



TRUNNION MOUNTED BALL VALVES 固定球阀



Technical Data 技术参数

Size公称尺寸：NPS2 ~ 60、DN50 ~ 1500

Pressure Ratings压力等级：Class150 ~ 1500、PN16 ~ 100

Body Materials 阀体材料：ASTM: WCB(A105)、CF8 (304)、CF3 (304L)、CF8M (316)
CF3M (316L)

DIN : GS-C25(St50-2)、1.4308/1.4301、1.4306、1.4408(1.4401)、(1.4404)

Design Standard设计标准：DIN3356、API 6D、ASME B16.34

Face to Face结构长度：DIN EN 558、ASME B16.10

Flanged Ends法兰端：DIN EN 1092、ASME B16.5

Test and Inspection试验和检验：ISO5208、DIN3230、API 6D、API598

Fire-safe Design 防火设计：ISO 10497、API 607、API 6FA

Notes: The sizes of serial valve flange dimension can be designed according to customer's requirement.
注：系列阀门法兰端可根据客户要求设计制造。

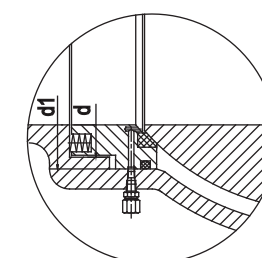
Applications 应用

The series of the fixed ball valve is widely used in such fields as petroleum refining, chemical industry, papermaking, pharmaceutical industry, food industry, water power, electric power, municipal engineering, steel, etc. Among them the sulphur-resistance serial ball valve is especially applicable for Natural Gas Long-Distance Transportation features containing sulphurate hydrogen medium, many impurity and serious corroding.

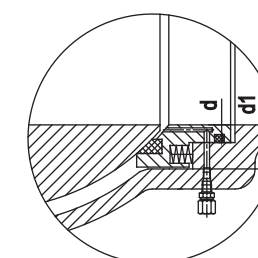
系列固定球阀被广泛应用于石油炼制、化工、造纸、制药、食品、水力、电力、市政、钢铁等行业。其中抗硫系列球阀特别适用于含硫化氢介质、杂质多、腐蚀严重的天然气长距离运输管线。

Trunnion Ball Valves Design Feature 固定球阀特点

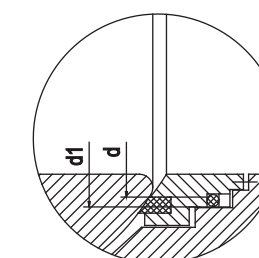
• Sealing construction of valve seat 阀座密封结构



Double-block-and-bleed
双截断双排放



Bi-directional sealing
双向密封



Both seats bi-directional
双阀座双向密封

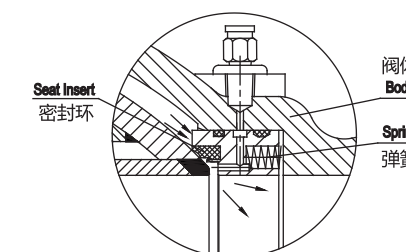
Trunnion mounted ball valve has all kinds of sealing construction. Our company produce Trunnion mounted ball valve as API6D designed, according to different working condition with different sealing construction.

固定球阀有各种各样的密封结构。我们公司是根据API6D设计生产固定球阀的，按照不同的工况采用不同的密封结构。

• Self-Relieving construction 自动泄压结构

When an abnormal rising of pressure appears in the internal body cavity, the single sealed-structure takes on the function of automatic pressure relieving, while the double-sealed structure can finish the job through an attached pressure-reliving device to the valve body.

当阀腔内压力异常升高时，单密封结构具有自动泄压的功能，而双密封结构可通过阀体上安装泄压装置完成此功能。

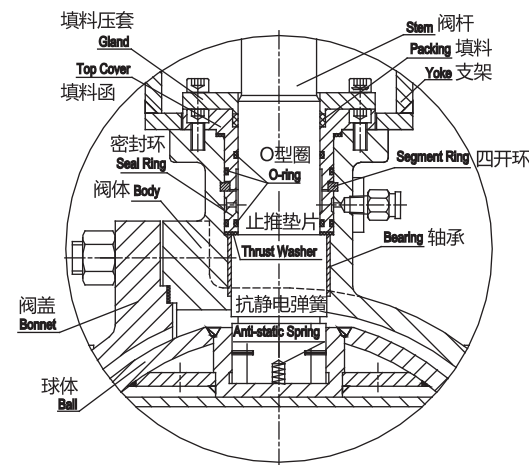




● Anti-Static Device 抗静电装置

Anti-static device is a standard feature of KihSCO ball valve. A spring-loaded pin assures the electrical continuity, between ball, stem and body, so as to avoid sparks during turning of the stem to open and close the valve, which could be dangerous in case of hazardous area installation.

抗静电装置是旗胜球阀的标准设计。阀杆上装有弹簧接地塞钉，使球体，阀杆，阀体之间相接触，形成导电路路，可将电荷转移，从而避免阀门开关时摩擦产生静电积聚或流体冲击阀体内腔产生静电积聚。这种静电积聚对一些危险区域内的管线来说是极其危险的。



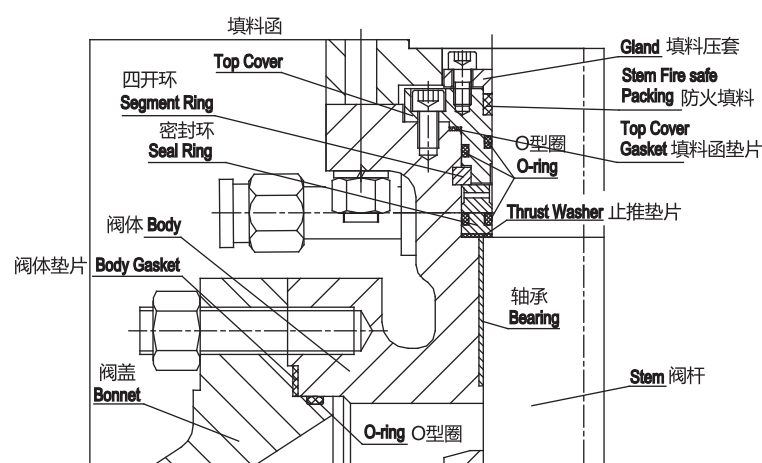
● Anti Blow-out Stem 阀杆防爆设计

The stem is made separately from the ball; The lower end of the stem is designed with an integral collar to be blow-out proof.

阀杆与球体是独立的，阀杆靠近球的一端设计成整体T形结构，压盖法兰可挡住该T形阀杆，避免内腔压力泄出。

● Fire Safe Design 防火设计

● External Leakage Prevention 防止外漏



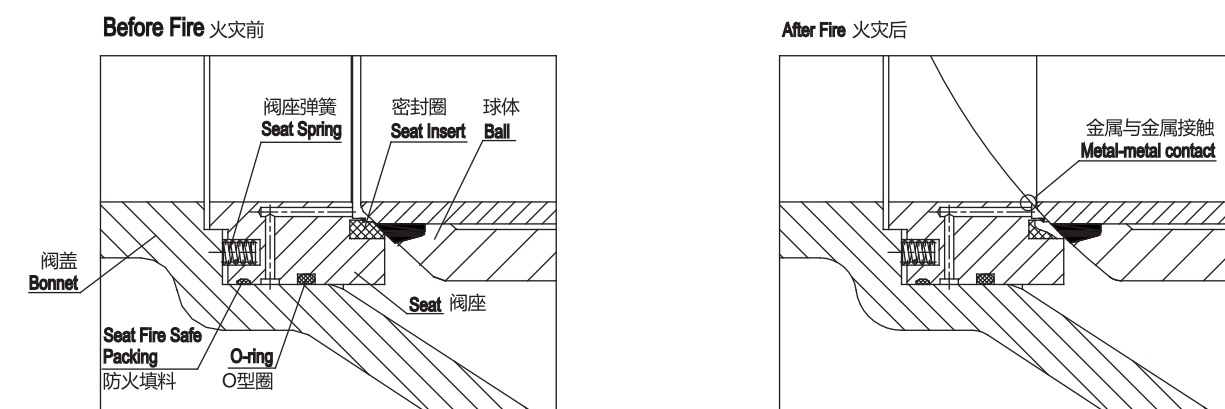
Leakage from the valve stem area is prevented by double sealing with double O-rings and gland gasket. Leakage through the valve body joint is also blocked by double sealing with O-ring and body gasket. After a fire has deteriorated O-rings, gland gasket, body gasket and stem fire safe packing are the measure that prevents fluid external leakage.

在正常情况下，双O形圈加压板垫片石墨垫片的设计可防止阀杆处的泄露。O形圈加阀体石墨垫片也保证了阀体，阀盖连接部位的密封。当火灾发生时，O形圈因熔化而失效，此时压盖石墨垫片，阀体石墨垫片和阀杆石墨填料将承担防止流体外泄露功能。

● Internal Leakage Prevention 防止内漏

When non-metal materials such as O-ring, seat insert and spacer are decomposed or deteriorated by fire, the edge of the metal seat preloaded by the seat spring comes into contact with ball to shut off the line fluid to minimize internal leakage through the valve bore.

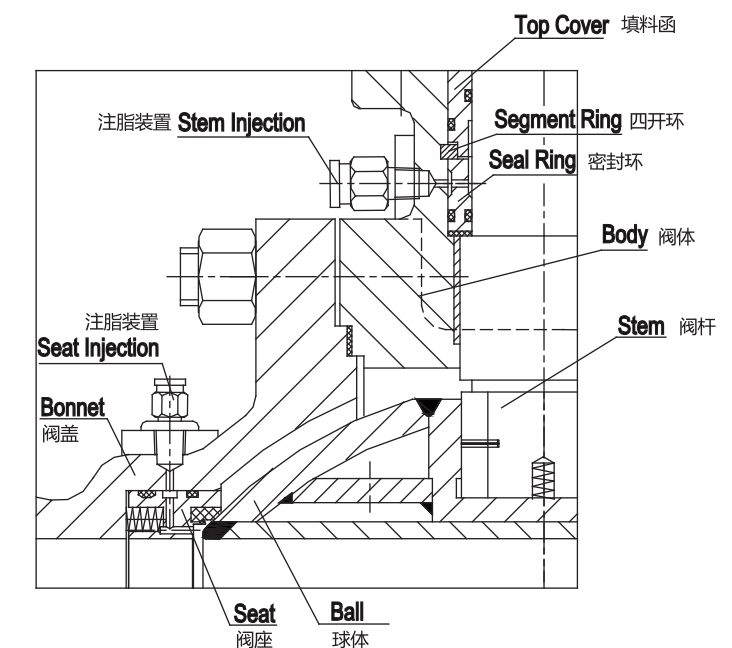
火灾发生时，当非金属材料如O形圈，阀座密封圈和挡圈被分解或熔化后，则金属阀座边线在弹簧预紧力作用下将推向球体接触而阻断管线流体，最大程度减小阀门通道中的内漏。



● Emergency Sealant Injection System 紧急注脂装置

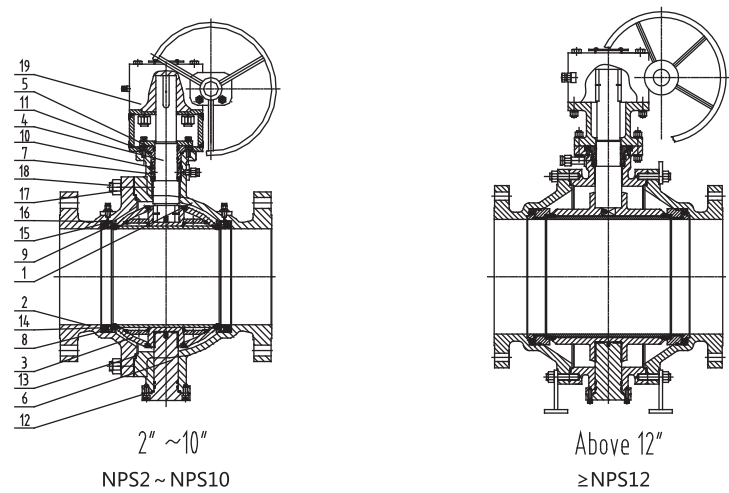
For 6 inch and larger KihSCO Trunnion mounted ball valves will be installed with a sealant injection fittings on both stem and seats. When the sealing materials (seat sealing or stem o-ring) are damaged or decomposed by fire or other accidental causes, leakage from the seat and stem can be prevented by injection of sealant into these fittings. Fittings also internally installed a second check valve to provide backup sealing.

NPS6和NPS6以上的旗胜固定球阀，阀杆和阀座上均装有注射密封脂装置。当密封材料（阀座密封圈或O形圈）被火灾或其他意外事故破坏或分解时，向该注射器注射密封胶可阻止源自阀杆和阀座的泄露。该装置内设一道止回阀起后备密封作用。





CAST STEEL TRUNNION MOUNTED BALL VALVES
铸钢固定球阀

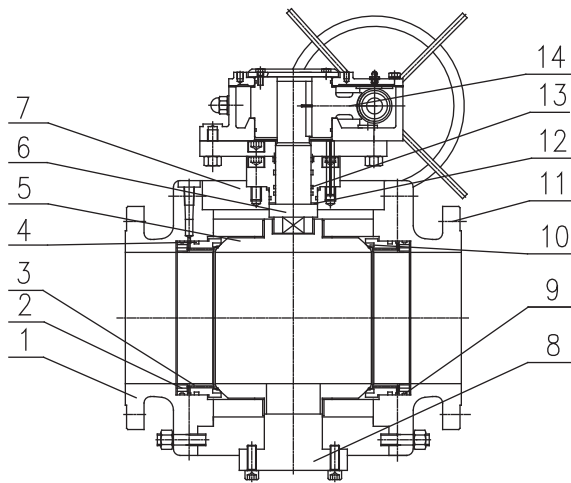


Material Specifications 材料规范

NO. 序号	Parts零件名称	Materials材料			
		Carbon Steel碳钢		Stainless Steel不锈钢	
		DIN	ASTM	DIN	ASTM
1	Body 阀体	GS-C25	A216 WCB	1.4408	A351 CF8M
2	Bonnet 阀盖	GS-C25	A216 WCB	1.4408	A351 CF8M
3	Ball 球体	A105+ENP	A105+ENP	1.4401	A182 F316
4	Stem 阀杆	X20 Cr13	A182 F6a	1.4401	A182 F316
5	Top Cover 填料函	St50-2	A105	1.4401	A182 F304
6	Bottom Cover下轴	St50-2	A105	1.4401	A182 F316
7	Seal Ring 密封环	St50-2	A105	1.4301	A182 F304
8	Seat 阀座	St50-2+ENP	A105+ENP	1.4408	A182 F316
9	Seat Insert 密封圈	PTFE	PTFE	PTFE	PTFE
10	Segment Ring四开环	X20 Cr13	A276 410	1.4408	A276 316
11	Top Cover Gasket 填料函垫片	Graphite+304 石墨+304	Graphite+304 石墨+304	Graphite+304 石墨+304	Graphite+304 石墨+304
12	Bottom Cover Gasket 下轴垫片	Graphite+304 石墨+304	Graphite+304 石墨+304	Graphite+304 石墨+304	Graphite+304 石墨+304
13	Gasket垫片	Graphite+304	Graphite+304	Graphite+304	Graphite+304
14	Seat Spring阀座弹簧	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
15	O-ring O形圈	VITON	VITON	VITON	VITON
16	Seat Fire Safe Packing 防火填料	Graphite+304 石墨+304	Graphite+304 石墨+304	Graphite+304 石墨+304	Graphite+304 石墨+304
17	Nut螺母	A194 2H	A194 2H	A194 8M	A194 8M
18	Bolt螺栓	A193 B7	A193 B7	A193 B8M	A193 B8M
19	Actuator驱动装置	Assembly组合件	Assembly组合件	Assembly组合件	Assembly组合件

Note: Materials can be selected according to customer's requirement. 材料可根据客户要求合理选用

FORGED STEEL TRUNNION MOUNTED BALL VALVES
锻钢固定球阀



Material Specifications 材料规范

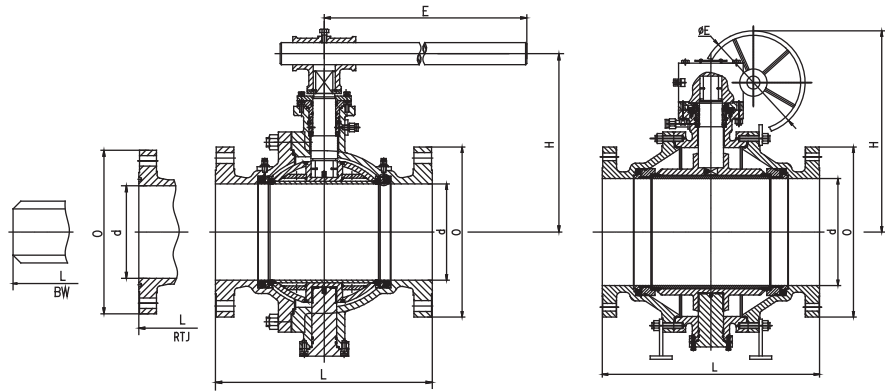
NO. 序号	Parts零件名称	Materials材料			
		Carbon Steel碳钢		Stainless Steel不锈钢	
		DIN	ASTM	DIN	ASTM
1	Bonnet阀盖	St50-2	A105	1.4401	A182 F316
2	Spring弹簧	INCONEL X-750	INCONEL X-750	INCONEL X-750	INCONEL X-750
3	Seat阀座	St50-2	A105	1.4401	A182 F316
4	O-ring O形圈	NBR	NBR	NBR	NBR
5	Ball球体	St50-2+ENP	A105+ENP	1.4401	A182 F316
6	Stem阀杆	X20 Cr13	A182 F6a	1.4401	A182 F316
7	Body阀体	St50-2	A105	1.4401	A182 F316
8	Bottom Cover下轴	St50-2	A105	1.4401	A182 F316
9	Seat Fire Safe Packing 阀座防火填料	Graphite+304 石墨+304	Graphite+304 石墨+304	Graphite+304 石墨+304	Graphite+304 石墨+304
10	Seat Insert密封圈	PTFE	PTFE	PTFE	PTFE
11	Bonnet阀盖	St50-2	A105	1.4401	A182 F316
12	Thrust Washer 推力垫	316+PTFE+MoS2	316+PTFE+MoS2	316+PTFE+MoS2	316+PTFE+MoS2
13	O-ring O形圈	NBR	NBR	NBR	NBR
14	Actuator驱动装置	Assembly组合件	Assembly组合件	Assembly组合件	Assembly组合件

Note: Materials can be selected according to customer's requirement. 材料可根据客户要求合理选用



ANSI CAST STEEL TRUNNION MOUNTED BALL VALVE

美标铸钢固定球阀

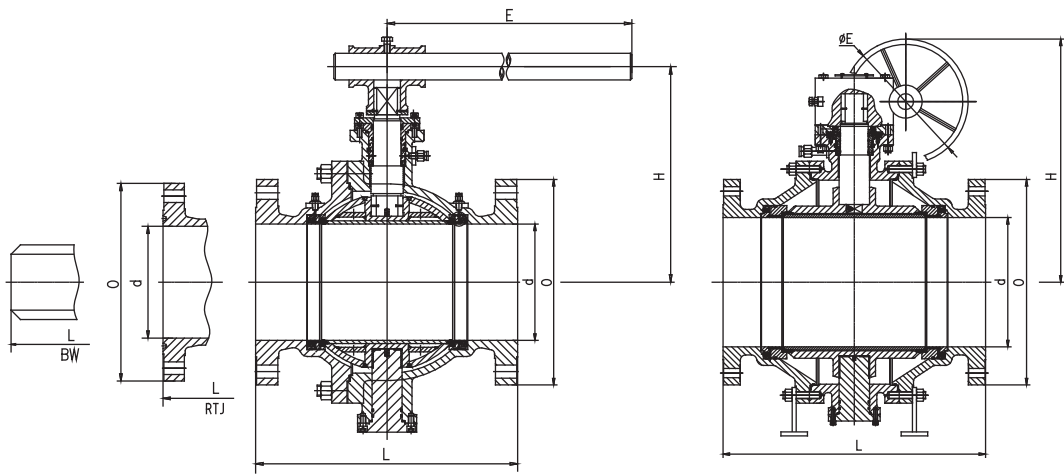


Dimensions and Weights 尺寸及重量 (Class150 ~ Class300)

Class 压力级	NPS(in) 公称尺寸	Dimensions尺寸 / mm								Weights 重量/ kg	
		d	L			O	H	E		FTJ、RF	BW
			RTJ	RF	BW			Manual 手柄	Worm Gear 蜗轮		
Class 150	2	51	191	178	216	150	161	610	—	18	20
	3	76	216	203	282	190	189	610	—	28	34
	4	102	242	229	305	230	214	914	—	52	45
	6	152	407	394	457	280	265	914	—	91	102
	8	203	470	457	521	345	319	—	457	194	204
	10	254	546	533	559	405	369	—	457	320	295
	12	305	623	610	635	485	512	—	457	549	199
	14	337	699	684	762	535	537	—	610	603	558
	16	387	775	762	838	595	572	—	610	748	703
	18	438	877	864	914	635	665	—	610	1055	998
	20	489	927	914	991	700	705	—	457	1501	1252
Class 300	22	540	1004	991	1092	750	742	—	457	1758	1592
	24	591	1080	1067	1143	815	778	—	457	2069	1932
	26	641	—	1143	1245	870	872	—	610	2903	2540
	28	692	—	1245	1346	927	907	—	610	3266	2948
	30	743	—	1295	1397	984	949	—	610	4309	3992
	2	51	232	216	216	165	161	610	—	23	20
	3	76	298	282	282	210	189	610	—	36	34
	4	102	321	305	305	255	214	914	—	57	45
	6	152	419	403	457	320	265	914	—	113	102
	8	203	518	502	521	380	319	—	457	206	204
	10	254	584	568	559	445	369	—	610	340	295
	12	305	664	648	635	520	512	—	457	578	499
	14	337	778	762	762	585	537	—	610	621	558
	16	387	854	838	838	650	572	—	610	782	703
	18	438	930	914	914	710	665	—	610	1225	998
	20	489	1010	991	991	775	705	—	457	1542	1252
	22	540	1114	1092	1092	838	742	—	610	1837	1592
	24	591	1165	1143	1143	915	778	—	609	2445	1932
	26	635	1270	1245	1245	972	872	—	610	3005	2540
	28	686	1371	1346	1346	1035	907	—	610	3504	2948
	30	737	1422	1397	1397	1092	949	—	762	4536	3992

ANSI CAST STEEL TRUNNION MOUNTED BALL VALVE

美标铸钢固定球阀

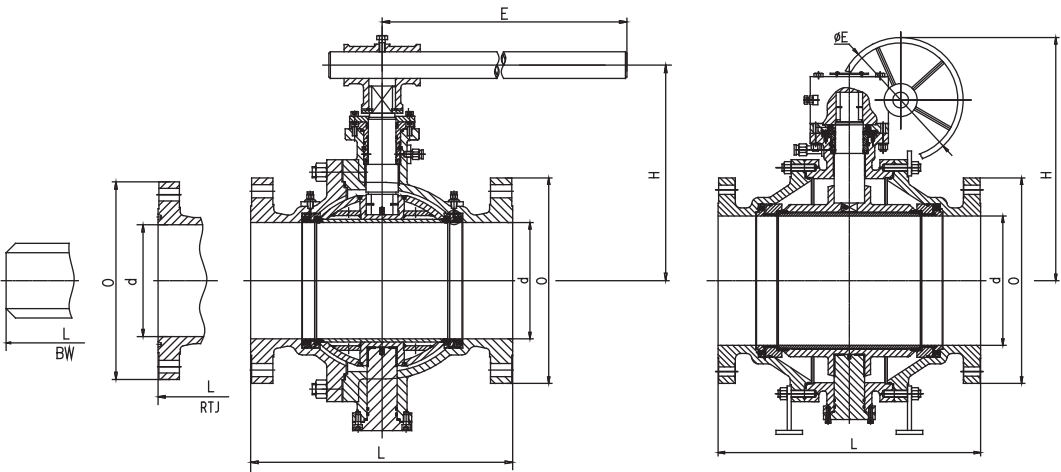


Dimensions and Weights 尺寸及重量 (Class600)

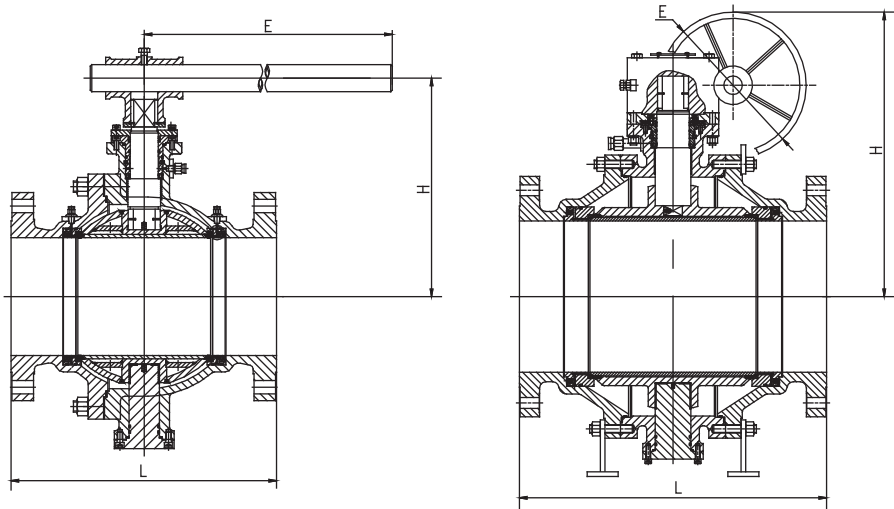
Class 压力级	NPS(in) 公称尺寸	Dimensions尺寸 / mm								Weights 重量/ kg	
		d	L			O	H	E		RTJ、RF	BW
			RTJ	RF	BW			Manual 手柄	Worm Gear 蜗轮		
Class 600	2	51	295	292	292	165	161	610	—	27	20
	3	76	359	356	356	210	189	610	—	39	34
	4	102	435	432	432	275	214	914	—	75	45
	6	152	562	559	559	355	265	914	—	163	102
	8	200	663	660	660	420	319	—	610	295	204
	10	248	790	787	787	510	369	—	762	454	295
	12	298	841	838	838	560	512	—	457	685	499
	14	327	892	889	889	605	537	—	610	866	558
	16	375	994	991	991	685	629	—	457	1089	803
	18	419	1095	1092	1092	745	664	—	610	1340	998
	20	464	1200	1194	1194	815	762	—	610	1860	1361
	22	511	1305	1295	1295	870	801	—	610	2449	1792
	24	559	1407	1397	1397	940	837	—	762	2971	2155
	26	603	1461	1448	1448	1016	872	—	914	3538	2540
	28	648	1562	1549	1549	1073	1041	—	762	4309	3039
	30	695	1664	1651	1651	1130	1083	—	762	5443	4137
	34	830	1946	1930	1930	1245	1151	—	1067	7269	5579
	36	874	2099	2083	2083	1314	1192	—	1067	8664	7031
	40	976	2170	2080	2170	1321	1408	—	1067	12143	10433
	42	1020	2175	2175	2175	1403	1449	—	1067	13835	11567
	48	1166	2435	2435	2435	1594	—	—	—	—	—



ANSI CAST STEEL TRUNNION MOUNTED BALL VALVE
美标铸钢固定球阀



DIN CAST STEEL TRUNNION MOUNTED BALL VALVE
德标铸钢固定球阀



Dimensions and Weights 尺寸及重量 (Class900 ~ Class1500)

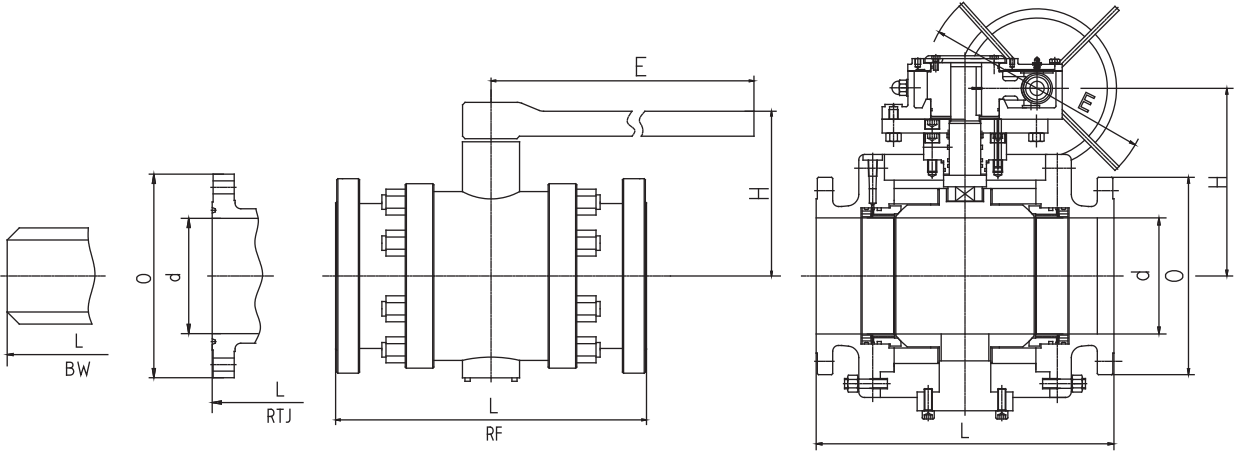
Class 压力级	NPS(in) 公称尺寸	Dimensions尺寸 / mm								Weights 重量/ kg	
		d	L			O	H	E		RTJ、RF	BW
			RTJ	RF	BW			Manual 手柄	Worm Gear 蜗轮		
Class 900	2	49	371	368	368	165	161	610	—	45	20
	3	74	384	381	381	240	189	914	—	64	54
	4	100	460	457	457	290	248	—	457	113	86
	6	150	613	610	610	380	276	—	610	238	186
	8	201	740	737	737	470	319	—	762	549	268
	10	252	841	838	838	545	470	—	457	601	458
	12	303	968	965	965	610	512	—	610	1021	612
	14	322	1039	1029	1029	640	643	—	610	1424	977
	16	373	1140	1130	1130	705	684	—	610	1814	1111
	18	423	1232	1219	1219	787	724	—	610	2404	1792
	20	471	1334	1321	1321	857	895	—	610	3221	2381
	24	570	1568	1549	1549	1041	970	—	762	4763	2926
Class 1500	30	712	1902	1880	1880	1232	1083	—	1067	7938	5216
	36	855	2315	2286	2286	1461	1322	—	—	11612	7938
	2	49	371	368	368	215	161	610	—	45	20
	3	72	473	470	470	265	189	914	—	82	54
	4	100	549	546	540	310	248	—	457	136	86
	6	144	711	705	705	395	276	—	762	324	186
	8	192	841	832	832	485	428	—	457	703	488
	10	239	1000	991	991	585	505	—	457	907	714
	12	287	1146	1130	1130	675	548	—	610	1474	828
	14	315	1276	1257	1257	750	643	—	610	1905	1157
	16	360	1407	1384	1384	825	684	—	762	2449	1338
	18	371	1499	1447	1537	915	838	—	762	2880	2325
	20	416	1686	1664	1164	985	895	—	762	4200	2733
	24	498	1810	1782	2043	1170	970	—	1219	7371	4264

Dimensions and Weights 尺寸及重量 (PN16 ~ PN100)

PN 16/PN 25																
DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
L	RF	179	191	203	229	356	394	457	533	610	686	762	846	914	1067	1245
	BW	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346
H		107	125	152	178	300	330	398	495	580	625	670	698	840	1050	1100
E		230	400	400	650	1050	1050	600	600	800	800	800	800	800	800	800
Wt(kg)		12	16	22	35	58	74	205	322	460	576	864	1280	1600	3540	4500
PN 40																
DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
L	RF	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346
	BW	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346
H		107	125	152	178	300	330	398	495	580	625	670	698	840	1050	1100
E		230	400	400	650	1050	1050	600	600	800	800	800	800	800	800	800
Wt(kg)		15	24	30	55	87	118	255	370	533	640	1030	1542	2100	4200	5300
PN 63																
DN		50	65	80	100	150	200	250	300	350	400	500	600	700	—	—
L	RF	292	330	356	406	495	597	673	762	826	902	1054	1232	1397	—	—
H		108	155	197	235	300	374	445	512	550	615	810	1010	1180	—	—
E		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	—	—
PN 100																
DN		50	65	80	100	150	200	250	300	350	400	500	600	700	—	—
L	RF	292	330	356	432	559	660	787	838	889	991	1194	1397	1579	—	—
H		108	155	197	235	300	374	445	512	550	615	810	1010	1180	—	—
E		600	600	600	600	600	800	800	800	800	800	800	800	800	—	—
Wt(kg)		23	38	55	102	232	290	710	960	1700	1970	3250	5800	6700	—	—



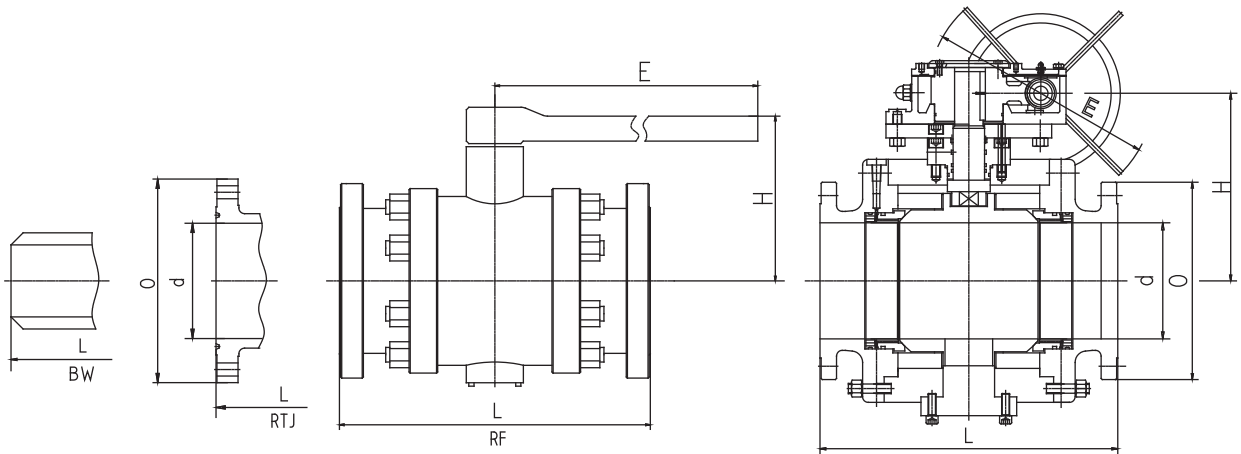
ANSI FORGED STEEL TRUNNION MOUNTED BALL VALVE
美标锻钢固定球阀



Dimensions and Weights 尺寸及重量 (Class150 ~ Class300)

Class 压力级	NPS(in) 公称尺寸	Dimensions尺寸 / mm								Weights 重量/ kg	
		d	L			O	H	E		RTJ、RF	BW
			RTJ	RF	BW			Manual 手柄	Worm Gear 蜗轮		
Class 150	2	51	191	178	216	150	118	320	—	23	17
	3	76	216	203	282	190	144	418	—	43	38
	4	102	242	229	305	230	168	514	—	66	56
	6	152	407	394	457	280	282	—	350	240	200
	8	203	470	457	521	345	319	—	350	390	330
	10	254	546	533	559	405	362	—	350	570	480
	12	305	623	610	635	485	409	—	350	790	660
	14	337	699	686	762	535	448	—	350	980	820
	16	387	775	762	838	595	489	—	350	1170	980
	18	438	877	864	914	635	533	—	350	1640	1370
	20	489	927	914	991	700	573	—	350	2200	1840
Class 300	22	540	1004	991	1092	750	647	—	600	2730	2280
	24	591	1080	1067	1143	815	685	—	800	3270	2730
	26	635	—	1143	1245	870	734	—	800	4140	3450
	28	686	—	1245	1346	927	770	—	800	4740	3950
	30	737	—	1295	1397	984	809	—	800	5670	4730
	2	51	232	216	216	165	118	370	—	28	19
	3	76	298	282	282	210	144	568	—	53	40
	4	102	321	305	305	255	168	664	—	77	58
	6	152	419	403	457	320	282	—	350	250	210
	8	203	518	502	521	380	319	—	350	400	340
	10	254	584	568	559	445	370	—	350	600	500
	12	305	664	648	635	520	417	—	350	820	690
	14	337	778	762	762	585	448	—	350	1030	860
	16	387	854	838	838	650	489	—	350	1220	1020
	18	438	930	914	915	710	568	—	600	1710	1430
	20	489	1010	991	991	775	541	—	800	2310	1930
	22	540	1114	1092	1092	838	649	—	800	2860	2390
	24	591	1165	1143	1143	914	685	—	800	3430	2860
	26	635	1270	1245	1245	972	758	—	600	4340	3620
	28	686	1371	1346	1346	1035	794	—	600	4960	4140
	30	737	1422	1397	1397	1092	833	—	600	5950	4960

ANSI FORGED STEEL TRUNNION MOUNTED BALL VALVE
美标锻钢固定球阀

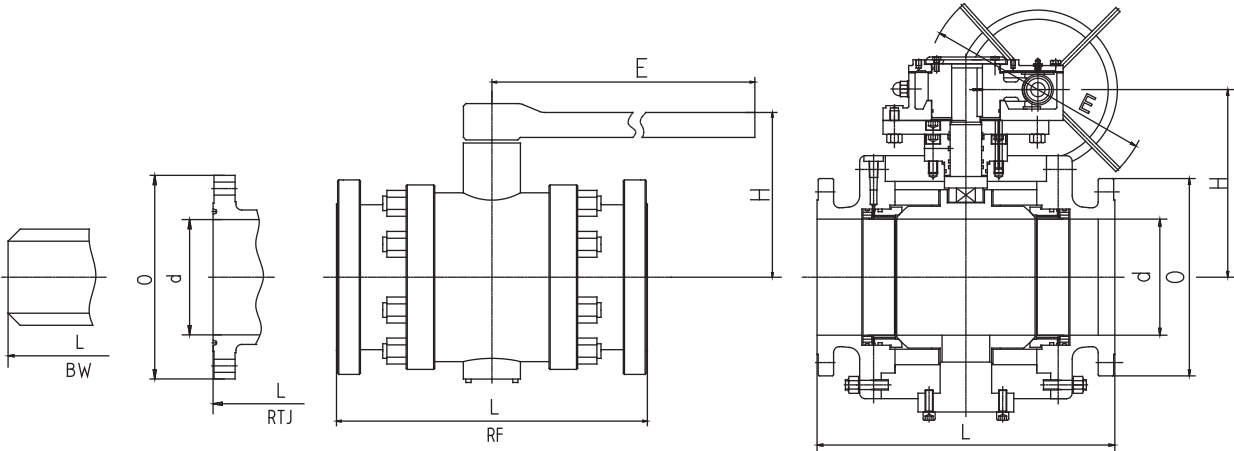


Dimensions and Weights 尺寸及重量 (Class600)

Class 压力级	NPS(in) 公称尺寸	Dimensions尺寸 / mm								Weight 重量/ kg	
		d	L			O	H	E		RTJ、RF	BW
			RTJ	RF	BW			Manual 手柄	Worm Gear 蜗轮		
Class 600	2	51	295	292	292	165	118	430	—	27	20
	3	76	359	356	356	210	144	668	—	59	42
	4	102	435	432	432	275	168	764	—	101	72
	6	152	562	559	559	355	282	—	350	310	260
	8	200	663	660	660	420	327	—	350	500	420
	10	248	790	787	787	510	370	—	350	740	620
	12	298	841	838	838	560	419	—	350	1030	860
	14	327	892	889	889	605	448	—	350	1270	1060
	16	375	994	991	991	685	524	—	600	1520	1270
	18	419	1095	1092	1092	745	570	—	800	2130	1780
	20	464	1200	1194	1194	815	604	—	800	2880	2400
	22	511	1305	1295	1295	870	673	—	600	3570	2980
	24	559	1407	1397	1397	940	709	—	600	4280	3570
	26	603	1461	1448	1448	1016	782	—	600	5430	4530
	28	648	1562	1549	1549	1073	818	—	600	6210	5180
	30	695	1664	1651	1651	1130	857	—	600	7450	6210
	32	779	1794	1778	1778	1194	896	—	600	8470	7060
	34	830	1946	1930	1930	1245	944	—	600	10360	8640
	36	874	2099	2083	2083	1314	981	—	600	12080	10070
	40	976	2170	2080	2170	1321	1066	—	600	15420	12850
	42	1020	2175	2175	2175	1403	1138	—	1200	18180	15150
	48	1166	2435	2435	2435	1594	1297	—	—	25260	21050



ANSI FORGED STEEL TRUNNION MOUNTED BALL VALVE
美标锻钢固定球阀



Dimensions and Weights 尺寸及重量 (Class900 ~ Class1500)

Class 压力级	NPS(in) 公称尺寸	Dimensions尺寸 / mm								Weights 重量/ kg	
		d	L			O	H	E		RTJ、RF	BW
			RTJ	RF	BW			Manual 手柄	Worm Gear 蜗轮		
Class 900	2	49	371	368	368	215	125	560	—	59	35
	3	74	384	381	381	240	155	910	—	85	72
	4	100	460	457	457	290	243	—	600	177	160
	6	150	613	610	610	380	316	—	350	390	330
	8	201	740	737	737	470	350	—	350	640	540
	10	252	841	838	838	545	392	—	350	960	800
	12	303	968	965	965	610	440	—	350	1330	1110
	14	322	1039	1029	1029	641	499	—	600	1640	1370
	16	373	1140	1130	1130	705	541	—	800	1980	1650
	18	423	1232	1219	1219	785	598	—	800	2770	2310
	20	471	1334	1321	1321	855	666	—	800	3740	3120
	22	522	—	—	—	—	717	—	800	4640	3870
Class 1500	24	570	1568	1549	1549	1040	778	—	800	5660	4640
	26	617	—	—	—	1086	827	—	800	7050	5880
	28	665	—	—	—	1168	869	—	800	8070	6730
	2	49	371	368	368	215	125	610	—	58	33
	3	72	473	470	470	265	188	—	300	109	81
	4	100	549	546	546	310	237	—	600	181	160
	6	144	711	705	705	395	355	—	350	460	390
	8	192	842	832	832	485	402	—	350	760	640
	10	239	1001	991	991	585	467	—	350	1150	960
	12	287	1146	1130	1130	675	498	—	350	1590	1330
	14	315	1276	1257	1257	750	609	—	600	1960	1640
	16	360	1406	1384	1384	825	670	—	800	2370	1980
	18	371	1499	1477	1537	915	701	—	800	3820	2770
	20	416	1686	1664	1664	985	860	—	600	4480	3740
	22	457	—	—	—	—	927	—	600	5560	4640
	24	498	1810	1782	2043	1170	973	—	600	6670	5560

TRUNNION MOUNTED BALL VALVE 固定球阀

Test Pressure Specification 压力试验规范

Pressure 压力
Shell (Liquid) 壳体 (液体) : 1.5 or more times the pressure rating for material at 38°C
按38°C材料确定的压力额定值的1.5倍以上
Sealing (Liquid)密封 (液体) : 1.1 or more times the pressure rating for material at 38°C
按38°C材料确定的压力额定值的1.1倍以上
Low-pressure Sealing (Air)低压密封 (气体) : 0.4 ~ 0.7 (Mpa)



DIN Torque form 德标力矩表 (N.M牛顿.米)

DN(mm)	50	65	80	100	150	200	250	300	350	400	500	600	700	800
PN	50	65	80	100	150	200	250	300	350	400	500	600	700	800
16	25	50	65	125	340	485	810	1310	1910	2860	5860	8920	13320	24000
25	30	60	80	140	400	680	1140	1870	2740	4150	7800	13210	19830	35420
40	50	100	150	250	585	996	1690	2800	4110	6300	12000	20380	30670	55200
63	100	200	300	400	890	1500	2560	4290	6320	9750	18660	31820	48020	86830
100	190	360	460	770	1980	3280	5250	7200	9860	14500	29000	42500	58000	82000

ANSI Torque form 美标力矩表 (N.M牛顿.米)

DN(mm)	2	2½	3	4	6	8	10	12	14	16	20	24	28	32
PN	2	2½	3	4	6	8	10	12	14	16	20	24	28	32
150	25	55	80	125	400	700	1100	1750	2600	3900	7500	10500	14500	21000
300	60	120	160	280	950	1550	2000	3300	5000	7500	14400	19600	28200	29800
600	190	360	460	770	1980	3280	5250	7200	9860	14500	29000	42500	58000	62000

Notes: The data in the form just for reference.注：表中数据仅供参考



TRUNNION MOUNTED BALL VALVE 固定球阀

● Full Port Trunnion Mounted Ball Valve Flow Coefficient Cv 全通径固定球阀流量系数Cv

NPS(in)	Cv (Usgal/min) 加伦/分					
	Class 150	Class 300	Class 600	Class 900	Class 1500	Class 2500
2	404	406	360	321	321	204
3	1050	1021	937	906	816	456
4	2120	2096	1800	1750	1602	1014
6	5040	5074	4577	4383	3638	2508
8	9318	9337	8949	8476	7005	5276
10	14857	14857	14586	14139	11356	8377
12	21681	21802	21802	21186	16931	12247
14	26813	26915	26915	23393	20535	—
16	36022	36099	36099	33470	27586	—
18	46640	46685	46685	43882	36312	—
20	58870	58870	58870	54886	46038	—
24	86891	86891	86891	81230	68563	—
26	101050	101050	101050	95758	83399	—
28	118648	118648	118648	112050	97847	—
30	137799	137799	137799	128960	115180	—
36	198954	198954	198954	198910	—	—
40	250510	250510	250510	—	—	—
42	274200	274200	274200	—	—	—
46	330680	330680	330680	—	—	—
48	360840	360840	360840	—	—	—
56	492570	492570	492570	—	—	—

● Method of Calculating Flow 计算流量系数的方法

The Flow Coefficient Cv of a valve is the flow rate of water (gallons/minute) through a fully opened valve, with a pressure drop of 1 psi across the valve. To find the flow of liquid through the valve from the Cv, use the following formulas:
流量系数Cv值是指水通过一个全开且其压力降为1psi的阀门时的流量（加伦/分钟）。使用以下公式可计算Cv值：

Cv = 2 qv (G/Δp)

In formula Cv—Flow Coefficient (Usgal/min) ；流量系数
qv—Volume Flow (Usgal/min) ；液体的流量
Δp—Pressure Drop (1bf/in2) ；通过阀门的压力差
G—Opposite Density of Water=1 指定液体的比重

Δp=ξ(u2ρ/2)

In formula Δp—Pressure Drop (1bf/in2) ；通过阀门的压力差
ξ—Resistance Value ；阻力值
ρ—Liquid Density (kg/mm3) 液体的密度
u —Liquid Average Flow Velocity inside Pipe (mm/s) 在管道里液体平均流速

HIGH PERFORMANCE BALL VALVES 高性能球阀



Sealing materials are made of heat resistant materials, these valves are ideal for heated abrasive service which conventional soft seated ball valve can not perform in due to the its limitation of heat resistance and mechanical properties.
密封材料都是由耐热材料制成的，这些阀门对于那些具有热冲刷的工况来说是比较理想的，因为对于那些热冲刷的工况而言，常规的软密封球阀座球阀由于自身的抗热性能和机械性能的限制而不能胜任。

High Performance Ball Valves Design Feature 高性能球阀设计特点

● Seating Material 座圈材料

13Cr seats with nitriding coated and 17-7 PH seat spring. Maximum working temperature is 450°C. Rigid construction and fully metallic contact between ball and seat. Ideal for high abrasive and throttling service.
表面渗氮处理的13Cr座圈及17-7PH阀座弹簧。最大工作温度是450°C.球和阀座之间的刚性结构和全金属接触对于那些高冲刷和节流的工况是理想的。

● High Temperature Service 高温工况

Conventional soft seated material is limited up to temperature 200°C as it may soften, degrade or melt in high temperature while high performance valve provides a greatly extended range of temperature up to 450°C.
常规软密封座圈材料被限制在200°C以内，因为那些材料在高温下可能被软化，性能降低或熔化。而高性能阀门使用温度范围可扩大到最高450°C。

● Unconditional fire safe provision 无条件防火安全设计

Because kihsko high performance ball valve sealing components (seats, ball, gasket and packing) are made of all hard faced metal or graphite which is extremely heat resistant, so that it is unconditional fire safe design. Also conventional anti-static device is not required because of inter-component electric conductivity.
因为旗胜的高性能球阀密封组件（阀座，球，垫片和填料）都是防火性能极佳的硬面金属或石墨材料制成，所以都是无条件防火安全设计。同时，常规的防静电装置是不需要的，因其内部组件都是导体。

● Sealing and Torque Performance 密封和扭矩性能

Kihsko high performance ball valve can meet soft seated leakage criteria for fluid service. Advanced seat design offers low operation torque at full pressure rating. It is suitable for high temperature steam or gas service.
旗胜高性能球阀能达到软密封阀门的泄露等级。先进的阀座设计在额定压力下提供较低的操作扭矩，适用于高温蒸汽或气体介质。