KAMROO

Contributing to safer and smarter pipe network flow control

Trunnion Mounted Ball Valve

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BRIEF INTRODUCTION

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Founded in 2012, KAMROO Holding Group is an innovative integrator focusing on "smart" manufacturing of valves. The core products are suitable for tough working applications such as low temperature, high temperature, high pressure, strong corrosion, and solids mixed medium. KAMROO products are suitable for industries such as Oil&Gas, Refinery, Chemical, Natural Gas, Power Plant, Metallurgy, Electronics, and new energy. The equivalent standards cover many industrial pipelines fields.

KAMROO strives to create an automation, digital, and intelligent platform, integrates profound technical accumulation and professional wisdom of the team. We also provide superior product support and technical services for domestic and international clients, as well as provide customized solutions for end user.

KAMROO adheres to customer-oriented principle and guarantees system compatibility. We will continue to maintain the attitude and belief of concentration and ingenuity, adhering to safer, more reliable and smarter pipeline flow control technology and advanced design concepts to help you optimize the working application, improve the efficiency and save the costs.

With a flexible and open attitude, KAMROO listens to the voice of the market and embraces multiculturalism. KAMROO focuses on the construction of a global service system, and strives to become the preferred partner in the field of flow control. No matter where you are in the world, we look forward to keeping in close contact with you to understand your specific needs and provide precise services.

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QUALIFICATION CERTIFICATE

API607 Cert

API 641 Cert

API 6D cert

FE Cert

CE Cert

ISO 14001:2015

ISO 45001:2018

ISO 9001:2015

TRUNNION MOUNTED BALL VALVE

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DESIGN STANDARDS	API6D, ASME B16.34, ASME B16.5, API598, etc.
CALIBER RANGE	NPS2~NPS 64
NOMINAL PRESSURE	CLASS150~CLASS1500
MATERIALS	ASTM A105, ASTM A216 WCB, ASTM A352 LCB, ASTM A350 LF2 , ASTM A351 CF8, ASTM A182 F304, ASTM A351 CF8M, ASTM A182 F316, etc.
APPLICABLE TEMPERATURE	-29~180℃
APPLICABLE MEDIUM	water, steam, oil, etc.
OPERATION	Lever, Gear, Pneumatic, Electric, Gas over Oil etc.

TIGHT INTERNAL LEAKAGE SEAL

internal leakage meets the requirements of API 598 bidirectional sealing; the valve is not restricted by on-site installation conditions and can be installed in any direction.

RELIABLE EXTERNAL LEAKAGE SEAL

External leakage meets the requirements of ISO 15848 and TA-LUFT, and can be used in toxic and harmful media conditions.

MIDDLE CAVITY PRESSURE SELF-RELIEVING FUNCTION

When the middle cavity pressure of the valve rises abnormally, the piston-type valve seat structure can ensure that the middle cavity pressure pushes the valve seat open, so that the middle cavity pressure is released to ensure the safety of the valve.

RAPID OPENING AND CLOSING

The valve has a 1/4 switch characteristic and has fast response and tight shutoff functions.

ANTI-STATIC DESIGN

The valve body, ball, valve stem and other metal parts of the valve are in close contact to form a complete electrostatic conduction circuit, so that the static electricity generated in various parts can be discharged in time, avoiding the risk of failure caused by local static electricity concentration.

FIREPROOF STRUCTURE DESIGN

With a unique fireproof structure, even if the soft sealing valve seat is burned due to fire inside the pipeline, the ball is in close contact with the metal structure, which can still prevent the fire from spreading further.

ANTI-BLOWOUT STEM DESIGN

The valve stem structure adopts an anti-flying step design. Even if the packing gland is loosened, the valve stem will not fly out due to internal pressure and cause a safety accident.

DYNAMIC PACKING LOADING DESIGN

provides continuous preload for packing, compensating for fluctuations in pressure and temperature and wear of packing.

DIVERSIFIED OPERATION MODES

The valve adopts a universal design and can be adapted to various forms of actuators such as manual, start, electric, hydraulic, etc. according to requirements.

OTHERS

Structural design of middle cavity sewage discharge , thermal insulation jacket, diameter reduction, etc.

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		CAST STEEL		FORGED STEEL		METAL SEAT	
No.	**Part Name**	**Carbon Steel**	**Stainless Steel**	**Carbon Steel**	**Stainless Steel**	**Carbon Steel**	**Stainless Steel**
1	Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A105N	ASTM A182 F316	ASTM A105N	ASTM A182 F316
2	Bonnet	ASTM A216 WCB	ASTM A351 CF8M	ASTM A105N	ASTM A182 F316	ASTM A105N	ASTM A182 F316
3	Nut	ASTM A194 2H	ASTM A194 8M	ASTM A194 2H	ASTM A194 8M	ASTM A194 2H	ASTM A194 8M
4	Bolt	ASTM A193 B7	ASTM A193 B8M	ASTM A193 B7	ASTM A193 B8M	ASTM A193 B7	ASTM A193 B8M
5a	Gasket	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS316+GRAPHITE	SPW SS304+GRAPHITE	SPW SS316+GRAPHITE
5b	O-ring	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED
6	Spring	INCONELX-750	INCONELX-750	INCONELX-750	INCONELX-750	INCONELX-750	INCONELX-750
7a	Seat Ring	ASTM A105+ENP	ASTM A182 F316	ASTM A105+ENP	ASTM A182 F316	ASTM A105+Ni55	ASTM A182 F316+STL
7b	Seat Insert	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED
9a	O-ring	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED
9b	Fire Safe Ring	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
10	Ball	ASTM A105+ENP	ASTM A182 F316	ASTM A105+ENP	ASTM A182 F316	ASTM A105+Ni60	ASTM A182 F316+STL
11	Sliding Bearing	304+PTFE	304+PTFE	304+PTFE	304+PTFE	304+PTFE	304+PTFE
13	Bearing	304+PTFE	304+PTFE	304+PTFE	304+PTFE	304+PTFE	304+PTFE
14	Anti Static Device	316SS	316SS	316SS	316SS	316SS	316SS
16	Lower Shaft	ASTM A105N	ASTM A182 F316	ASTM A105N	ASTM A182 F316	ASTM A105N	ASTM A182 F316
17	O-ring	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED
18	Gasket	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE
20	Bolt	ASTM A193 B7	ASTM A193 B8M	ASTM A193 B7	ASTM A193 B8M	ASTM A193 B7	ASTM A193 B8M
22	Shaft	ASTM A4140+ENP	ASTM A182 F316	ASTM A4140+ENP	ASTM A182 F316	ASTM A4140+ENP	ASTM A182 F316
23	Sliding Bearing	304+PTFE	304+PTFE	304+PTFE	304+PTFE	304+PTFE	304+PTFE
24	Bearing	304+PTFE	304+PTFE	304+PTFE	304+PTFE	304+PTFE	304+PTFE
26	O-ring	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED
30	Packing	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
35	Gear	Assembling unit	Assembling unit	Assembling unit	Assembling unit	Assembling unit	Assembling unit
36	Key	ANSI 1045	ASTM A276 304	ANSI 1045	ASTM A276 304	ANSI 1045	ASTM A276 304
38	Bolt	ASTM A193 B7	ASTM A193 B8M	ASTM A193 B7	ASTM A193 B8M	ASTM A193 B7	ASTM A193 B8M
39	Nut	ASTM A194 2H	ASTM A194 8M	ASTM A194 2H	ASTM A194 8M	ASTM A194 2H	ASTM A194 8M
40	Springs	65Mn	304SS	65Mn	304SS	65Mn	304SS
41a	Injection Valve	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
41b	Check Valve	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
45a	Bolt	ASTM A193 B7	ASTM A193 B8M	ASTM A193 B7	ASTM A193 B8M	ASTM A193 B7	ASTM A193 B8M
45b	Bolt	ASTM A193 B7	ASTM A193 B8M	ASTM A193 B7	ASTM A193 B8M	ASTM A193 B7	ASTM A193 B8M
51	Bushing	ASTM A105	ASTM A182 F316	ASTM A105	ASTM A182 F316	ASTM A105	ASTM A182 F316
52	Gasket	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE
53	Locking pin	ANSI 1045	ASTM A276 304	ANSI 1045	ASTM A276 304	ANSI 1045	ASTM A276 304
54	O-ring	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED	VITON AED
55	Lifting Point	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
56	Yoking	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
57	Connecting Board	ASTM A105	ASTM A182 F316	ASTM A105	ASTM A182 F316	ASTM A105	ASTM A182 F316
58	Venting Valve	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel

Optional Body/Bonnet Material:
A216 WCB/WCC, A352 LCB/LCC, A351 CF8/CF3/CF8M/CF3M, A890 4A/5A/6A, B148 C95800,Alloy Steel ect..

TRUNNION MOUNTED BALL VALVE

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Remark: "/"in tablet are non-standard size, please confirm with KAMROO

CLASS 150

		L						Weight (kg)	
DN	NPS	RF	WE	RJ	H1	H2	W	RF/RJ	Torque (N.M)
50	2	178	216	191	99	210	300	28	42
65	2 1/2	191	241	203	110	215	350	37	68
80	3	203	283	216	120	225	400	49	92
100	4	229	305	241	148	255	650	90	145
150	6	394	457	406	190	207	460	160	210
200	8	457	521	470	235	255	600	255	625
250	10	533	559	546	285	310	600	380	835
300	12	610	635	622	320	350	600	570	1150
350	14	686	762	699	360	390	750	760	1560
400	16	762	838	775	415	435	750	1150	2375
450	18	864	914	876	450	475	750	1215	2850
500	20	914	991	927	505	515	750	1770	3580
550	22	991	1092	1004	510	560	750	2610	4275
600	24	1067	1143	1080	590	610	750	3450	5650
650	26	1143	1245	1156	650	655	750	4050	6520
700	28	1245	1346	1285	690	725	750	4830	7380
750	30	1295	1397	1308	750	810	750	5960	8380
800	32	1372	1524	1385	780	830	750	7480	9370
850	34	1473	1626	1486	820	860	750	7800	12065
900	36	1524	1727	1537	850	880	750	9100	14760
1000	40	1727	1780	1985	940	920	750	14100	18465
1050	42	1829	1829	2115	980	945	750	15320	29210
1200	48	1995	1995	2418	1120	1085	750	21900	44500

CLASS 300

		L						Weight (kg)	
DN	NPS	RF	WE	RJ	H1	H2	W	RF/RJ	Torque (N.M)
50	2	216	216	232	99	210	300	29	75
65	2 1/2	241	241	257	110	215	350	42	117
80	3	283	283	298	120	225	400	55	159
100	4	305	305	321	148	255	650	98	250
150	6	403	457	419	190	207	460	185	410
200	8	502	521	518	235	255	600	285	935
250	10	568	559	584	285	310	600	505	1300
300	12	648	635	664	320	350	600	740	1790
350	14	762	762	778	360	390	750	1035	2415
400	16	838	838	854	415	435	750	1450	3850
450	18	914	914	930	450	475	750	1580	4645
500	20	991	991	1010	505	515	750	2190	5870
550	22	1092	1092	1114	510	560	750	3065	7970
600	24	1143	1143	1165	590	610	750	3940	9718
650	26	1245	1245	1270	650	655	750	5320	10795
700	28	1346	1346	1372	690	725	750	6420	11715
750	30	1397	1397	1422	750	810	750	6890	14025
800	32	1524	1524	1553	780	830	750	8050	15775
850	34	1626	1626	1654	820	860	750	9040	20075
900	36	1727	1727	1756	850	880	750	11430	24375
1000	40	1930	1930	1985	940	920	750	13780	29625
1050	42	2083	2083	2115	980	945	750	16105	44130
1200	48	2170	2170	2418	1120	1085	750	24060	67140

CLASS 600

		L						Weight (kg)	
DN	NPS	RF	WE	RJ	H1	H2	W	RF/RJ	Torque (N.M)
50	2	292	292	295	99	210	300	32	125
65	2 1/2	330	330	333	110	215	350	46	198
80	3	356	356	359	120	225	400	60	270
100	4	432	432	435	148	255	650	125	430
150	6	559	559	562	210	230	460	255	685
200	8	660	660	664	275	280	600	485	1635
250	10	787	787	791	305	330	600	755	2320
300	12	838	838	841	350	375	600	985	3210
350	14	889	889	892	390	405	750	1085	5595
400	16	991	991	994	440	450	750	1530	6985
450	18	1092	1092	1095	475	500	750	2095	10980
500	20	1194	1194	1200	520	550	750	2635	15010
550	22	1295	1295	1305	575	620	750	3800	18585
600	24	1397	1397	1407	630	665	750	4850	23420
650	26	1448	1448	1461	670	710	750	5985	28265
700	28	1549	1549	1562	710	760	750	6860	32625
750	30	1651	1651	1664	770	820	750	8675	39375
800	32	1778	1778	1794	830	880	750	9850	46125
850	34	1930	1930	1946	850	910	750	11350	52590
900	36	2083	2083	2099	925	960	750	13290	59065
1000	40	2337	2159	2366	975	985	750	18350	73875
1050	42	2439	2175	2467	1100	995	750	21500	88875
1200	48	2540	2435	2540	1265	1230	750	31250	107137

CLASS 900

		L						Weight (kg)	
DN	NPS	RF	WE	RJ	H1	H2	W	RF/RJ	Torque (N.M)
50	2	368	368	371	110	220	650	48	215
65	2 1/2	419	419	422	120	225	800	65	350
80	3	381	381	384	125	235	800	78	485
100	4	457	457	460	175	275	1050	138	895
150	6	610	610	613	245	260	460	365	1690
200	8	737	737	740	285	320	600	600	3910
250	10	838	838	841	335	365	600	1020	5615
300	12	965	965	968	360	460	600	1475	9630
350	14	1029	1029	1038	385	600	750	1560	13435
400	16	1130	1130	1140	470	600	750	2150	17920
450	18	1219	1219	1232	520	600	750	2850	21280
500	20	1321	1321	1334	560	750	750	4220	27100
550	22	1422	1422	1435	620	750	750	5580	40305
600	24	1549	1549	1568	650	750	750	6950	50510
650	26	1651	1651	1673	660	750	750	8990	61750
700	28	1753	1753	1775	715	750	750	10840	72675
750	30	1880	1880	1902	780	750	750	12180	83600
800	32	2032	2032	2054	820	750	750	13590	100320
850	34	2159	2159	2188	865	750	750	/	112850
900	36	2286	2286	2315	920	750	750	/	125400

CLASS 1500

		L						Weight (kg)	
DN	NPS	RF	WE	RJ	H1	H2	W	RF/RJ	Torque (N.M)
50	2	368	368	371	110	220	650	45	385
65	2 1/2	419	419	422	120	225	800	60	610
80	3	470	470	473	125	235	800	85	815
100	4	546	546	549	175	275	1050	150	1490
150	6	705	705	711	225	250	460	565	2875
200	8	832	832	841	275	305	600	735	7070
250	10	991	991	1000	325	360	600	840	10900
300	12	1130	1130	1146	350	385	600	1195	15780
350	14	1257	1257	1276	385	410	750	1570	24030
400	16	1384	1384	1407	460	445	750	2440	29050
450	18	1537	1537	1559	500	505	750	3185	40750
500	20	1664	1664	1686	550	540	750	4628	52430
550	22	/	/	/	/	/	/	/	/
600	24	/	/	1972	635	625	750	7285	71050

CLASS 2500

		L						Weight (kg)	
DN	NPS	RF	WE	RJ	H1	H2	W	RF/RJ	Torque (N.M)
50	2	451	451	454	115	230	1000	40	630
65	2 1/2	508	508	514	135	245	1200	58	985
80	3	578	578	584	150	265	460	78	1345
100	4	673	673	683	185	315	460	175	2465
150	6	914	914	927	250	325	600	405	4745
200	8	1022	1022	1038	320	350	600	575	11680
250	10	1270	1270	1292	385	415	750	860	17990
300	12	1422	1422	1445	410	455	750	1540	26050

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