1.6	16-32	450	12"	300	390	559	489	381	67	6.4	20-35	450
14"	350	468	584	514.5	413	54	1.6	20-32	520	14"	350	468	603	527	413	70	6.4	20-38	520
16"	400	526	648	571.5	470	58	1.6	20-35	570	16"	400	526	686	603	470	77	6.4	20-41	570
18"	450	610	711	628.5	533	61	1.6	24-35	640	18"	450	610	743	654	533	83	6.4	20-44	640
20"	500	610	775	686	584	64	1.6	24-35	640	20"	500	610	813	724	584	89	6.4	24-44	640
24"	600	762	914	813	692	70	1.6	24-41	720	24"	600	762	940	838	692	102	6.4	24-52	720
28"	700	889	1035	940	800	86	1.6	28-45	800	28"	700	-	-	-	-	-	-	-	-

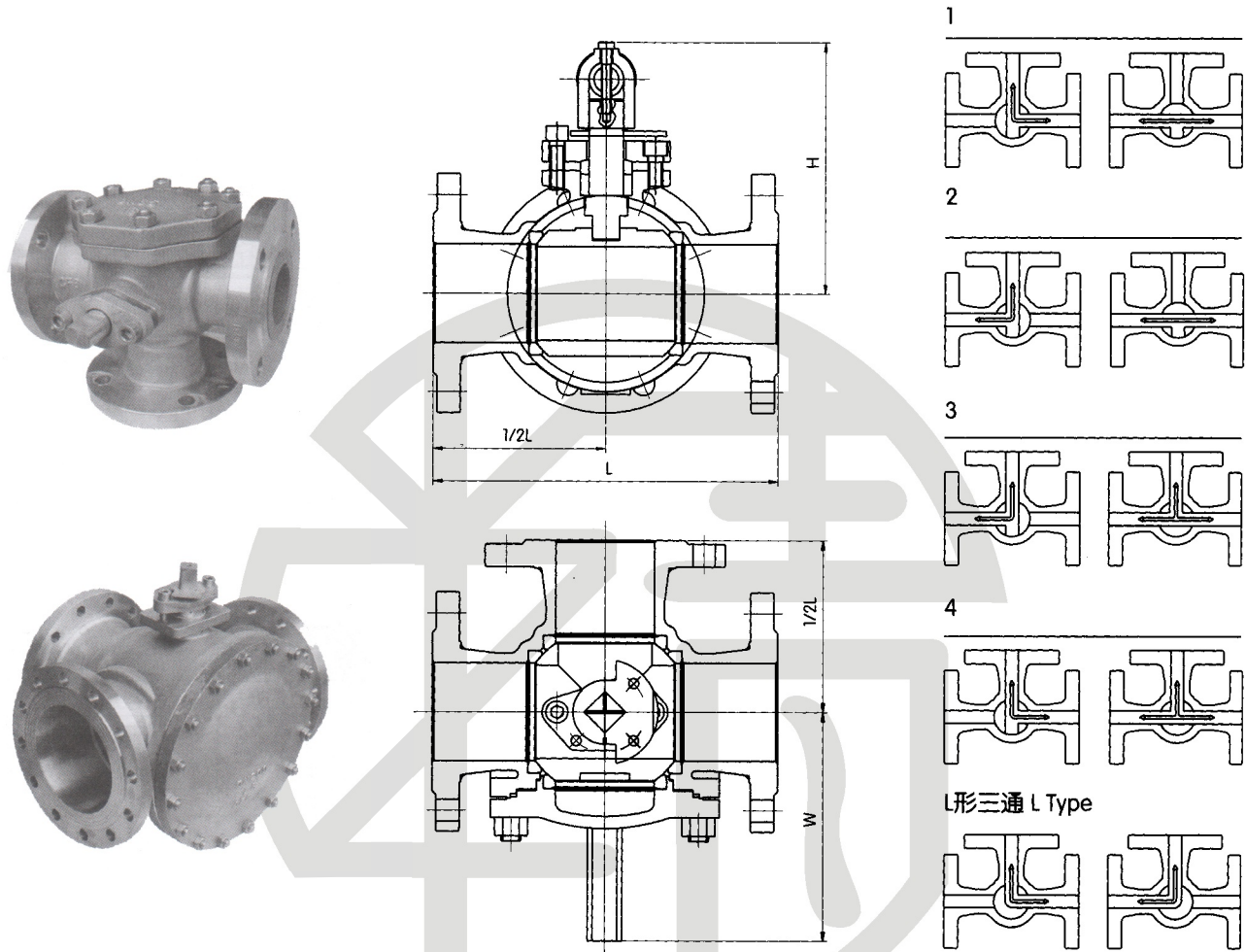
偏心半球阀连接尺寸

公称通径 DN	1.0MPa (GB9113-2000RF法兰)								公称通径 DN	4.0MPa (GB9113-2000FM法兰)									
	L	D	D1	D2	b	f	n-d	H		L	D	D1	D2	D3	F1	b	f	n-d	H
50	124	165	125	99	20	2	4-18	200	50	124	165	125	99	88	3	20	4	4-18	200
65	145	185	145	118	20	2	4-18	215	65	145	185	145	118	110	3	22	4	8-18	215
80	165	200	160	132	20	2	8-18	235	80	165	200	160	132	121	3	24	4	8-18	235
100	200	220	180	156	22	2	8-18	250	100	200	235	190	156	150	3.5	24	4.5	8-22	250
125	254	250	210	184	22	2	8-18	280	125	254	270	220	184	176	3.5	26	4.5	8-26	280
150	267	285	240	211	24	2	8-22	300	150	267	300	250	211	204	3.5	28	4.5	8-26	300
200	292	340	295	266	24	2	8-22	370	200	292	375	320	284	260	3.5	34	4.5	12-30	370
250	330	395	350	319	26	2	12-22	420	250	330	450	385	345	313	3.5	38	4.5	12-33	420
300	390	445	400	370	26	2	12-22	450	300	390	515	450	409	364	3.5	42	4.5	16-33	450
350	468	505	460	429	26	2	16-22	520	350	468	580	510	465	422	4	46	5	16-36	520
400	526	565	515	480	26	2	16-26	570	400	526	660	585	535	474	4	50	5	16-39	570
450	610	615	565	530	28	2	20-26	640	450	610	685	610	560	524	4	50	5	20-39	640
500	610	670	620	582	28	2	20-26	640	500	610	755	670	615	576	4	52	5	20-42	640
600	680	780	725	682	34	2	20-30	720	600	762	890	795	735	675	4	60	5	20-48	720
700	889	895	840	794	34	5	24-30	800	700	-	-	-	-	-	-	-	-	-	-

公称通径 DN	1.6MPa (GB9113-2000RF法兰)								公称通径 DN	6.3MPa (JB79-1994FM法兰)									
	L	D	D1	D2	b	f	n-d	H		L	D	D1	D2	D3	f1	b	f	n-d	H
50	124	165	125	99	20	2	4-18	200	50	124	180	135	105	88	4	26	3	4-23	200
65	145	185	145	118	20	2	4-18	215	65	145	205	160	130	110	4	28	3	8-23	215
80	165	200	160	132	20	2	8-18	235	80	165	215	170	140	121	4	30	3	8-23	235
100	200	220	180	156	22	2	8-18	250	100	200	250	200	168	150	4.5	32	3	8-26	250
125	254	250	210	184	22	2	8-18	280	125	254	295	240	202	176	4.5	36	3	8-30	280
150	267	285	240	211	24	2	8-22	300	150	267	345	280	240	204	4.5	38	3	8-34	300
200	292	340	295	266	24	2	12-22	370	200	292	405	345	300	260	4.5	44	3	12-36	370
250	330	405	355	319	26	2	12-26	420	250	330	470	400	352	313	4.5	48	3	12-36	420
300	390	460	410	370	28	2	12-26	450	300	390	530	460	412	364	4.5	54	4	16-36	450
350	468	520	470	429	30	2	16-26	520	350	468	600	525	475	422	5	60	4	16-41	520
400	526	580	525	480	32	2	16-30	570	400	526	670	585	525	474	5	66	4	16-42	570
450	610	640	585	548	34	2	20-30	640	450	-	-	-	-	-	-	-	-	-	-
500	620	715	650	609	36	2	20-33	640	500	610	800	705	640	576	5	70	4	20-48	640
600	762	840	770	720	38	2	20-36	720	600	762	930	820	750	675	6	76	5	20-58	720
700	889	910	840	794	40	5	24-36	800	700	-	-	-	-	-	-	-	-	-	-

Q44F/Q45F三通四密封球阀 Three Way Type Ball Valve

结构特点 Structure traits



应用规范 Application Norm

内容 Item	API系列API Series	GB系列GBSeries
设计规范 Application	AP16D	GB12237
压力温度等级 Pressure temperature lating	ANSI B16.34	GB9113
结构长度 Face to Face	SDV标准SDV Standard	SDV标准SDV Standard
法兰型式及尺寸 End Flang Dimension	ANSI B16.5	JB/T79-94
对焊接端 Welding Standard	ANSI B16.25	GB12224
检验与试验 Check and Test	API 598	Gb13927

Q44F/Q45F三通四密封球阀 Three Way Type Ball Valve

主要零件材质 Parts Material

零件名称 Parts	CF8系列 SERIES	Cf3系列 SERIES	CF8系列 SERIES	CF3M系列 SERIES	WCB系列 SERIES
阀体Body	CF8	CF3	CF8M	CF3M	WCB
阀盖 cap	CF8	CF3	CF8M	CF3M	WCB
球体Ball	F304	F304L	F316	F316L	1Cr13
阀座Seat	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL
阀杆Stem	F304	F304L	F316	F304	1Cr13
垫片Gasket	PTFE	PTFE	PTFE	PTFE	PTFE
阀杆轴承Stem bearing	PTFE	PTFE	PTFE	PTFE	PTFE
垫圈Gasket	304	304L	316	316L	1Cr13
填料压环Stuffing ring	304	304L	316	316L	1Cr13
螺柱Stud	A193-B8	A193-B8	A193-B8M	A193-B8M	35CrMoA
螺母Nut	A194-8M	A194-8M	A194-8M	A194-8M	45
填料压盖Stuffing gland	CF8	CF3	CF8M	CF3M	WCB

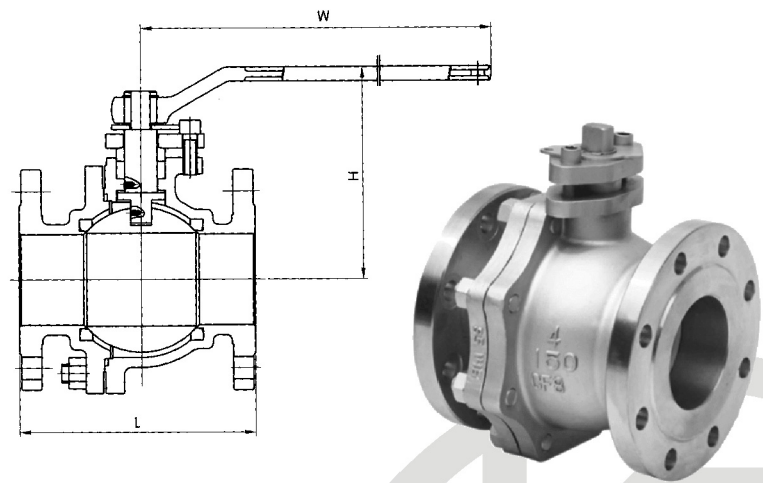
150-300Lb主要连接尺寸及重量 Main Connection Dimensions And Weights

尺寸	in	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8
	mm	15	20	25	32	40	50	65	80	100	125	150	200
L	mm	140	160	180	200	220	240	260	280	320	380	440	540
1/2L	mm	70	80	90	100	110	120	130	140	160	190	220	270
H	mm	90	95	105	115	135	140	155	185	210	275	305	335
W	mm	140	140	155	250	250	350	350	420	700	1000	1300	1800

1.6-4.0Lb主要连接尺寸及重量 Main Connection Dimensions And Weights

尺寸	in	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8
	mm	15	20	25	32	40	50	65	80	100	125	150	200
L	mm	140	160	180	200	220	240	260	280	320	380	440	540
1/2L	mm	70	80	90	100	110	120	130	140	160	190	220	270
H	mm	90	95	105	115	135	140	155	185	210	275	305	335
W	mm	140	140	155	250	250	350	350	420	700	1000	1300	1800

Q41F-160LB-300LB浮动球阀 Floating Ball Valve



应用规范:

- 1、设计、制造按BS5351
- 2、结构长度按ANSI B16.10
- 3、连接法兰: ANSI B16.5、JIS B2212-B2214
- 4、阀门检查和试验按API STD.598

NOTE

- 1.Design Manafacure According to Bs5351
- 2.Face to Face According to ANSI B16.10
- 3.End Flange Dimension According to ANSI B16.5 JIS B2212-B2214
- 4.Valve Check and Test According to API STD.598

结构 Structure:

B.B浮动结构、防火、防静电
Two pieces,Fire-proof structure,Antistatic design

主要零件材质 Parts Material

零件名称 Parts	CF8系列 SERIES	CF3系列 SERIES	CF8系列 SERIES	CF3M系列 SERIES	WCB系列 SERIES
阀体/阀盖Body/ cap	CF8	CF3	CF8M	CF3M	WCB
球体Ball	F304	F304L	F316	F316L	1Cr13
阀座Seat	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL
阀杆Stem	F304	F304	F316	F304	1Cr13
填料/垫片 Packing/Gasket	PTFE	PTFE	PTFE	PTFE	PTFE
螺栓bolt	A193-B8	A193-B8	A193-B8M	A193-B8M	35CrMoA
螺母Nut	A194-8M	A194-8M	A194-8M	A194-8M	45

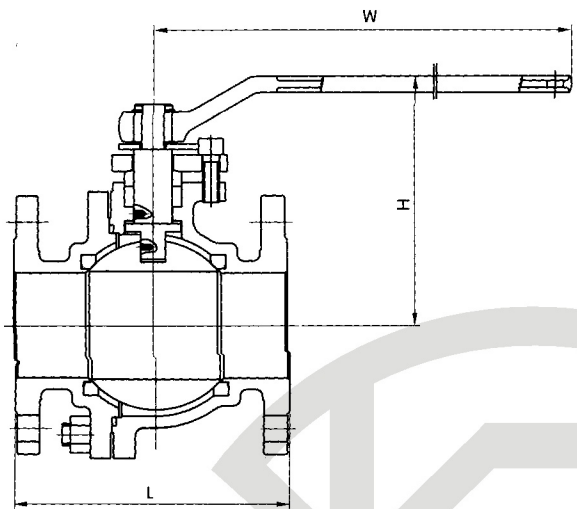
150Lb、10K主要连接尺寸及重量 Main Connection Dimensions And Weights

尺寸	inch	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"
	DN	15	20	25	40	50	65	80	100	125	150	200	250
L	mm	108	117	127	165	178	190	203	229	356	394	457	533
H	mm	59	63	75	97	107	142	152	178	252	272	342	345
W	mm	130	130	160	230	230	400	400	700	1100	1100	1500	1500
重量Wight	kg	2.3	3.0	4.5	7.0	9.5	15.0	19.0	33.0	58.0	93.0	160.0	200.0

300Lb、20K主要连接尺寸及重量 Main Connection Dimensions And Weights

尺寸	inch	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"
	DN	15	20	25	40	50	65	80	100	125	150	200	250
L	mm	140	152	165	190	216	241	283	305	381	403	502	568
H	mm	59	63	75	97	107	142	152	178	252	272	342	345
W	mm	130	130	160	230	230	400	400	700	1100	1100	1500	1500
重量Wight	kg	2.5	3.5	5.5	10.5	14.5	23.5	30.0	55.0	81.0	118.0	200.0	250.0

Q41F-16-40浮动球阀 Floating Ball valve



应用规范:

- 1、设计、制造按GB12237-89
- 2、结构长度按GB12221-89
- 3、连接法兰: JB/T79-94
- 4、阀门检查和试验按API STD.598

NOTE

- 1.Design Manafacure According to GB12237-89
- 2.Face to Face According to GB12221-89
- 3.End Flange Dimension According to JB/T79-94
- 4.Valve Check and Test According to API STD.598

结构 Structure:

B.B浮动结构、防火、防静电
Two pieces,Fire-proof structure,Antistatic design

主要零件材质 Parts Material

零件名称 Parts	ZG1Cr18N9Ti系列	ZG00Cr18Ni10系列	ZG1Cr18Ni12MO ₂ Ti系列	ZG00Cr17Ni14MO ₂ 系列	WCB系列
阀体/阀盖Body/ cap	ZG1Cr18N9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12MO ₂ Ti	ZG00Cr17Ni14MO ₂	WCB
球体Ball	1Cr18N9Ti	00Cr18Ni10	1Cr18Ni12MO ₂ Ti	00Cr17Ni14MO ₂	1Cr13
阀座Seat	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL	PTFE/PPL
阀杆Stem	1Cr18N9Ti	00Cr18Ni10	1Cr18Ni12MO ₂ Ti	00Cr17Ni14MO ₂	1Cr13
填料/垫片 Packing/Gasket	PTFE	PTFE	PTFE	PTFE	PTFE
螺栓bolt	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	35CrMoA
螺母Nut	1Cr18N9Ti	1Cr18N9Ti	1Cr18N9Ti	1Cr18N9Ti	45

1.6MPa主要连接尺寸及重量 Main Connection Dimensions And Weights

尺寸	DN	15	20	25	32	40	50	65	80	100	125	150	200
L	mm	130	140	150	165	180	200	220	250	280	320	360	400
H	mm	59	63	75	97	107	142	152	178	252	272	342	345
W	mm	130	130	160	230	230	400	400	700	1100	1100	1500	1500
重量Wight	kg	3	4	5	10	14	20	25	30	40	65	85	153

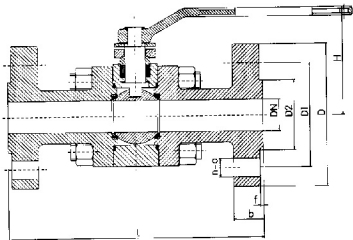
2.5MPa主要连接尺寸及重量 Main Connection Dimensions And Weights

尺寸	DN	15	20	25	32	40	50	65	80	100	125	150	200
L	mm	130	140	150	165	180	200	220	250	280	320	360	400
H	mm	59	63	75	97	107	142	152	178	252	272	342	345
W	mm	130	130	160	230	230	400	400	700	1100	1100	1500	1500
重量Wight	kg	3	4	5	10	14	20	25	30	40	65	85	153

4.0MPa主要连接尺寸及重量 Main Connection Dimensions And Weights

尺寸	DN	15	20	25	32	40	50	65	80	100	125	150	200
L	mm	130	140	150	180	200	220	250	280	320	360	450	502
H	mm	59	63	75	97	107	142	152	178	252	272	342	345
W	mm	130	130	160	230	230	400	400	700	1100	1100	1500	1500
重量Wight	kg	3	4	5	10	14	20	25	50	70	80	101	216

Q41F-16-40锻钢浮动球阀 Forged steel Floating ball valve



应用规范：

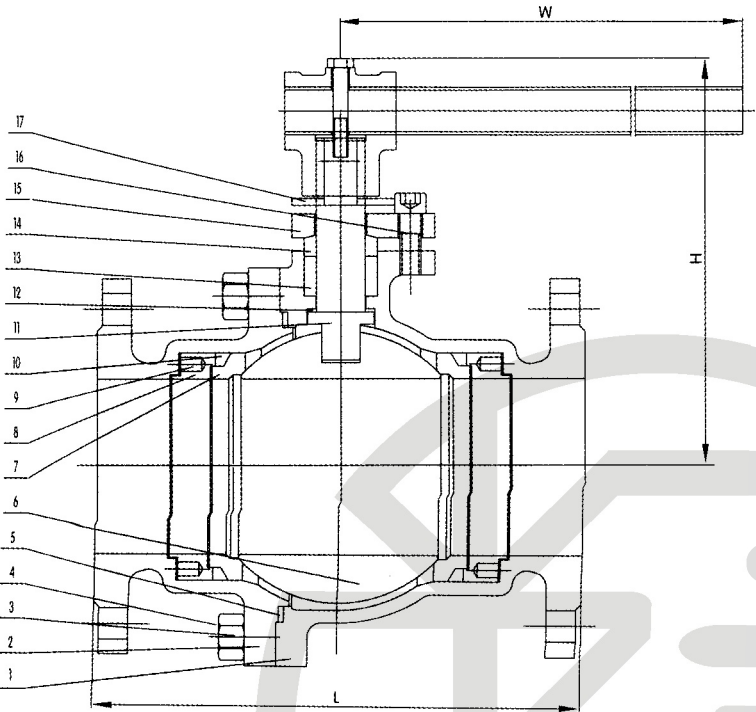
- 1、设计、制造按GB12237-89
- 2、结构长度按GB12221-89
- 3、连接法兰：JB/T79-94
- 4、阀门检查和试验按APISTD.598

NOTE

- 1.Design Manafacure According to GB12237-89
- 2.Face to Face According to GB12221-89
- 3.End Flange Dimension According to JB/T79-94
- 4.Valve Check and Test According to APISTD.598

公称通径 DN	1.6MPa (GB9113-2000RF法兰)								公称通径 DN	6.3MPa (JB79-1994FM法兰)											
	L	D	D1	D2	b	f	n-d	H		L	D	D1	D2	D3	F1	b	f	n-d	H		
15	108	95	65	46	14	2	4-14	76	15	165	105	75	55	40	4	18	2	4-14	76		
20	117	105	75	56	16	2	4-14	84	20	190	130	90	68	51	4	20	2	4-18	84		
25	127	115	85	65	16	2	4-14	90	25	216	140	100	78	58	4	22	2	4-18	90		
32	140	140	100	76	18	2	4-18	107	32	229	155	110	82	66	4	24	2	4-23	107		
40	165	150	110	84	18	2	4-18	127	40	241	170	125	95	76	4	24	3	4-23	127		
50	178	165	125	99	20	2	4-18	140	50	292	180	135	105	88	4	26	3	4-23	130		
65	191	185	145	118	20	2	4-18	164	65	330	205	160	130	110	4	28	3	8-23	180		
80	203	200	160	132	20	2	8-18	177	80	356	215	170	140	121	4	30	3	8-23	230		
100	229	220	180	156	22	2	8-18	205	100	406	250	200	168	150	4.5	32	3	8-26	285		
125	356	250	210	184	22	2	8-18	292	125	508	295	240	202	176	4.5	36	3	8-30	340		
150	394	285	240	211	24	2	8-22	330	150	495	345	280	240	204	4.5	38	3	8-34	435		
200	457	340	295	266	24	2	12-22	398	200	597	405	345	300	260	4.5	44	3	12-36	530		
公称通径 DN	2.5MPa (GB9113-2000RF法兰)								公称通径 DN	10.0MPa (JB79-1994FM法兰)											
	L	D	D1	D2	b	f	n-d	H		L	D	D1	D2	D3	F1	b	f	n-d	H		
15	140	95	65	46	14	2	4-14	76	15	165	105	75	55	40	4	20	2	4-14	76		
20	152	105	75	56	16	2	4-14	84	20	190	130	90	68	51	4	22	2	4-18	84		
25	165	115	85	65	16	2	4-14	90	25	216	140	100	78	58	4	24	2	4-18	90		
32	178	140	100	76	18	2	4-18	107	32	229	155	110	82	66	4	24	2	4-23	107		
40	190	150	110	84	18	2	4-18	127	40	241	170	125	95	76	4	26	3	4-23	127		
50	216	165	125	99	20	2	4-18	140	50	292	195	145	112	88	4	28	3	4-26	130		
65	241	185	145	118	22	2	8-18	164	65	330	220	170	138	110	4	32	3	8-26	180		
80	263	200	160	132	24	2	8-18	177	80	356	230	180	148	121	4	34	3	8-26	230		
100	305	235	190	156	24	2	8-22	205	100	432	265	210	172	150	4.5	38	3	8-30	285		
125	381	270	220	184	26	2	8-26	292	125	508	315	250	210	176	4.5	42	3	8-34	340		
150	403	300	250	211	28	2	8-26	330	150	559	355	290	250	204	4.5	46	3	12-34	435		
200	502	360	310	274	30	2	12-26	398	200	660	430	360	312	260	4.5	54	3	12-36	530		
公称通径 DN	4.0MPa (GB9113-2000FM法兰)								公称通径 DN	16.0MPa (JB79-1994FM法兰)											
	L	D	D1	D2	D3	F1	b	f		n-d	H	L	D	D1	D2	D3	F1	b	f	n-d	H
15	140	95	65	46	40	3	14	4	4-14	76	15	-	-	-	-	-	-	-	-	-	
20	152	105	75	56	51	3	16	4	4-14	84	20	-	-	-	-	-	-	-	-	-	
25	165	115	85	65	58	3	16	4	4-14	90	25	254	140	100	72	58	4	28	2	4-23	90
32	178	140	100	76	66	3	18	4	4-18	107	32	279	165	115	85	66	4	30	2	4-25	107
40	190	150	110	84	76	3	18	4	4-18	127	40	305	175	125	92	76	4	32	3	4-27	127
50	216	165	125	99	88	3	20	4	4-18	140	50	368	215	165	132	88	4	36	3	8-25	130
65	241	185	145	118	110	3	22	4	8-18	164	65	419	245	190	152	110	4	44	3	8-30	180
80	263	200	160	132	121	3	24	4	8-18	177	80	381	260	205	168	121	4	46	3	8-30	230
100	305	235	190	156	150	3.5	24	4.5	8-22	205	100	457	300	240	200	150	4.5	48	3	8-34	285
125	381	270	220	184	176	3.5	26	4.5	8-26	292	125	508	355	285	238	176	4.5	60	3	8-41	340
150	403	300	250	211	204	3.5	28	4.5	8-26	330	150	610	390	318	270	204	4.5	66	3	12-41	435
200	502	375	320	284	260	3.5	34	4.5	12-30	398	200	737	480	400	345	260	4.5	78	3	12-48	530

Q41H/Y-16-40硬密封浮动球阀 Material Seat Floating Ball Valve



应用规范：

- 1、设计、制造按GB12237-89
- 2、结构长度按GB12221-89
- 3、连接法兰：JB/T79-94
- 4、阀门检查和试验按APISTD.598

NOTE

- 1.Design Manafacure According to GB12237-89
- 2.Face to Face According to GB12221-89
- 3.End Flange Dimension According to JB/T79-94
- 4.Valve Check and Test According to APISTD.598

PN1.6MPa主要连接尺寸及重量 Main Connection Dimensions And Weights

单位：mm

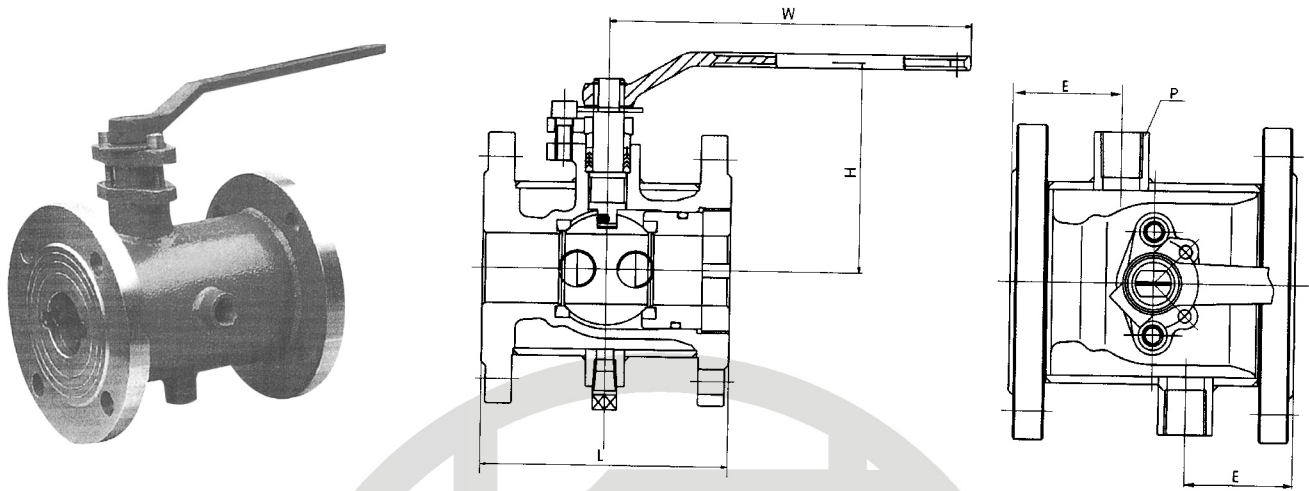
尺寸	15	20	25	32	40	50	65	80	100	125	150	200
L	130	140	150	165	180	200	220	250	280	320	360	400
H	59	63	75	105	95	107	142	152	178	252	272	342
W	130	130	160	180	230	230	400	400	650	1050	1050	1410
重量Wight	2.5	3	5	6	7	10	15	19	33	58	93	160

PN2.5-4.0MPa主要连接尺寸及重量 Main Connection Dimensions And Weights

单位：mm

尺寸	15	20	25	32	40	50	65	80	100	125	150	200
L	130	140	150	165	180	200	220	250	280	320	360	400
H	59	63	75	107	95	107	142	152	178	252	272	342
W	130	130	160	200	230	230	400	400	650	1050	1050	1410
重量Wight	3	4	6	6.5	9	12	20	25	44	75	105	200

BQ41F/PPL夹套保温球阀 Jacket Ball Valve



应用规范 Application Norm

内容 Item	API系列API Series	GB系列GBSeries
设计规范 Application	AP16D	GB12237
压力温度等级 Pressure temperature lating	ANSI B16.34	GB9113
结构长度 Face to Face	SDV标准SDV Standard	SDV标准SDV Standard
法兰型式及尺寸 End Flang Dimension	ANSI B16.5	JB/T79-94
对焊接端 Welding Standard	ANSI B16.25	GB12224
检验与试验 Check and Test	API 598	GB13927

主要零件材质 Parts Material

零件名称 Item	CF8系列 SERIES	CF3系列 SERIES	CF8M系列 SERIES	CF3M系列 SERIES	WCB系列 SERIES
阀体Body	CF8	CF3	CF8M	CF3M	WCB
球体Ball	F304	F304L	F316	F316L	1Cr13
阀座Seat	PTFE	PTFE	PTFE	PTFE	PTFE
阀座支承 Seat retainer	304	304L	316	316L	25
O形圈O-ring	氟橡胶Viton	氟橡胶Viton	氟橡胶Viton	氟橡胶Viton	氟橡胶Viton
阀杆Stem	F304	F304L	316	F316L	1Cr13
填料Packing	PTFE	PTFE	PTFE	PTFE	PTFE
阀杆轴承 Stem bearing	PTFE+304	PTFE+304L	PTFE+316	PTFE+316L	PTFE+304
填料压环 Stuffing ring	304	304L	316	316L	1Cr13
夹套 Jacket	304	304L	316	316L	25
夹套接管 Stell sube	304	304L	316	316L	1Cr13

BQ41F/PPL夹套保温球阀 Jacket Ball Valve

150Lb主要连接尺寸及重量 Main Connection Dimensions And Weights

尺寸	in	3/4"	1"	1-1/2"	2"	3"	4"	6"	8"
	DN	20	25	40	50	80	100	150	200
L	mm	117	127	165	178	229	254	292	330
H	mm	101	106	125	135	193	265	355	410
W	mm	160	160	230	230	400	650	1050	1050
E	mm	58.5	63.5	62.5	68	82	83	95	100
P	in	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT1
法兰规格	in	1-1/2"	2"	2-1/2"	3"	6"	8"	10"	14"
重量Wight	kg	4	6.5	9	13	23	38	98	168

300Lb主要连接尺寸及重量 Main Connection Dimensions And Weights

尺寸	in	3/4"	1"	1-1/2"	2"	3"	4"	6"	8"
	DN	20	25	40	50	80	100	150	200
L	mm	117	127	165	178	229	254	292	330
H	mm	101	106	125	135	193	265	355	410
W	mm	160	160	230	230	400	650	1050	1050
E	mm	58.5	63.5	62.5	68	82	83	95	100
P	in	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT1
法兰规格	in	1-1/2"	2"	2-1/2"	3"	6"	8"	10"	14"
重量Wight	kg	5	7.5	13	18	35	61	124	208

1.6MPa主要连接尺寸及重量 Main Connection Dimensions And Weights

尺寸	in	3/4"	1"	1-1/2"	2"	3"	4"	6"	8"
	DN	20	25	40	50	80	100	150	200
L	mm	117	127	165	178	229	254	292	330
H	mm	101	106	125	135	193	265	355	410
W	mm	160	160	230	230	400	650	1050	1050
E	mm	58.5	63.5	62.5	68	82	83	95	100
P	in	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT1
法兰规格	in	40	50	65	80	150	200	250	350
重量Wight	kg	4	6.5	9	13	23	38	98	168

2.5-4.0MPa主要连接尺寸及重量 Main Connection Dimensions And Weights

尺寸	in	3/4"	1"	1-1/2"	2"	3"	4"	6"	8"
	DN	20	25	40	50	80	100	150	200
L	mm	117	127	165	178	229	254	292	330
H	mm	101	106	125	135	193	265	355	410
W	mm	160	160	230	230	400	650	1050	1050
E	mm	58.5	63.5	62.5	68	82	83	95	100
P	in	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT1
法兰规格	in	40	50	65	80	150	200	250	350
重量Wight	kg	5	7.5	13	18	35	61	124	208