浮动式球阀

FLOATING BALL VALVE

产品结构特点 Structure Features

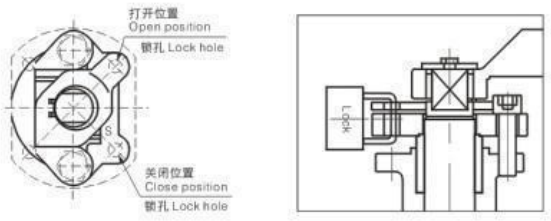
主要用于石油和天然气储运，在化工、冶金、造纸、食品、造船等工业领域做控制介质的启闭器，配上气动或电动装置还可以实现远程操作，取保操作人员人身安全。

It's mainly used for oil and natural gas storage and transportation, the chemical industry, metallurgy, paper making, food,shipbuilding and other industries to do the opening and closing control of media devices, coupled with pneumatic or electrical device can also be achieved remotely, bail operator safety.

特点 Feature

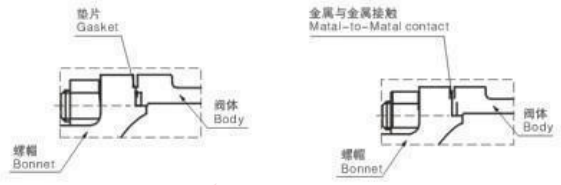
1、锁定及限位装置，为了防止阀门误操作，阀门上可配有锁定限位机构，特别是对于安装在野外或工艺不允许开或关的阀门，为防止他人误操作造成安全事故，将阀门锁定是十分必要的；

Locking, and limit device to prevent misuse of the valve, the valve can be equipped with a lock limit institutions, especially in the field or for the installation process does not allow to open or close the valve, causing security to prevent misuse of others accident, the valve lock is necessary;



2、防火结构设计，当发生火灾时，当非金属材料制作的阀座及密封件在高温下损坏后，特别设计的金属对金属辅助密封结构，有效的防止介质大量泄露；

Fire safe, the a fire occurs, when the non-metallic materials of the valve seat and seal damaged at high temperatures, a specially designed metal to metal secondary seal structure, effectively prevent the media a lot of leakage;



火烧前 Before fire　　火烧后 After fire



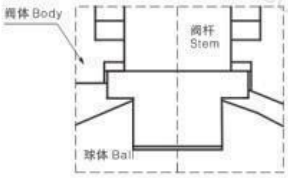
火烧前 Before fire　　火烧后 After fire



火烧前 Before fire　　火烧后 After fire

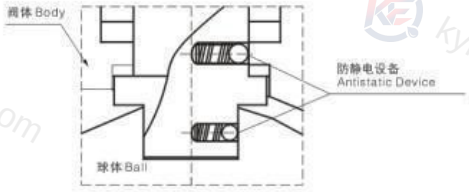
3、防吹出阀杆结构设计，阀杆采用下装式结构，防止了由于腔内压力异常升高而迫使阀杆飞出造成事故；PTFE止推垫片，确保阀杆与阀体之间平滑运转；

Anti-blow out stem design, stem the use of downloading structure, preventing the abnormal increase as intraluminal pressure forced Blow Out the accident; PTFE thrust washers to ensure smooth between the stem and valve operation;



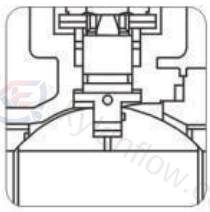
4、防静电结构设计，确保在易燃易爆工况上的安全使用；

Anti-static design, to ensure that working conditions in the explosive on the safe use;

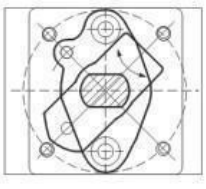


5、体腔泄压结构设计，确保阀门密封可靠，及延长其使用寿命；

Body cavity pressure relief design to ensure reliable sealing valve, and extending its life;



标准的ISO-5211接盘设计，方便客户随时更换操作方式。
Standard ISO-5211 disk access design to facilitate customer replacement operation at any time.



设有ISO 5211标准执行连接盘
Connection with the implementation of ISO 5211 standard plate

浮动式铸钢球阀

CAST STEEL FLOATING BALL VALVE

设计标准 Design Construction

1. 设计标准：API 6D、BS5351、ASME B16.34、GB/T12237
2. 结构长度：ASME B16.10、GB/T12221
3. 法兰尺寸：ASME B16.5、GB/T9113
4. 试验和检验：API 598、JB/T9092

注：系列阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

1. Design Standard:API 6D、BS5351、ASME B16.34、GB/T12237
2. Face to Face:ASME B16.10、GB/T12221
3. Flanged size:ASME B16.5、GB/T9113
4. Test & Inspection:API 598、JB/T9092

Notes: The sizes of serial valve connecting flange and butt-weldingl terminal can be designd according to customer's requirement.



产品型号 Product Model

Q(3、6、7、8、9)4(6)1F(Y、N、P)

产品性能规范 Products Performance Specification

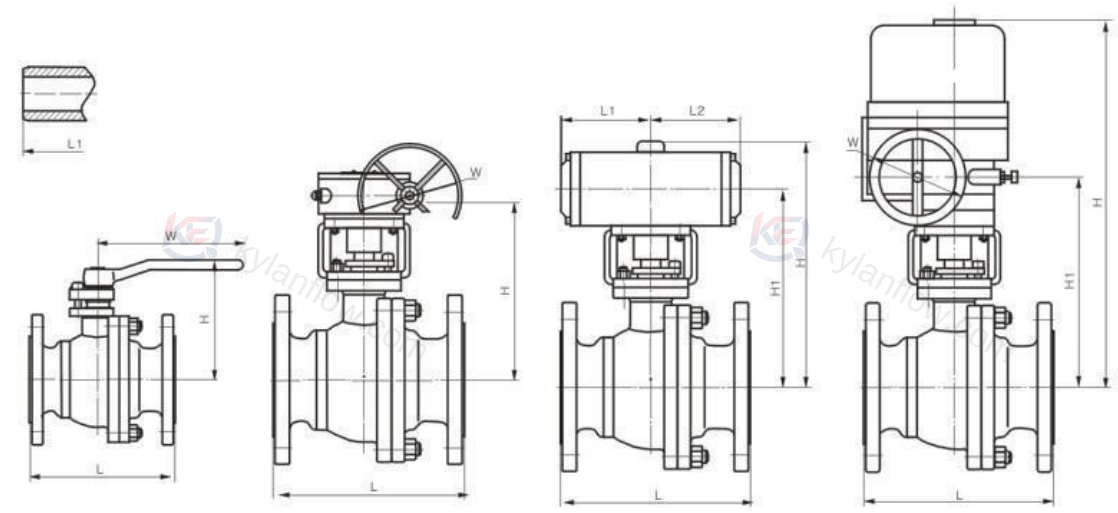
性能规范 Performance Specification		公称压力Nominal Pressure (MPa)					压力等级Pressure Grade (class)			
		1.6	2.5	4.0	6.4	10.0	150	300	400	600
试验压力 Testing Pressure (MPa)	强度试验 Shell test	2.4	3.75	6.0	9.6	15.0	2.93	7.58	10.0	15.0
	密封试验 Seal test	1.76	2.75	4.4	7.04	11.0	2.07	5.52	7.31	11.03
	气压试验Air test	0.6MPa								
适用温度Applicable Temperature		-196℃~550℃								
适用介质 Applicable Medium	普通型 Ordinary type	水、蒸汽、石油、液化气、天然气等 Water, Steam, Petroleum, LPG, Natural gas etc.								

主要零件材料 Major Parts Material Form

序号 No.	零件名称 Accessory name	材质Material		
		碳钢系列Carbon Steel Series	不锈钢系列Stainless Steel Series	低温系列Cryogenic Steel Series
1	右体Bonnet	A216 WCB	A351-CF8、CF8M、CF3、CF3M	A352 LCB、LCC
2	螺母Nut	A194 2H	A194 8M	A194 4
3	垫片Gasket	柔性石墨+不锈钢Flexible Graphite+stainless Steel		
4	螺柱Stud	A193-B7 A193-B8 A320 L7M		
5	阀体Body	A216 WCB	A351-CF8、CF8M、CF3、CF3M	A352 LCB、LCC
6	阀座Seat	PTEF、RPTFE、Sintering carbon fibre、Metal+Rubber groupware		
7	球体Ball*	A105+HCr/ENP	A182 F304 A182 F316	A350 LF2 A350 LF3+ENP
8	阀杆Stem**	A182 F6a	A182 F304、316	A182 F6a
9	垫片Gasket	A182 F6a		A182 F6a
10	填料垫片Packing gasket	柔性石墨Flexible graphite、PTFE		
11	填料压盖Gland	A216 WCB	A351 CF8、CF8M	A351 CF8
12	螺钉Screw nail	A193 B7	A193 B8、B8M	A320 L7
13	定位片Locating piece	GB/T 700 Q235A+Zn(Cr)		
14	挡圈Ring	A216 WCB		
15	手柄Wrench	GB/T 1222 65Mn		

浮动式铸钢球阀

CAST STEEL FLOATING BALL VALVE



手柄操作Lever operator　蜗轮操作Gear operator　气动操作Pneumatic operator　电动操作Electric operator

主要外形尺寸及重量 Main Size of Outside & Weight

PN1.6MPa CLASS150

DN	mm	15	20	25	40	50	65	80	100	125	150	200
NPS	in	1/2	3/4	1	$1^1/2$	2	$2^1/2$	3	4	5	6	8
L	RF	108	117	127	165	178	190	203	229	356	394	457
Lo	BW	140	152	165	190	216	241	283	305	381	457	521
手动 Hand-operated	M	59	63	75	95	107	142	152	178	252	272	342
	MO	130	130	160	230	230	400	400	650	1050	1050	1410
蜗轮蜗杆 Worm gear	B	/	/	/	/	/	/	/	/	/	292	398
	B0	/	/	/	/	/	/	/	/	/	400	600
	B1	/	/	/	/	/	/	/	/	/	350	350
	B2	/	/	/	/	/	/	/	/	/	115.5	115.5
气动 Pneumatic operated	A	200	204	257	264	340	370	389	594	646	646	781
	A1	122	126	162	169	209	239	258	337	437	437	537
	A2	326	326	347	420	426	426	590	523	610	610	885
	A3	136	136	181	181	257	257	257	287	378	378	530
电动 Electric Driving	D	/	/	/	/	472	486	579	595	650	739	799
	D1	/	/	/	/	377	391	484	500	500	589	649
	D0	/	/	/	/	190	190	190	190	400	400	400
重量 Weight Kg (RF)	手动	2.5	3	5	7	10	15	19	33	58	93	160
	气动	10	15.7	19.5	42.8	46.9	50.5	70	92.7	160.7	183.5	276
	电动	/	/	/	/	32	35.6	44	55	93	128	195

注：连接法兰尺寸、焊接端尺寸见附表 Flange dimensions,butt weld dimensions refer to annex.

浮动式铸钢球阀

CAST STEEL FLOATING BALL VALVE

主要外形尺寸及重量 Main Size of Outside & Weight

PN2.5/4.0MPa CLASS 300

DN	mm	15	20	25	40	50	65	80	100	125	150	200
NPS	in	1/2	3/4	1	$1^1/2$	2	$2^1/2$	3	4	5	6	8
L	RF	140	152	165	190	216	241	283	305	381	403	502
Lo	BW	140	152	165	190	216	241	283	305	381	457	521
手动 Hand-operated	M	59	63	75	95	107	142	152	178	252	272	342
	MO	130	130	160	230	230	400	400	650	1050	1050	1410
蜗轮蜗杆 Worm gear	B	/	/	/	/	/	/	/	/	/	292	398
	BO	/	/	/	/	/	/	/	/	/	400	600
	B1	/	/	/	/	/	/	/	/	/	350	421
	B2	/	/	/	/	/	/	/	/	/	115.5	171
气动、液动 Pneumatic hydraulic operated	A	200	204	257	264	340	379	452	594	646	744	920
	A1	122	126	162	169	209	248	295	375	437	500	615
	A3	326	326	347	420	426	426	590	523	610	610	885
	A4	136	136	181	181	257	257	257	287	378	378	530
电动 Electric Driving	D	/	/	/	/	472	486	579	595	650	739	799
	D1	/	/	/	/	377	391	484	500	500	589	649
	D0	/	/	/	/	190	190	190	190	400	400	400
重量 Weight Kg (RF)	手动	3	4	6	11	15	24	30	55	81	118	200
	气动	10	15.7	20	40.9	43.9	51.9	68	99.4	177.5	207.5	381
	电动	/	/	/	/	29	37	42	77	116	143	235

注：连接法兰尺寸、焊接端尺寸见附表 Flange dimensions,butt weld dimensions refer to annex.

主要外形尺寸及重量 Main Size of Outside & Weight

PN6.4/10.0MPa CLASS 600

DN	mm	15	20	25	40	50	65	80	100
NPS	in	1/2	3/4	1	$1^1/2$	2	$2^1/2$	3	4
L	RF	165	190	216	241	292	330	356	406(432)
Lo	BW	165	190	216	241	292	330	356	406(432)
手动 Hand-operated	M	59	63	75	95	142	154	184	209
	MO	160	160	230	400	400	650	650	1050
蜗轮、蜗杆 Worm gear	B	/	/	/	/	/	/	292	398
	B0	/	/	/	/	/	/	400	600
	B1	/	/	/	/	/	/	350	421
	B2	/	/	/	/	/	/	115.5	171
气动、液动 Pneumatic hydraulic operated									
	A1	122	145	146	169	209	248	295	375
	A3	283	283	283	350	590	590	523	610
	A4	136	136	181	181	257	257	287	378
电动 Electric Driving	D	/	/	/	/	472	599	599	632
	D1	/	/	/	/	377	4491	449	472
	D0	/	/	/	/	190	190	190	190
重量 Weight Kg (RF)	手动	8	11	15	19	25	32	48	76
	气动	17.2	21	24	32	68	75	101.3	177.5
	电动	/	/	/	/	60	67	83	111

注：表中()括号内尺寸为PN10.0(CLASS 600)的结构长度。连接法兰尺寸、焊接端尺寸见附录。
The dimensions in parentheses in above table are the face to face dimensions of PN10.0(CLASS 600) Flange dimensions,butt weld dimensions refer to annex.

浮动式锻钢球阀

FORGED STEEL FLOATING BALL VALVE

设计标准 Design Construction

1. 设计标准：API 6D、BS5351、ASME B16.34、GB/T12237
2. 结构长度：ASME B16.10、GB/T12221
3. 法兰尺寸：ASME B16.5、GB/T9113
4. 试验和检验：API 598、JB/T9092

注：系列阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

1. Design Standard:API 6D、BS5351、ASME B16.34、GB/T12237
2. Face to Face:ASME B16.10、GB/T12221
3. Flanged size:ASME B16.5、GB/T9113
4. Test & Inspection:API 598、JB/T9092

Notes: The sizes of serial valve connecting flange and butt-weldingl terminal can be designd according to customer's requirement.



产品型号 Product Model

Q(3、6、7、8、9)4(6)1F(Y、N、P)

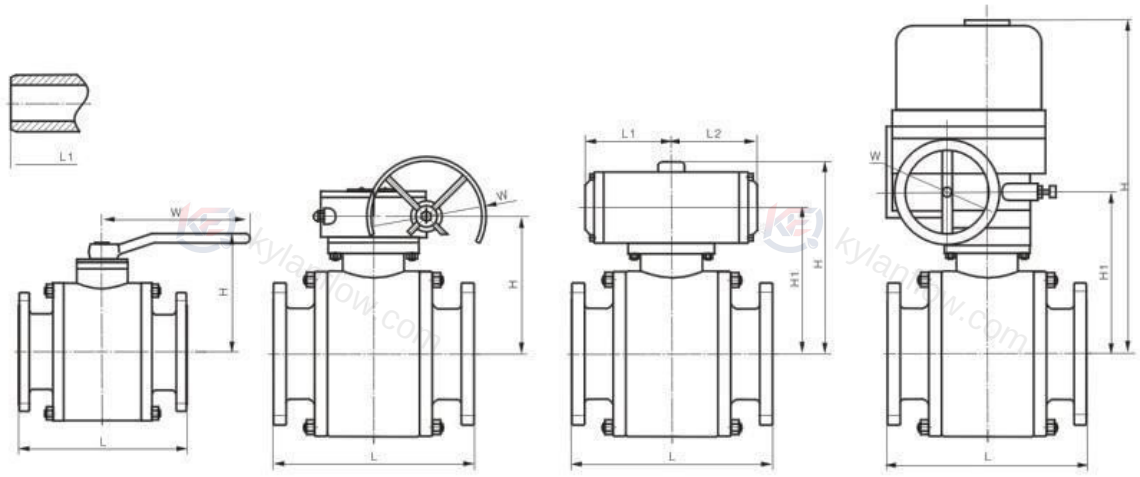
产品性能规范 Products Performance Specification

性能规范 Performance Specification		公称压力Nominal Pressure（MPa）					压力等级Pressure Grade（class）			
		1.6	2.5	4.0	6.4	10.0	150	300	400	600
试验压力 Testing Pressure（MPa）	强度试验 Shell test	2.4	3.75	6.0	9.6	15.0	2.93	7.58	10.0	15.0
	密封试验 Seal test	1.76	2.75	4.4	7.04	11.0	2.07	5.52	7.31	11.03
	气压试验Air test	0.6MPa								
适用温度Applicable Temperature		-196℃~550℃								
适用介质 Applicable Medium	普通型 Ordinary type	水、蒸汽、石油、液化气、天然气等 Water, Steam, Petroleum, LPG, Natural gas etc.								

主要零件材料 Major Parts Material Form

序号 No.	零件名称 Accessoryname	材质Material ASTM	序号 No.	零件名称 Accessory name	材质Material ASTM
1	垫片Gasket	柔性石墨+不锈钢 Flexible graphite+stainless steel	9	垫片Gasket	PTFE
2	阀座Seat	PTFE	10	填料垫Packing seat	A276-410
3	右体Bonnet	A105	11	填料Packing	柔性石墨Flexible graphite
4	螺母Nut	A194-2H	12	填料压盖Gland	A216-WCB
5	螺柱Stud	A193-B7	13	螺栓Bolt	A193-B7
6	阀体Body	A105	14	定位片Locating piece	Carbon steel
7	球体Ball	A105+ENP	15	挡圈Ring	AISI 1566
8	阀杆Stem	A182-F6a	16	手柄Wrench	A47-667 32510

浮动式锻钢球阀
FORGED STEEL FLOATING BALL VALVE



手柄操作 Lever operator　蜗轮操作Gear operator　气动操作Pneumatic operator　电动操作Electric operator

主要外形尺寸及重量 Main Size of Outside & Weight

PN1.6MPa CLASS 150

DN	mm	15	20	25	40	50	65	80	100	125	150	200
NPS	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8
法兰Flange	L	108	117	127	165	178	190	203	229	356	394	457
对焊Butt Welding	L1	140	152	165	190	216	241	282	305	381	403	419
手动 Hand-operated	H	73	78	86	102	130	142	191	200	226	242	285
	W	130	130	160	180	230	400	400	460	750	750	900
	Kg	3	4	6	12	15	19	22	46	65	85	127
蜗轮 蜗杆 传动 Worm gear operated	H	–	–	–	–	–	–	–	–	–	260	300
	W	–	–	–	–	–	–	–	–	–	400	600
	型号Type	–	–	–	–	–	–	–	–	–	A	B
	Kg	–	–	–	–	–	–	–	–	–	110	175
气动 Pneumatic operated	H	203	234	242	326	354	366	415	485	607	623	742
	H1	125	139	147	195	223	235	284	328	398	414	498
	L2	326	326	347	420	426	426	590	523	610	610	885
	L3	136	136	181	181	257	257	257	287	378	378	530
	型号Type	AG06	AG09	AG09	AG13	AG13	AG13	AG13	AW13	AW17	AW17	AW20
	Kg	6.1	6.3	8.1	14.1	16.6	38.0	42.1	53.0	93.5	105.2	207.8
电动 Electric Driving	H	–	–	–	–	432	443	454	493	574	646	678
	H1	–	–	–	–	337	348	359	398	424	496	528
	W	–	–	–	–	190	190	190	190	400	400	400
	型号Type	–	–	–	–	Q60-1	Q60-1	Q60-1	Q60-1	Q120-1	Q120-1	Q120-1
	Kg	–	–	–	–	23	25	60	75	97	162	226

浮动式锻钢球阀

FORGED STEEL FLOATING BALL VALVE

主要外形尺寸及重量 Main Size of Outside & Weight

PN2.5 /4.0MPa CLASS 300

DN	mm	15	20	25	40	50	65	80	100	125	150	200
NPS	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8
法兰Flange	L	140	152	165	190	216	241	282	305	381	403	502
对焊Butt Welding	L1	140	152	165	190	216	241	282	305	381	403	502
手动 Hand-operated	H	73	80	86	102	136	164	191	223	240	253	307
	W	140	140	180	230	240	400	400	750	750	900	1000
	Kg		6	6.8	11.2	18.3	32	38	78	85	102	125
蜗轮 蜗杆 传动 Worm gear operated	H		–	–	–	–	–	–	–	–	325	387
	W		–	–	–	–	–	–	–	–	400	600
	型号Type		–	–	–	–	–	–	–	–	A	B
	Kg		–	–	–	–	–	–	–	–	148	196
气动 Pneumatic operated	H	204	236	242	326	359	388	415	508	621	675	824
	H1	126	141	147	195	228	257	284	351	412	466	580
	L2	326	326	347	420	426	426	590	523	610	610	885
	L3	136	136	181	181	257	257	257	287	378	378	530
	型号Type	AG06	AG09	AG09	AG13	AG13	AG13	AG13	AW13	AW17	AW17	AW20
	Kg	6.2	6.4	8.5	16.9	20.6	42.5	52.7	77.9	107.0	130	220
电动 Electric Driving	H		–	–	–	432	443	454	493	574	646	678
	H1		–	–	–	337	348	359	398	424	496	528
	W		–	–	–	190	190	190	190	400	400	400
	型号Type		–	–	–	Q60-1	Q60-1	Q60-1	Q60-1	Q120-1	Q120-1	Q120-1
	Kg		–	–	–	23	35	60	75	100	170	245

主要外形尺寸及重量 Main Size of Outside & Weight

PN 6.4/10.0MPa CLASS 600

DN	mm	15	20	25	40	50	65	80	100
NPS	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4
法兰Flange	L	165	190	216	241	292	330	356	406(432)*
对焊Butt Welding	L1	165	190	216	241	292	330	356	406(432)
手动 Hand-operated	H	73	80	86	110	142	171	185	220
	W	160	160	230	400	400	650	650	800
	Kg	4.5	6.2	7.5	12.5	26.1	38	44	65
蜗轮 蜗杆 传动 Worm gear operated	H	–	–	–	–	–	–	182	217
	W	–	–	–	–	–	–	280	400
	型号Type	–	–	–	–	–	–	O	A
	Kg	–	–	–	–	–	–	50	95
气动 Pneumatic operated	H	229	236	242	266	366	395	470	601
	H1	134	141	147	171	235	264	313	392
	L2	283	283	283	350	590	590	523	610
	L3	136	181	181	181	257	257	287	378
	型号Type	AG09	AG09	AG09	AG09	AG13	AG13	AG13	AW17
	Kg	6.5	6.8	9.3	17.8	33.6	45.1	55.3	81.3
电动 Electric Driving	H	–	–	–	–	500	520	545	558
	H1	–	–	–	–	350	370	395	408
	W	–	–	–	–	190	190	190	190
	型号Type	–	–	–	–	Q120-1	Q120-1	Q120-1	Q120-1
	Kg	–	–	–	–	26	41	72	92

表中*( )内的尺寸是PN10.0MPa Class 600.The dimension in parentheses is for PN 10.0 MPa. Class 600

固定式球阀

TRUNNION TYPE BALL VALVE

产品结构特点 Structure Features

固定式球阀主要适用于天然气、油品、化工、冶金、城建、环保、制药、食品等行业，其中抗硫系列产品适用于含硫化氢介质、杂质多、腐蚀严重的天然气长输管线。

Serial floating ball valves are mainly applied to matural gas,oil products,chemical engineering,metallurgy,city building,environment protection,pharmacy and food industries,among which the anti-sulphur series are used for long delivery pipes of natural gas that contains hydrogen sulphide medium,a lot of impurity and corrosive substances.

特点 Feature

密封脂紧急注射装置

根据用户要求，固定球阀可以设置密封脂紧急注射装置，对于DN150(NPS6)以上的固定球阀，在阀杆和阀座上均装有密封脂注射装置，当阀座密封圈或阀杆O型密封圈因意外事故损坏时，可通过密封脂注射装置注射密封脂，以防止介质通过阀座密封圈和阀杆的泄漏。

Urgent Grease Injection Device

According to customers' requirement, the trunnion ball valves made by company are provided with devices for urgentgrease injection, which are on both the stem and seat for the trunnion ball valves of DN>150mm (NPS6), and in the body cavity for the valve of DN<125mm. When the Oring of stem or the body seat ring is damaged due to accident, the mediumleakage between body and stem can be prevented by injecting the sealing grease through the device.

防火结构设计

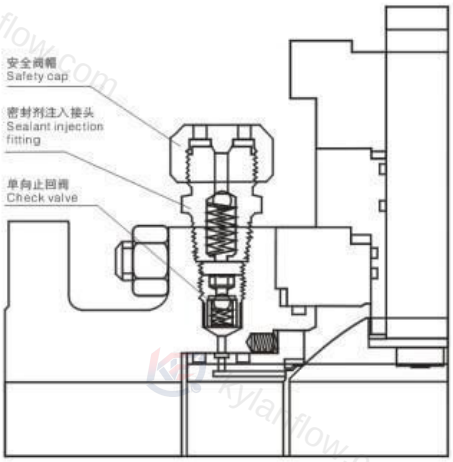
在阀门的使用现场发生火灾时，当聚四氟乙烯，橡胶等非金属材料制作的阀座密封圈、阀杆的 O型密封圈以及中法兰 O型密封圈在高温下损坏后，东宝固定球阀能够借助于特别设计的金属对金属辅助密封结构或柔性石墨密封结构，有效地控制阀门的内漏和外漏。对于用户有防火要求的固定球阀，东宝

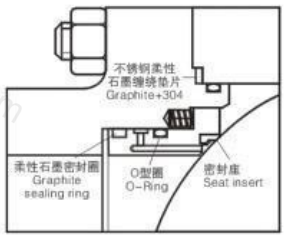
公司的防火结构设计均符合API 607, API 6Fa, BS 6755 及JB/T 6899等标准规范的要求。

Fire Safe Design

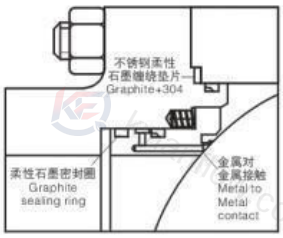
With the valve heated in a fire application, the nonmetal material parts such as seat sealing ring of PTFE, O-ring for the stem, and sealing gasket for body and bonnet, might be damaged due to high temperature. special design of auxiliary metal to metal or the graphite seal is provited for the trunnion ball valve to effectively prevent both internal and external leakage of the valve.

As required by customers, fire safe design For the trunnion ball valve meets the requirement of API 607, API 6Fa, BS 6755 and JB/T 6899.





火烧前 Before Fire



火烧后 After Fire

阀杆的防吹出结构设计

阀杆采用防吹出结构设计。下端大上端小的阀杆在上端盖和螺钉的定位下，即使在阀腔异常升压的情况下，也能保证阀杆不会被介质吹出。

Blow-out Proof Stem

Blow-out proof structure is provited with for the stem, which is positio-ned by the up-end cap and screw, being guaranteed not to be blown-out by the medium even if at abnormal risen pressure in the cavity.

防静电设计

固定球阀通过防静电设计使球体、阀杆、阀体形成静电通道。从而可将球体与阀座开关过程中由于摩擦产生的静电通过阀体引到大地，防止静电火花可能引起的火灾或爆炸危险。

Anti-static Design

By anti-static design, the ball, stem and body of the trunnion mounted ball valve forms a static channel through which the static electricity caused in the switching process of ball and body will be guide to the ground. Thus it can prevent the valve from the potential fire and explosion risk.

固定式铸钢球阀

CAST STEEL TRUNNION TYPE BALL VALVE

设计标准 Design Construction

1. 设计标准：API 6D、GB/T12237
2. 结构长度：ASME B16.10、GB/T12221
3. 法兰尺寸：ASME B16.5、ASME B16.47、GB/T9113
4. 试验和检验：API 598、JB/T9092

注：1. 系列阀门连接法兰端尺寸可根据用户要求设计制造。
2. DN＞1000(40")阀门设计标准按《长输管线阀门技术条件》

1. Design Standard:API 6D、GB/T12237
2. Face to Face:ASME B16.10、GB/T12221
3. Flanged size:ASME B16.5、ASME B16.47、GB/T9113
4. Test & Inspection:API 598、JB/T9092

Notes: 1.The sizes of serial valve connecting flange ends can be designed according to customer's requirement.
2.DN>1000(40"), the design standard is accordancewith《Specification of the length pipe valve》



产品型号 Product Model

Q(3、6、7、8、9)4(6)7F(Y、N、P)

产品性能规范 Products Performance Specification

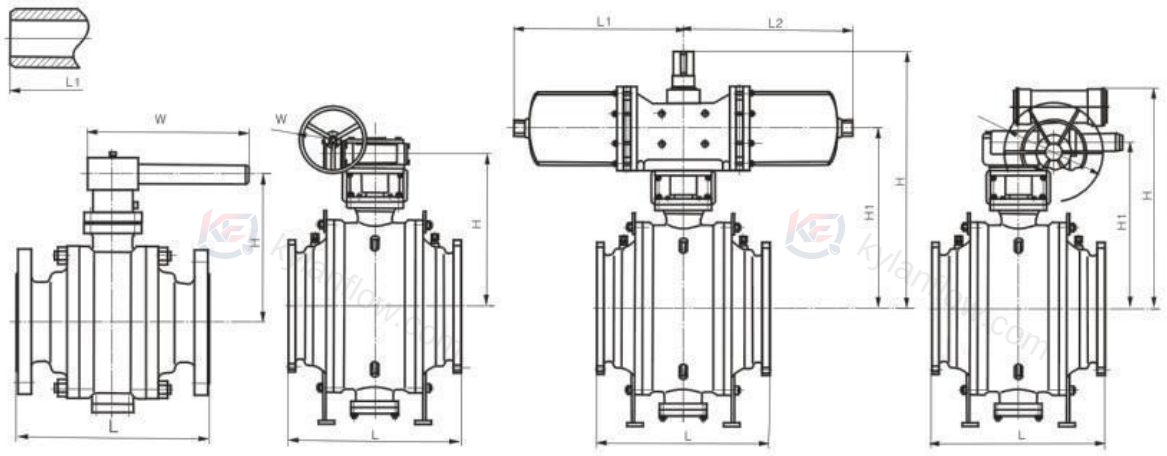
性能规范 Performance Specification		公称压力Nominal Pressure（MPa）					压力等级Pressure Grade（class）						
		1.6	2.5	4.0	6.4	10.0	150	300	400	600	900	1500	2500
试验压力 Testing Pressure (Mpa)	强度试验Shell test	2.4	3.75	6.0	9.6	15.0	2.93	7.58	10.0	15.0	22.5	37.5	63.0
	密封试验Seal test	1.76	2.75	4.4	7.04	11.0	2.07	5.52	7.31	11.03	16.5	27.5	46.2
	气压试验Air test	0.6MPa											
适用温度Applicable Temperature		-196℃~550℃											
适用介质 Applicable Medium	普通型 Ordinary type	水、蒸汽、石油、液化气、天然气等 Water, Steam, Petroleum, LPG, Natural gas etc.											

主要零件材料 Major Parts Material Form

序号 No.	零件名称 Part name	材质Material ASTM	序号 No.	零件名称 Part name	材质Material ASTM
1	左右体Bonnet	A216-WCB	15	密封圈Sealing ring	PTFE
2	螺栓Bolt	A193-B7	16	球体Ball*	WCB+ENP
3	螺母Nut	A194-2H	17	上阀杆Stem*	A182-F6a
4	底盖Bottom Cover	A105	18	键Key	AISI C1045
5	垫片Gasket	柔性石墨+不锈钢	19	填料垫Packing seat	A276-420
6	下阀杆Stem*	A182-F6a	20	填料Packing	柔性石墨 Flexible graphite
7	O型圈"O"Ring	Viton	21	O型圈"O"Ring	Viton
8	垫片Gasket	柔性石墨+不锈钢	22	垫片Gasket	柔性石墨+不锈钢
9	阀体Body	A216-WCB	23	阀盖Cover	A105
10	排污堵头Drain plug	A105	24	O型圈"O"Ring	Viton
11	注脂阀Grease injection valve	Assembled	25	填料压盖Gland	A216-WCB
12	弹簧Spring	Inconel X-750	26	支架Yoke	A216-WCB
13	O型圈"O"Ring	Viton	27	连接套Connection set	AISI C1045
14	阀座Seat*	A105			

固定式铸钢球阀

CAST STEEL TRUNNION TYPE BALL VALVE



手柄操作 Lever operator　蜗轮操作Gear operator　气动操作Pneumatic operator　电动操作Electric operator

主要外形尺寸及重量 Main Size of Outside & Weight

PN1.6MPa CLASS 150

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200
NPS	in	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48
法兰Flange	L	178	191	203	229	356	394	457	533	610	686	762	864	914	1067	1245	1372	1524	1721	1829	2180
对焊 Butt Welding	L1	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1727	1930	1689	2100
手动 Hand-Operated	H	107	125	152	178	300	330	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	W	230	400	400	450	700	750	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Kg	9.5	15	19	33	58	93	–	–	–	–	–	–	–	–	–	–	–	–	–	–
蜗轮蜗杆传动 Worm gearoperated	H	–	–	–	–	–	–	398	495	580	625	670	698	840	1050	1100	1150	1230	1320	1480	1610
	W	–	–	–	–	–	–	600	600	800	800	800	800	800	800	800	800	800	800	800	800
	型号 Type	–	–	–	–	–	–	B	B	C	C	D	D	D	DA	DA	DB	DB	DC	DC	DD
	Kg	–	–	–	–	–	–	160	180	240	390	510	750	1190	2600	3000	4490	7800	12560	14280	21900
气动 Air-operating	H	269	379	389	479	552	666	804	839	972	1127	1459	1529	1559	1145	1160	1460	1540	1630	–	–
	H1	174	248	258	322	395	457	595	630	728	883	1154	1224	1294	915	930	1100	1180	1280	–	–
	L1	89	148	148	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	–	–
	L2	181	257	257	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	–	–
	型号 Type	AG09	AG13	AG13	AW13	AW13	AW17	AW17	AW17	AW20	AW20	AW28	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C3-600	-	-
	Kg	16.6	38	42.1	53	95.3	105.2	207.8	255	409	518	838	1067	1295	2330	3200	4750	8200	13200	–	–
电动 Electric Driving	H	–	–	–	–	–	554	600	652	761	771	831	921	943	1123	1218	1328	1696	1925	2105	2245
	H1	–	–	–	–	–	337	382	435	480	520	580	670	770	850	945	1055	1130	1240	1420	1560
	W	–	–	–	–	–	200	200	200	280	280	280	305	305	305	400	400	460	460	600	600
	型号 Type	–	–	–	–	-	SMC-04 +H08C	SMC-04 +H08C	SMC-04 +H1BC	SMC-04 +H1BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-00 +H3BC	SMC-00 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-1 +H5BC	SMC-2 +H6BC	SMC-3 +H6BC	SMC-3 +H7BC	SMC-4 +H7BC
	Kg	–	–	–	–	–	127	210	270	420	535	862	1100	1350	2420	3410	5120	9100	14100	15200	22300

表格L栏中，RF表示突面法兰结构长度，BW表示焊接结构长度，RJ表示环连接形式结构长度。
Flange dimensions,butt weld dimensions refer to annex A.Column L in the above table,RF:Raised end:BW:Butt weld end,RJ:Ring joint end

固定式铸钢球阀

CAST STEEL TRUNNION TYPE BALL VALVE

主要外形尺寸及重量 Main Size of Outside & Weight

PN2.5/4.0MPa CLASS 300~600

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200
NPS	in	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48
法兰Flange	L	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346	1524	1727	2083	2050	2180
对焊	L1	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1727	2083	1960	2020
手动 Hand-Operated	H	107	125	152	178	300	330	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	W	230	400	400	600	700	800	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Kg	20.9	42.5	52.9	92	145	182	–	–	–	–	–	–	–	–	–	–	–	–	–	–
蜗轮蜗杆传动 Worm gearo perated	H	–	–	–	–	–	–	398	495	580	625	670	698	840	1050	1100	1150	1230	1320	1480	1610
	W	–	–	–	–	–	–	600	600	800	800	800	800	800	800	800	800	800	800	800	800
	型号	–	–	–	–	–	–	B	B	C	C	D	D	DA	DB	DC	DC	DD	DD	DD	DH
	Kg	–	–	–	–	–	–	278	500	733	1029	1418	1592	2195	3460	5770	7932	10093	13775	16105	24060
气动 Air-operating	H	269	379	452	579	595	595	736	942	994	1188	1280	1480	1554	1380	1430	1749	1540	1630	–	–
	H1	209	248	295	322	386	386	527	698	750	883	975	1080	1154	930	980	1149	1180	1280	–	–
	L1	148	148	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	1960	–	–
	L2	181	257	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	1960	–	–
	型号	AG13	AG13	AW13	AW13	AW17	AW17	AW17	AW20	AW20	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C2-490	C3-600	C3-600	–	–
	Kg	20.9	42.5	52.7	77.9	107	130	220	280	450	570	920	1140	1360	2450	3360	5800	7900	10200	–	–
电动 Electric Driving	H	–	–	–	–	–	554	600	652	761	771	831	921	943	1123	1218	1328	1696	1925	2105	2245
	H1	–	–	–	–	–	337	382	435	480	520	580	670	770	850	945	1055	1130	1240	1420	1560
	W	–	–	–	–	–	200	200	200	280	280	280	305	305	305	400	400	460	460	600	600
	型号	–	–	–	–	–	SMC-04 +H0BC	SMC-04 +H1BC	SMC-04 +H1BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-00 +H3BC	SMC-00 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-1 +H5BC	SMC-2 +H6BC	SMC-2 +H6BC	SMC-3 +H6BC	SMC-3 +H7BC	SMC-4 +H7BC
	Kg	–	–	–	–	–	142	240	320	475	590	1050	1200	1470	2520	3720	6250	8300	1121	1620	2510

主要外形尺寸及重量 Main Size of Outside & Weight

PN6.4-10.0MPa CLASS 600

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200
NPS	in	2	2½	3	4	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48
法兰Flange	L	292	330	356	406	495	597	673	762	826	902	978	1054	1232	1397	1651	1880	2300	2057	2400
对焊	L1	292	330	356	406	495	597	673	762	826	902	978	1054	1232	1397	1651	1880	2300	2050	2180
手动 Hand-Operated	H	108	155	197	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	W	230	400	400	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Kg	25	45	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
蜗轮蜗杆传动 Worm gearo perated	H	–	–	–	235	300	374	445	512	550	615	750	810	1050	1100	1180	1274	1366	1540	1680
	W	–	–	–	600	600	800	800	800	800	800	800	800	800	800	800	800	800	1000	1000
	型号	–	–	–	B	C	C	C	D	D	DA	DA	DB	DC	DD	DD	DH	DH	DJ	DJ
	Kg	–	–	–	66	145	250	540	780	1000	1300	2100	3400	5000	6520	8350	11250	14100	72500	29500
气动 Air-operating	H	269	–	519	636	728	839	1014	1120	1225	1480	–	1480	1365	1430	–	–	–	–	–
	H1	209	–	295	322	386	527	698	750	883	1080	–	1080	915	980	–	–	–	–	–
	L1	148	–	287	287	378	378	530	530	680	680	–	680	1665	1665	–	–	–	–	–
	L2	257	–	287	287	378	378	530	530	680	680	–	680	1665	1665	–	–	–	–	–
	型号	AG13	–	AW13	AW13	AW17	AW20	AW20	AW28	AW28	C1-355	–	C1-355	C2-490	C2-490	–	–	–	–	–
	Kg	33.6	–	55.3	81.2	133.6	236.6	480	760	1050	1400	–	2330	3600	5200	–	–	–	–	–
电动 Electric Driving	H	–	–	–	–	554	600	652	761	771	831	921	943	1123	1218	1328	1815	1925	2164	2324
	H1	–	–	–	–	337	382	480	520	594	632	670	770	850	945	1055	1130	1240	1440	1660
	W	–	–	–	–	200	200	200	280	280	280	305	305	305	460	460	600	660	600	600
	型号	–	–	–	–	SMC-04 +H1BC	SMC-04 +H1BC	SMC-03 +H2BC	SMC-00 +H3BC	SMC-00 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-1 +H5BC	SMC-3 +H6BC	SMC-3 +H6BC	SMC-3 +H7BC	SMC-4 +H7BC	SMC-4 +H7BC	SMC-5 +H6BC	SMC-5 +H7BC
	Kg	–	–	–	–	154	240	495	793	1125	1610	1800	2410	3750	5540	7900	12500	15300	18100	31000

表格L栏中，RF表示突面法兰结构长度，BW表示焊接结构长度，RJ表示环连接形式结构长度。
Flange dimensions,butt weld dimensions refer to annex A.Column L in the above table,RF:Raised end:BW:Butt weld end,RJ:Ring joint end

固定式铸钢球阀

CAST STEEL TRUNNION TYPE BALL VALVE

主要外形尺寸及重量 Main Size of Outside & Weight

PN15.0MPa CLASS 900

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	750	800	900	1000	1200
NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	30	32	36	40	48
法兰Flange	L	368	419	381	457	610	737	838	965	1092	1130	1219	1321	1549	1780	2050	2050	2180	2600
对焊	L1	368	419	381	457	610	737	838	965	1092	1130	1219	1321	1549	1700	1780	1960	2100	2376
手动 Hand-Operated	H	217	241	295	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	W	650	650	650	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Kg	48	55	85	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
蜗轮蜗杆传动 Worm gearo perated	H	–	–	–	297	364	394	502	572	675	762	866	894	965	1210	1290	1360	1480	1630
	W	–	–	–	600	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000
	型号	–	–	–	B	–	C	D	D	DA	DB	DC	DD	DH	DH	DJ	DJ	DK	DK
	Kg	–	–	–	145	360	580	1010	1510	1450	2150	2820	4200	6800	10180	11820	18900	21500	47500
气动 Air-operating	H	519	–	728	842	1014	1120	1124	1374	1490	1615	1760	1760	1760	–	–	–	–	–
	H1	295	–	519	595	770	815	1004	1154	1210	1335	1410	1410	1410	–	–	–	–	–
	L1	287	–	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	–	–	–	–	–
	L2	287	–	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	–	–	–	–	–
	型号	AW17	–	AW17	AW20	AW20	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C2-490	C3-600	–	–	–	–	–
	Kg	340	–	520	760	1120	1420	1780	2050	2350	3150	3840	4580	6200	–	–	–	–	–
电动 Electric Driving	H	–	–	–	600	761	771	831	921	943	1123	1218	1328	1458	1904	1984	2054	2174	2274
	H1	–	–	–	382	520	594	632	670	770	850	945	1055	1135	1180	1260	1330	1450	1560
	W	–	–	–	200	280	280	280	305	305	305	400	400	600	600	600	600	600	600
	型号	–	–	–	SMC-04 +H1BC	SMC-00 +H3BC	SMC-00 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-1 +H5BC	SMC-3 +H6BC	SMC-3 +H6BC	SMC-4 +H7BC	SMC-4 +H7BC	SMC-5 +H7BC	SMC-5 +H7BC	SMC-5 +H7BC	SMC-5 +H7BC	SMC-5 +H7BC
	Kg	–	–	–	780	1110	1410	1820	2150	2400	3210	3950	4620	6320	10200	11000	17920	22500	47800

主要外形尺寸及重量 Main Size of Outside & Weight

PN25.0MPa CLASS 1500

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
法兰Flange	L	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	2043
对焊Butt Welding	L1	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	2043
手动 Hand-Operated	H	217	241	259	–	–	–	–	–	–	–	–	–	–
	W	650	650	650	–	–	–	–	–	–	–	–	–	–
	Kg	45	56	82	–	–	–	–	–	–	–	–	–	–
蜗轮蜗杆传动 Worm gearo perated	H	217	241	259	297	364	475	578	696	761	831	900	950	1080
	W	600	600	600	600	800	800	800	800	800	800	800	800	800
	型号	A	A	B	B	C	D	D	DA	DB	DC	DD	DH	DH
	Kg	50	72	97	198	480	820	1500	2250	2850	4070	6195	9075	14280
气动 Air-operating	H	519	728	842	1014	1120	1124	1374	1490	1615	1760	1760	1760	–
	H1	295	519	595	770	815	1004	1154	1210	1335	1410	1410	1410	–
	L1	287	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	–
	L2	287	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	–
	型号	AW17	AW17	AW17	AW20	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C2-429	C3-600	–
	Kg	345	425	560	820	1150	1480	1890	2150	2430	3220	3990	4950	–
电动 Electric Driving	H	–	–	652	761	771	831	921	943	1123	1218	1328	1458	–
	H1	–	–	480	520	594	632	670	770	850	945	1055	1135	–
	W	–	–	200	280	280	280	305	305	305	400	400	600	–
	型号	–	–	SMC-04 +H1BC	SMC-04 +H1BC	SMC-00 +H3BC	SMC-00 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-1 +H5BC	SMC-3 +H6BC	SMC-3 +H6BC	SMC-3 +H6BC	SMC-4 +H7BC
	Kg	–	–	625	810	1150	1450	1890	2165	2400	3280	4150	5120	–

表格L栏中，RF表示突面法兰结构长度，BW表示焊接结构长度，RJ表示环连接形式结构长度。
Flange dimensions,butt weld dimensions refer to annex A.Column L in the above table,RF:Raised end:BW:Butt weld end,RJ:Ring joint end

固定式锻钢球阀

FORGING STEEL TRUNNION TYPE BALL VALVE

设计标准 Design Construction

1. 设计标准：API 6D、GB/T12237
2. 结构长度：API 6D、ASME B16.10、GB/T12221
3. 法兰尺寸：ASME B16.5、ASME B16.47、GB/T9113
4. 试验和检验：API 598、JB/T9092

注：1. 系列阀门连接法兰端尺寸可根据用户要求设计制造。
2. DN＞1000（40"）阀门设计标准按《长输管线阀门技术条件》

1. Design Standard：API 6D、GB/T12237
2. Face to Face：API 6D、ASME B16.10、GB/T12221
3. Flanged size：ASME B16.5、ASME B16.47、GB/T9113
4. Test & Inspection：API 598、JB/T9092

Notes: 1.The sizes of serial valve connecting flange ends can be designed according to customer's requirement.
2.DN>1000(40"), the design standard is accordancewith《Specification of the length pipe valve》



产品型号 Product Model

Q(3、6、7、8、9)4(6)7F(Y、N、P)

产品性能规范 Products Performance Specification

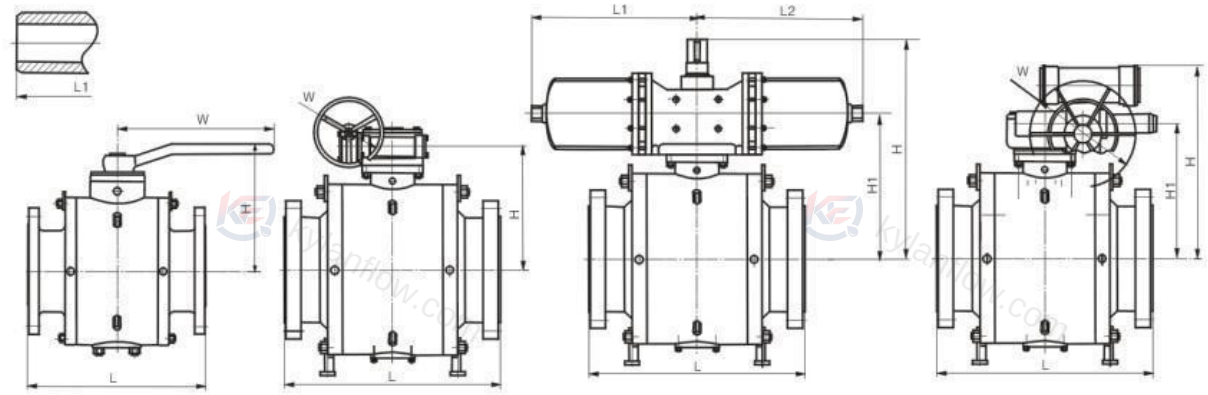
性能规范 Performance Specification		公称压力Nominal Pressure（MPa）					压力等级Pressure Grade（class）						
		1.6	2.5	4.0	6.4	10.0	150	300	400	600	900	1500	2500
试验压力 Testing Pressure (Mpa)	强度试验Shell test	2.4	3.75	6.0	9.6	15.0	2.93	7.58	10.0	15.0	22.5	37.5	63.0
	密封试验Seal test	1.76	2.75	4.4	7.04	11.0	2.07	5.52	7.31	11.03	16.5	27.5	46.2
	气压试验Air test	0.6MPa											
适用温度Applicable Temperature		−196℃~550℃											
适用介质 Applicable Medium	普通型 Ordinary type	水、蒸汽、石油、液化气、天然气等 Water, Steam, Petroleum, LPG, Natural gas etc.											

主要零件材料 Major Parts Material Form

序号 No.	零件名称 Part name	材质Material ASTM	序号 No.	零件名称 Part name	材质Material ASTM
1	O型圈*O*Ring	Viton	13	球体Ball	A105+ENP
2	密封圈Sealing ring	PTFE	14	衬套Bushing	PTFE&Nikelium
3	阀座*Seat	A105	15	上阀杆Stem	A182-F6a
4	弹簧Spring	Inconel X-750	16	垫片Gasket	柔性石墨+不锈钢 Flexible graphite+stainless steel
5	螺柱Bolt	A193-B7	17	阀盖Cover	A105
6	左右体Bonnet	A105	18	填料Packing	Graphite
7	注脂阀Grease injection valve	Assembled	19	支架Yoke	A216-WCB
8	垫片Gasket	柔性石墨+不锈钢 Flexible graphite+stainless steel	20	驱动装置Driving	Assembled
9	下阀杆Stem	柔性石墨+不锈钢 Flexible graphite+stainless steel	21	连接套Connection set	AISI C1045
10	垫片Gasket	A182-F6a	22	填料压盖Gland	A216-WCB
11	衬套Bushing	PTFE&Nikealium	23	定位销Stop pin	A276-410
12	阀体Body	A105	24	排污堵头Drain plug	A105

固定式锻钢球阀

FORGING STEEL TRUNNION TYPE BALL VALVE



手柄操作 Lever operator　蜗轮操作Gear operator　气动操作Pneumatic operator　电动操作Electric operator

主要外形尺寸及重量 Main Size of Outside & Weight

PN1.6MPa CLASS 150

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200
NPS	in	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48
法兰Flange	L	178	191	203	229	356	394	457	553	610	686	762	864	914	1067	1245	1372	1524	1721	1829	2180
对焊Butt Welding	L1	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1727	1930	1689	2100
手动 Hand-operated	H	130	142	191	200	226	242	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	W	230	350	400	450	750	750	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Kg	12	28	33	50	78	93	–	–	–	–	–	–	–	–	–	–	–	–	–	–
蜗轮传动 Worm gear operated	H	–	–	–	–	–	–	337	385	414	447	545	545	585	663	723	923	986	1061	1420	1530
	W	–	–	–	–	–	–	600	600	800	800	800	800	800	800	800	800	800	800	800	800
	Type	–	–	–	–	–	–	B	B	C	C	D	D	D	DA	DA	DB	DB	DC	DC	DD
	Kg	–	–	–	–	–	–	250	390	578	770	1100	1250	1800	2400	4500	6900	9700	1300	15000	23000
气动 Air-operating	H	269	379	389	479	552	666	769	824	897	937	1121	1161	1203	1145	1160	1460	1510	1610	–	–
	H1	174	248	258	322	395	457	560	615	653	691	816	856	898	915	930	1100	1150	1250	–	–
	L2	89	148	148	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	–	–
	L3	181	257	257	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	–	–
	Type	AG09	AG13	AG13	AW13	AW13	AW17	AW17	AW17	AW20	AW20	AW28	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C3-600	–	–
	Kg	32	42	53	100	125	157	265	410	595	795	1150	1295	1910	2400	4600	7100	10100	14200	–	–
电动 Electric Driving	H	–	–	–	–	–	559	710	744	851	859	959	999	965	1141	1233	1341	1666	1895	2114	2194
	H1	–	–	–	–	–	342	492	527	570	608	708	748	790	866	960	1068	1100	1210	1390	1470
	W	–	–	–	–	–	200	200	200	280	280	280	305	305	305	400	400	460	460	600	600
	Type	–	–	–	–	–	SMC-04 +H08C	SMC-04 +H08C	SMC-04 +H1BC	SMC-04 +H1BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-00 +H3BC	SMC-00 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-1 +H5BC	SMC-2 +H6BC	SMC-3 +H6BC	SMC-3 +H7BC	SMC-4 +H7BC
	Kg	–	–	–	–	–	152	245	425	610	800	1180	1300	1200	2500	4710	7300	10200	15200	16800	24000

固定式锻钢球阀

FORGING STEEL TRUNNION TYPE BALL VALVE

主要外形尺寸及重量 Main Size of Outside & Weight

PN2.5、4.0MPa CLASS 300

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200
NPS	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48
法兰Flange	L	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346	1524	1727	2083	2050	2180
对焊	L1	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1727	2083	1960	2020
手动 Hand-operated	H	136	164	191	223	240	253	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	W	240	400	400	600	750	800	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Kg	32	37	58	110	157	180	–	–	–	–	–	–	–	–	–	–	–	–	–	–
蜗轮传动 Worm gear operated	H	–	–	–	–	–	–	337	385	414	447	545	545	585	663	723	923	986	1061	1420	1530
	W	–	–	–	–	–	–	600	600	800	800	800	800	800	800	800	800	800	800	800	800
	Type	–	–	–	–	–	–	B	B	C	C	D	D	DA	DB	DC	DC	DD	DD	DD	DD
	Kg	–	–	–	–	–	–	280	410	760	1100	1600	1700	2300	3500	6000	8000	11000	14000	17000	25000
气动 Air-operating	H	360	388	476	418	621	634	701	771	814	913	1013	1148	1190	1316	1410	1518	1740	1850	–	–
	H1	229	257	319	361	412	425	492	527	570	608	708	748	790	886	960	1068	1140	1250	–	–
	L2	148	148	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	1960	–	–
	L3	181	257	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	1960	–	–
	Type	AG13	AG13	AW13	AW13	AW17	AW17	AW17	AW20	AW20	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C2-490	C3-600	C3-600	–	–
	Kg	45	70	95	153	260	350	450	750	1140	1580	2550	2300	3100	4400	6000	8120	11200	14500	–	–
电动 Electric Driving	H	–	–	–	–	–	559	710	744	851	859	959	999	963	1141	1233	1341	1696	1925	2114	2194
	H1	–	–	–	–	–	342	492	527	570	608	708	748	790	866	960	1068	1100	1210	1390	1470
	W	–	–	–	–	–	200	200	200	280	280	280	305	305	305	400	400	460	460	600	600
	Type	–	–	–	–	–	SMC-04 +H0BC	SMC-04 +H1BC	SMC-04 +H1BC	SMC-04 +H2BC	SMC-03 +H2BC	SMC-03 +H3BC	SMC-00 +H3BC	SMC-00 +H4BC	SMC-0 +H4BC	SMC-0 +H5BC	SMC-1 +H6BC	SMC-2 +H6BC	SMC-3 +H6BC	SMC-3 +H7BC	SMC-4 +H7BC
	Kg	–	–	–	–	–	380	460	780	1150	1620	2160	2400	3120	4500	6100	8210	11400	14800	17500	26000

主要外形尺寸及重量 Main Size of Outside & Weight

PN10.0MPa CLASS 600

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200
NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48
法兰Flange	L	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1549	1778	2083	2337	2100	2400
对焊	L1	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1549	1778	2083	2337	2050	2180
手动 Hand-operated	H	136	164	191	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	W	500	650	650	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Kg	35	42	66	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
蜗轮传动 Worm gear operated	H	–	–	–	244	309	361	412	475	502	533	636	675	759	836	915	987	1212	1460	1600
	W	–	–	–	600	600	800	800	800	800	800	800	800	800	800	800	800	800	1000	1000
	Type	–	–	–	B	C	C	D	D	DA	DA	DB	DC	DD	DH	DH	DH	DH	DJ	DJ
	Kg	–	–	–	180	270	500	780	1100	1200	1600	2160	2700	5000	7000	9800	14000	19000	22000	32000
气动 Air-operating	H	269	–	519	636	728	839	1014	1120	1224	1374	–	1490	1615	1760	–	–	–	–	–
	H1	209	–	295	479	519	595	770	810	1004	1154	–	1210	1335	1410	–	–	–	–	–
	L2	148	–	287	287	378	530	530	680	1445	1445	–	1665	1665	1960	–	–	–	–	–
	L3	257	–	287	287	378	530	530	680	1445	1445	–	1665	1665	1960	–	–	–	–	–
	Type	AG13	–	AW13	AW13	AW17	AW20	AW20	AW28	C1-355	C1-355	–	C2-490	C2-490	C3-600	–	–	–	–	–
	Kg	60	–	112	196	380	585	760	1190	1650	2550	–	3200	4520	6350	–	–	–	–	–
电动 Electric Driving	H	–	–	–	–	527	533	653	652	801	784	809	948	1038	1253	1473	1287	1512	2114	2254
	H1	–	–	–	–	309	361	412	475	502	533	636	675	765	980	1150	987	1212	1390	1530
	W	–	–	–	–	200	200	280	280	280	305	305	305	400	400	600	600	600	600	600
	Type	–	–	–	–	SMC-04 +H1BC	SMC-03 +H2BC	SMC-00 +H3BC	SMC-00 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-1 +H5BC	SMC-3 +H6BC	SMC-3 +H6BC	SMC-4 +H7BC	SMC-4 +H7BC	SMC-4 +H7BC	SMC-4 +H7BC	SMC-5 +H7BC	SMC-5 +H7BC
	Kg	–	–	–	–	410	480	860	1320	1750	2280	2620	3350	4720	6540	8800	14500	22000	23500	33500

固定式锻钢球阀

FORGED STEEL TRUNNION TYPE BALL VALVE

主要外形尺寸及重量 Main Size of Outside & Weight

PN15.0MPa CLASS 900

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	750	800	900	1000	1200
NPS	in	2	2 1/2	3	4	6		10	12	14	16	18	20	24	30	32	36	40	48
法兰Flange	L	368	419	381	457	610	737	838	965	1092	1130	1219	1321	1549	1780	2050	2050	2180	2600
对焊	L1	368	419	381	457	610	737	838	965	1092	1130	1219	1321	1549	1700	1780	1960	2100	2376
手动 Hand-operated	H	148	191	216	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	W	650	650	650	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Kg	50	55	80	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
蜗轮传动 Worm gear operated	H	–	–	–	270	384	435	518	657	693	762	866	894	965	1160	1240	1310	1420	1530
	W	–	–	–	600	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000
	Type	–	–	–	B	–	C	D	D	DA	DB	DC	DD	DH	DH	DJ	DJ	DK	DK
	Kg	–	–	–	150	360	620	1100	1600	1850	2200	2800	4250	7000	12500	14500	18000	22000	32000
气动 Air-operating	H	519	–	728	842	1014	1120	1124	13747	1490	1615	1760	1760	1760	–	–	–	–	–
	H1	295	–	519	595	770	815	1004	1154	1210	1335	1410	1410	1410	–	–	–	–	–
	L2	287	–	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	–	–	–	–	–
	L3	287	–	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	–	–	–	–	–
	Type	AW17	–	AW17	AW20	AW20	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C2-490	C3-600	–	–	–	–	–
	Kg	80	–	145	225	380	700	1200	1750	1900	2300	2900	4350	8100	–	–	–	–	–
电动 Electric Driving	H	–	–	–	418	625	612	817	908	866	1035	1139	1167	1279	1854	1934	2004	2114	2224
	H1	–	–	–	270	384	435	518	657	693	762	866	894	956	1130	1210	1280	1390	1500
	W	–	–	–	200	280	280	280	305	305	305	400	400	600	600	600	600	600	600
	Type	–	–	–	SMC-04 +H1BC	SMC-00 +H3BC	SMC-00 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-1 +H5BC	SMC-3 +H6BC	SMC-3 +H6BC	SMC-4 +H7BC	SMC-4 +H7BC	SMC-5 +H7BC	SMC-5 +H7BC	SMC-5 +H7BC	SMC-5 +H7BC	SMC-5 +H7BC
	Kg	–	–	–	240	390	710	1300	1780	2000	2410	3110	4420	8250	13200	16000	19500	23500	33100

主要外形尺寸及重量 Main Size of Outside & Weight

PN25.0MPa CLASS 1500

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
法兰Flange	L	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	2043
对焊 Butt Welding	L1	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	2043
手动 Hand-operated	H	175	191	216	–	–	–	–	–	–	–	–	–	–
	W	650	650	750	–	–	–	–	–	–	–	–	–	–
	Kg	60	70	85	–	–	–	–	–	–	–	–	–	–
蜗轮传动 Worm gear operated	H	175	91	216	247	329	492	428	640	670	700	755	830	952
	W	400	400	600	600	800	800	800	800	800	800	800	800	800
	Type	A	A	B	B	C	D	D	DA	DB	DC	DD	DH	DH
	Kg	65	82	100	210	500	850	1600	2300	2950	4200	5000	5600	2200
气动 Air-operating	H	519	728	842	1014	1120	1124	1374	1490	1615	1760	1760	1760	–
	H1	295	519	595	770	815	1004	1154	1210	1335	1410	1410	1410	–
	L2	287	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	–
	L3	287	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	–
	Type	AW17	AW17	AW17	AW20	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C2-429	C3-600	–
	Kg	90	135	155	280	510	900	1710	2350	3100	4410	5100	6100	–
电动 Electric Driving	H	–	–	388	488	506	591	679	813	943	973	1048	1153	–
	H1	–	–	216	247	329	392	428	640	670	700	755	830	–
	W			200	280	280	280	305	305	305	400	400	600	
	Type	–	–	SMC-04 +H1BC	SMC-04 +H1BC	SMC-00 +H3BC	SMC-00 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-1 +H5BC	SMC-3 +H6BC	SMC-3 +H6BC	SMC-3 +H6BC	SMC-4 +H7BC
	Kg	–	–	160	280	520	950	1800	2400	3300	4510	6200	7200	–

低温球阀

LOW TEMPERATURE BALL VALVE

用途 Applicability

低温球阀主要适用于乙烯、液化天然气等化工装置上，输出的液态低温介质如乙烯、液氧、液氢等。这类介质不但易燃易爆，而且在升温时要气化，气化时，体积膨胀数百倍。而且这些介质渗透力强，易泄漏，加工制造比较困难。

Low temperature ball valves are mainly used in the chemical equipment of ethylene and LNG etc. to handle low temperature liquid medium like ethylene,liquid oxygen,liquid hydrogen and so on.These types of inflammable and explosive medium can be volumetrically expanded by several hundred times when being gasified under temperature rise,and are difficult to manufacture due to their highly penetrative and leaky properties.

结构特性 Structural Properties

1. 承压件的材料能承受介质温度的变化而引起的膨胀、收缩，密封部位的结构在温度变化时不会产生永久的变形。用于-100℃以下工况时，阀门零件在精加工前应进行深冷处理，即将零件浸放在液氧箱中进行冷却，当零件温度达到-196℃时，开始温度1~2h，然后取出箱外自然处理到常 温，重复循环2次。

2. 阀盖采用长颈结构，其目的保护填料函的功能，使填料函处于离低温较远的位置，保证填料的密封效果。同时还可以缠绕保冷材料，防止冷能损失。长颈的颈长可根据使用温度和保冷材料的厚度来选择不同的长度。当填料密封效果降低时，可以从填料函的 压差，提高密封性能。

3. 使用温度低于-100℃时，阀杆材料经过镀铬或氮化处理，提高阀杆表面 硬度，提高填料密封的可靠性。

4. 低温球阀具有防止异常升压结构，由于低温阀门介质气化后，其体积急 剧膨胀，压力会异常升高，当阀门中腔压力升高时，阀门中腔和进口侧 连通，或在阀门进口端安装泄压阀，保证阀门安全使用。

5. 低温球阀用的垫片具有在常温下、低温状态及温度变化下能可靠密封性和复原性。

1. The materials of compression parts can endure the expansion and shrinkage resulted from the temperature variation of medium, and seal structure is away from permanent deformation under temperature changes.To work under the conditions below-100℃, the parts of valve shall be subject to deep cooling treatment before precision machining.Namely,have the parts cooled in liquid nitrogen box,when the temperature of parts reaches-196℃,keep the temperature for1-2h,then take them out to have them to the normal temperature naturally,and do in this way twice.

2. Bonnet is extended for the purpose to protect the function of packing box,making packing box somewhat away from low temperature to ensure good seal of packing.Besides,it can be wound with cold insulating materials to prevent loss of cold energy. The length of neck depends on service temperature and the thickness of cold insulating material.When the effect of packing seal turns lower, fill in grease to form up oil seal layer from the middle of packing box.see combined packing the reliability of seal.

3. To serve a temperature below-100℃,the material of valve stem shall be treated with chromeplating or nitriding to enhance the surface hardness of valve stem and the sealing reliability of packing.

4. Low temperature ball valve takes a structure to avoid abnormal pressure rise. As the medium in low temperature valve is gasified and rapidly expanded in volume, the pressure will goes extremely high. When the pressure in the middle cavity of valve rises, the middle cavity and the inlet side can be communicated,or a relief can be mounted at the inlet side of valve,thus to ensure the safe use of valves.

5. The gaskets used on low temperature ball valves may function reliable seal and restoration under normal and low temperature or under the conditions of temperature changes.

主要材料 Main Material

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

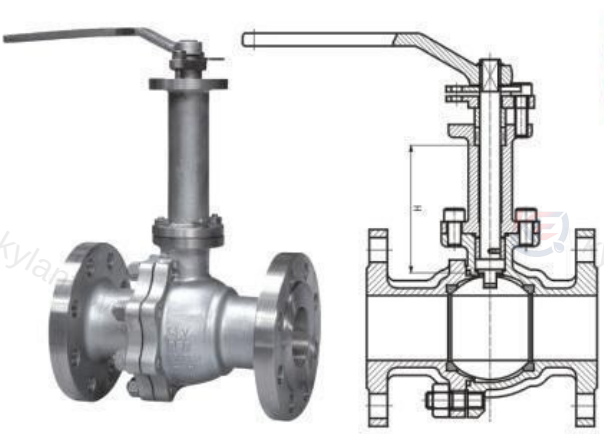
低温球阀

LOW TEMPERATURE BALL VALVE

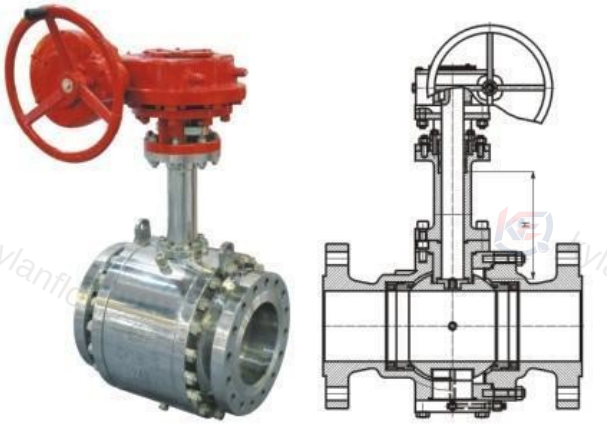
低温球阀技术规范 low Temperature Ball Valve Technical Specifications

设计和制造：API 6D,ASME B16.34(BS5351),API 608,MSS-SP-72
结构长度尺寸：ASME B16.10,API 6D
法兰连接尺寸：ASME B16.5
对焊端尺寸：ASME B16.25
检查和试验：API 598,API 6D
防火设计：API 607/6FA

Design and Manufacture: API 6D,ASME B16.34(BS5351),API 608,MSS-SP-72
Face to Face Dimension: ASME B16.10,API 6D
Flange Connection Dimension: ASME B16.5
BW Connection Dimension: ASME B16.25
Test and Inspection: API 598,API 6D
Fire-Safe Design: API 607/6FA



QF1041931B1~QF1041931B6



QF1347931BⅡ1~QF1347931BⅡ6

主要外形尺寸 Main Dimensions

CLASS 150

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

CLASS 300

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

"*" 低温加长部分可以按用户要求设计。
"*" the extension part for low temeperature service can be designed acc. to clients requirement.

三通球阀

THREE-WAY BALL VALVE

球阀功能 Function

三通球阀适用于在-46℃~+200℃温度下对腐蚀或非腐蚀性液体、气体、粉末介质实现切换、混合和分流；开闭过程中，流路通畅减小了压力损失，操作省力、维修方便；五种流向(见右图：L型一种、T型四种)类型满足不同工艺要求，可进行手、气动、电动控制。

Three-way ball valves are used to switch over, mix and divide the flow of corrosive or non corrosive liquid, gas or powdery mediums. Upon opening and closing, the smooth flow channel effects less pressure loss, making operation quite labor-saving and maintenance fairly easy. The five types of flow direction (figure on the right, 1 for L-shaped and 4 for T-shaped)to meet different tech-nological requirements. It can be hand, air and electrically operated.

结构特点 Structural Features

1. 阀座可设计成四面座浮动球和固定球，流态稳定，密封可靠；
2. 结构可设计成侧装式和顶装式，双向密封设计；流向切换无串流；
3. 防飞出阀杆设计；
4. 防静电设计；
5. 两位（开合关位置）锁定设计。

1. Valve seat can be designed into four-side seated float ball and fixed ball, with smooth fluid state and reliable seal;
2. The structure can be designed into side entry type and top entry type, with two way seal, no series flow upon switch over of flow direction;
3. Anti-blowout design of valve stem;
4. Antistatic design;
5. Two position (ON and OFF) lockup design.

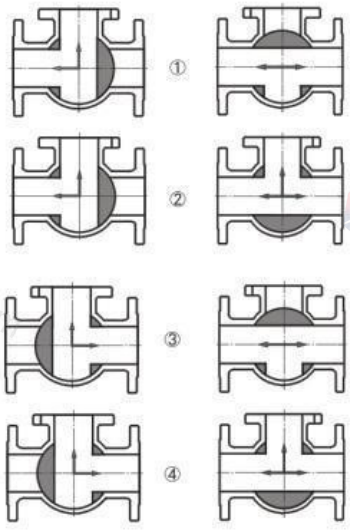


三通球阀制造规范
3-Way Ball Valve Manufacture Norms

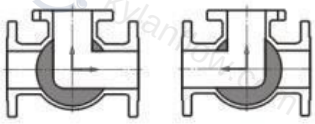
标准Standards	API系列API Series	DIN系列 Series
基本设计规范 Design standards	ANSI B 16.34	
压力温度等级 Pressure/Temperature rating	ANSI B 16.34	DIN3356
结构长度 Face to face dimensions	ASME B 16.10	
连接法兰Flange ends	ASME B 16.5 DIN 2543-2551	
检验与试验 Inspection and test	API598	DIN3230

主要零部件 Main Parts Materials

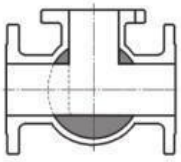
序号No.	零件名称Name of part	序号No.	零件名称Name of part
1	阀体Body	10	阀座圈Seat retainer
2	球体Ball	11	阀杆Stem
3	O型圈O-ring	12	填料Stem packing
4	法兰盘Adapter	13	填料压盖Packing gland
5	密封圈Seat ring	14	限位螺钉Stop screw
6	垫片Gasket	15	限位片Stop plate
7	螺栓Bolt	16	紧定螺钉Set screw
8	螺母Nut	17	手柄Lever
9	阀盖Bonnet		



T 型通口 "T" type Ported

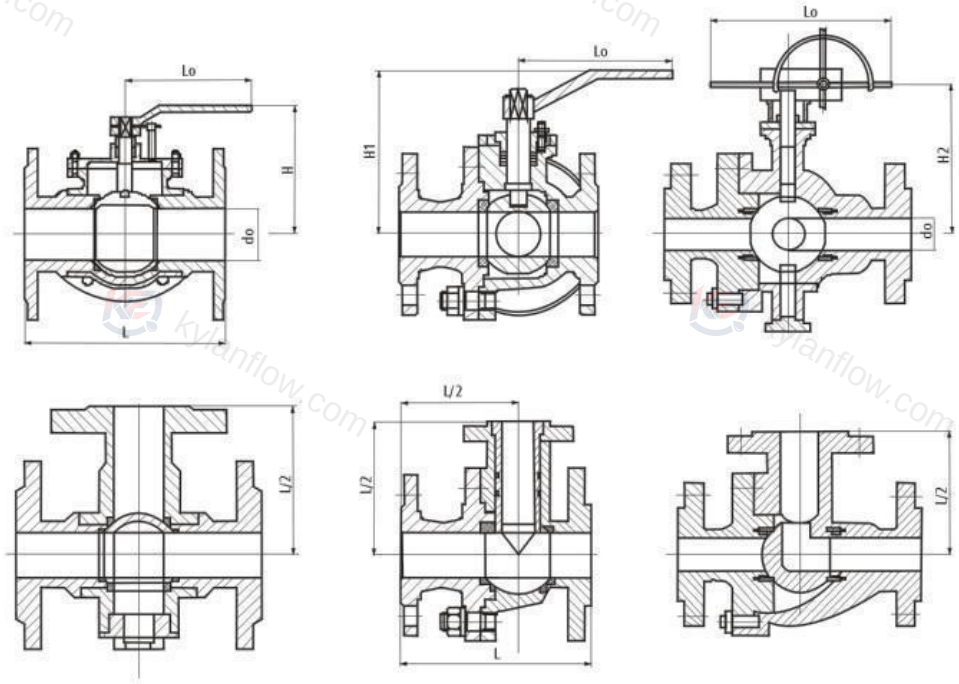


L 型通口 "L" type Ported



实线：T型通口 Real line:"T"type ported
虚线：L型通口 Broken line:"L"type ported

三通球阀
THREE-WAY BALL VALVE



主要外形尺寸及重量/Main Size of Outside & Weight

PN1.6MPa CLASS 150

DN	NPS	L	do	H	H1	H2	Lo	W	重量 Weight(kg)
15	1/2	140	13	90	70	/	160	/	3
20	3/4	150	15	106	86	/	230	/	4
25	1	160	25	109	88	/	230	/	6
32	11/4	/	32	125	106	/	400	/	10
40	11/2	210	38	149	132	/	400	/	14
50	2	220	51	154	137	/	400	/	20
65	21/2	250	64	189	162	/	700	/	25
80	3	260	76	198	170	/	700	/	32
100	4	330	102	254	229	/	1050	/	45
125	5	430	127	273	247	/	1050	/	/
150	6	510	152	/	/	314	/	450	/
200	8	580	203	/	/	430	/	600	/

主要外形尺寸及重量 Main Size of Outside & Weight

PN2.5、4.0MPa CLASS 300

DN	NPS	L	do	H	H1	H2	Lo	W	重量Weight(kg)	
									PN2.5	PN4.0
15	1/2	140	13	90	70	/	160	/	3	3
20	3/4	150	15	106	86	/	230	/	4	4
25	1	160	25	109	88	/	230	/	6.5	6.5
32	11/4	/	32	125	106	/	400	/	11	11
40	11/2	210	38	149	132	/	400	/	15	15
50	2	220	51	154	137	/	400	/	21.5	21.5
65	21/2	250	64	189	162	/	700	/	/	/
80	3	260	76	198	170	/	700	/	35	35
100	4	330	102	254	229	/	1050	/	49	49
125	5	430	127	273	247	/	1050	/	/	/
150	6	510	152	/	/	314	/	450	/	/
200	8	580	203	/	/	430	/	600	/	/

夹套保温球阀

JACKET INSULATION BALL VALVE

用途 Applicability

夹套球阀主要适用于石油、化工、冶金、电力等各类系统中，以输送常温下会凝固的高黏度介质。其球阀的夹套焊接在阀门的两端密封之间，阀门的侧面和底部设有夹套的标准连接口。由于增加了夹套，此种阀门的端部连接尺寸比同一规格的连接尺寸大一到两个规格，阀门的结构长度与同一规格的阀门相同。阀门的端部连接型式有法兰和对夹两种。夹套中可自由的通过蒸汽或其他热保温介质，确保粘稠的介质顺畅的通过阀门。

Jacketed ball valves are mainly used in the industries of petroleum, chemicals, pharmaceuticals, metallurgy, electric power and etc. to handle high viscosity medium that can be solidified at ordinary temperature. The jacket of ball valve is welded between the seal faces at both ends of the valve. On the side and at the bottom of the valve there are standard connection ports for jacket. Provided with a jacket, the types of end connection may be flanged and wafer. Steam or other heat insulating mediums may freely pass through the jacket, to ensure pasty mediums smoothy through the valve.

结构特点 Structural Features

1. 既能防止管路中粘稠的介质凝固，又能降低管路中低温介质的热量损失。
2. 采用碳钢钢管焊接夹套比铸造的更加耐压、牢固和可靠。
3. 由于阀门的通径与管道内径一致，介质呈直线流动，流阻小，最适用于　易凝固，高粘性液体介质。
4. 球阀阀体采用整体（一片式）结构，体积小，其重量比同类球阀的体　积小、重量轻。

1. To prevent the pasty medium in pipeline from being solidified and to lower the heat loss of the low-temperature medium in pipeline.
2. The carbon steel pipe welded jackets are more over pressure resistance and reliable than cast ones.
3. Due to the conformity of valve diameter and pipe inside diameter, medium makes linear flow of low resistance, most suitable for easily solidified and highly viscous liquid mediums.
4. One-piece structure of ball valve body, small volume and light weight compared with their counterparts.

夹套球阀制造规范/Wafer Ball Valve Manufacture Norms

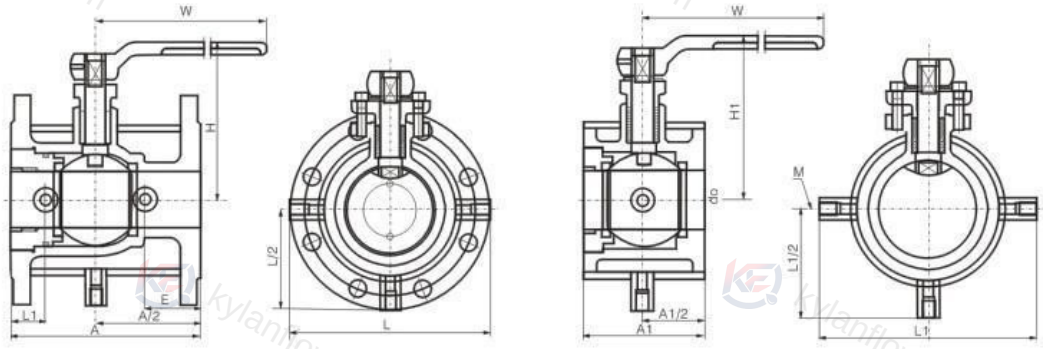
标准 Standards	API系列 API series
基本设计规范 Design codes	ANSI B16.34
压力温度等级Pressure/temperature rating	ANSI B16.34
结构长度Face to face dimensions	ASME B16.10
连接法兰 Flange ends	ASME B16.5
检验与实验 Inspection and test	API598

主要零部件材料/Main Parts Materials

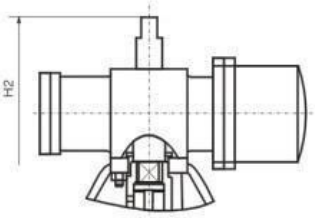
序号No.	零件名称 Part Name	材料Materials ASTM
1	阀体Body	A216 WCB
2	连接口Ends sock	A105
3	夹套Jacketed	A105
4	锁紧螺母Locking nut	A105
5	O型圈O-ring	氟橡胶 Viton
6	密封圈Seat ring	对位聚苯、尼龙PTFE/RPTFE/NYLON/PEEK
7	球体Ball	A105+ENP/F304
8	阀杆Stem	A182 F6a
9	垫片Gasket	PTFE+SS
10	填料垫Packing Seat	A182 F6a
11	填料Packing	柔性石墨Flexible graphite/PTFE
12	填料压盖 Packing gland	A216 WCB
13	螺钉Screw	A193 B7
14	定位片Stop pland	Q235+Zn
15	挡圈Snap ring	65Mn
16	螺钉Screw	A 193 B7
17	手柄Lever	Q235+Zn

夹套保温球阀

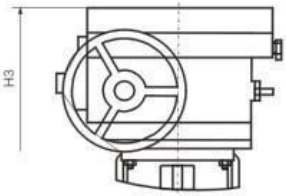
JACKET INSULATION BALL VALVE







气动 Pneumatic actuated



电动 Electric actuated

主要外形尺寸及重量/Main Size of Outside & Weight

PN1.0、1.6MPa CLASS150

DN	NPS	A	A1	do	H	H1	H2	H3	W	M	L	L1	E	法兰规格 Flange size	重量Weight(kg) 手动Lever(PN16)
15	1/2	110	50	15	63	101	126	/	130	ZG3/4	147	110	58.5	DN40(11/2)	7.04
20	3/4	117	55	20	82	101	126	/	160	ZG3/4	147	117	58.5	DN40(11/2)	7.74
25	1	127	60	25	85	106	137	/	160	ZG3/4	156	127	63.5	DN50(2)	10.7
40	11/2	165	80	40	100	125	169	/	230	ZG3/4	181	165	62.5	DN65(21/2)	14.5
50	2	178	90	51	153	135	179	576	230	ZG3/4	218	178	68	DN80(3)	17.9
80	3	229	120	76	195	217	258	643	400	ZG3/4	275	229	82	DN150(6)	37.3
100	4	254	140	102	213	265	322	715	700	ZG3/4	300	254	83	DN200(8)	56
150	6	292	160	152	235	355	415	848	1100	ZG1	403	292	95	DN250(10)	93
200	8	330	180	203	342	410	527	903	1500	ZG1	492	330	100	DN300(12)	160

主要外形尺寸及重量/Main Size of Outside & Weight

PN2.5/4.0MPa CLASS300

DN	NPS	A	A1	do	H	H1	H2	H3	W	M	L	L1	E	法兰规格 Flange size	重量Weight(kg) 手动Lever(PN40)
15	1/2	110	50	15	63	101	126	/	130	ZG3/4	147	110	58.5	DN40(11/2)	7.24
20	3/4	117	55	20	82	101	126	/	160	ZG3/4	147	117	58.5	DN40(11/2)	8.24
25	1	127	60	25	85	106	137	/	160	ZG3/4	156	127	63.5	DN50(2)	11.5
40	11/2	165	80	40	100	125	169	/	230	ZG3/4	181	165	62.5	DN65(21/2)	18.4
50	2	178	90	51	153	135	179	576	230	ZG3/4	218	178	68	DN80(3)	25.1
80	3	229	120	76	195	217	258	643	400	ZG3/4	275	229	82	DN150(6)	55.4
100	4	254	140	102	213	265	322	715	700	ZG3/4	300	254	83	DN200(8)	76.4
150	6	292	160	152	235	355	415	848	1100	ZG1	403	292	95	DN250(10)	118
200	8	330	180	203	342	410	527	903	1500	ZG1	492	330	100	DN300(12)	200