API600 Top Entry Steel WCB Ball Valve With Flange Ends RF B16.9

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: DY-V-10
- Minimum Order Quantity: 10PCS
- Price: USD2-USD20000 each
- Packaging Details: carton box+ ply wooden cases or carton+ Pallets
- Delivery Time: 20 days for usual order, 7 days for stocked items
- Payment Terms: T/T, L/C, D/P
- Supply Ability: 1000pcs one month

Product Specification

- Highlight: **Steel wcb ball valve**, **API600 wcb ball valve**, **RF B16.9 api 600 ball valve**

Product Description

Ball valve features a spherical disc to open and close the flow of the fluid. They are the industry standard for pipeline shut-off applications, as their design guarantees very tight and leak-free sealing even after years of operation. The two key types of ball valves are the floating and the trunnion designs (side or top entry). The body can be cast or forged and monolithic or split (in 2 or 3 pieces). The API 6D and ASME B16.34 are key specifications.

Product Information / Product Description / Basis Information / Specification

API VALVE Standard	API6D Gate valve, Plug valve and Ball valve API600 Bolted Bonnet Steel Gate Valves for Petroleum and Natural Gas Industries API602 Forged Steel valves API603 Stainless steel valve API609 Butterfly valve API594 Wafer, Lug check valve BS1868 check valve BS1873/ /BS 5352 cast and forged Globe valve
Valve Types	Butterfly Valves, Ball valves, gate valves, check valves, globe valves, Plug valves, strainers
	Ball valve with floating ball and trunnion mounted ball, Body with 1pc. 2pcs. 3pcs Split type
Size	1/2"-48 DN15-DN1200"
End Connection	Flange Ends, RF, FF, RTJ, LM, BW ends, threaded ends NPT, BSPT, BSPP, Socket Welded Ends
Pressure Range	CL150LBS, 300LBS, 600LBS, 800LBS 900LBS, 1500LBS, 2500LBS PN6 PN10 PN16 PN25 PN40. PN64 PN110, PN160, PN250, PN420
Surface	Acid pickling, Polished, Galvanized, Painting, epoxy Power Coated

Material List Grade

Ball Valves supplying scope					
Standard	ANSI B16.34 / API600 / API6D/ DIN EN				
Construction	Side Entry type, 2-pc, 3-pc body, Top Entry Type 1 pc Body				
Ball Type	Floating Balll from size 1/2"-12", Trunnion Mounted Ball from 2"-48"				
Connection	Flanges RF, RTJ, Threaded Ends NPT BSPT, Socket Ends, Butt Welded Ends				
Pressure	150LBS-1500LBS, 1000WOG, 2000WOG, 3000WOG				
Acuators	Manual with lever/ Gear box; Motor elec. Actuator, pneumatic actuator				
Materials of parts as per different Application					
No	Part Name	Carbon Steel	Stainless Steel	Duplex SS	Carbon S teel
1	Body	A216- WCB	A351- CF8M	4A/5A	A352- LCB
2	Bonnet	A216- WCB	A351- CF8M	4A/5A	A352- LCB
3	Ball	A105+ENP//A182- F304	A182- F316	SAF2205/2507	A182- F304
4	Stem	A276- 304	A276- 316	SAF2205/2507	A276- 304
5	Seat	A105+ENP	A182- F316	SAF2205/2507	A350- LF2+ENP
6	Seat Insert	Glass Filled PTFE			
7	Seat Spring	A313- 304	Inconel X- 750	Inconel X- 750	A313- 304
8	Seat O- Ring	NPR	Viton	PTFE	Viton
9	Stem O- Ring	NBR 2)	Viton 2)	PTFE	Viton 2)
10	Bonnet Gasket	Graphite+304	Graphite+316	PTFE+2205	Graphite+304
11	Bonnet O- Ring	NBR	Viton	PTFE	Viton
12	Antistatic Spring	A313- 304	A313- 316	SAF2205/2507	A313- 304
13	Lower Cover	A216- WCB	A182- F316	SAF2205/2507	A182- F304
14	Bonnet Stud	A193- B7	A193- B8	A193- B8	A320- L7
15	Bonnet Stud Nut	A194- 2H	A194- 8	A194- 8	A194- 4
16	Trunnion	A276- 304	A276- 316	A276- 316	A276- 304
17	Trunnion Bearing	304+PTFE	316+PTFE	316+PTFE	304+PTFE
18	Gland Flange	A216- WCB	A351- CF8M	A351- CF8M	A352- LCB
19	Gland Bolt	A193- B7	A193- B8	A193- B8	A193- B7
20	Stop Plate		Carbon Steel+Zn	Carbon Steel+Zn	Carbon Steel
21	Handle	Carbon Steel			

High Temperature Material CF8, 304, 304H CF8M, 316, 316H CK-20, 310, 310H WC4, WC5, F2, WC6, F11C1.2, F12C1.2, WC9, F22C1.3, C5, F5, WC4, WC5, F2, WC6, F11C1.2, F12C1.2, WC9, F22C1.3, C5, F5

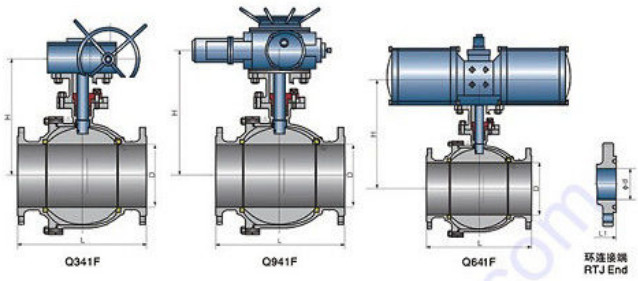
Low Temperature Material A352 LCB, LCC, LC1 LC2, LC3, LC4, CF8M, CF8, CF3M
Alloy Material: Bronze, IN Conoy, DUPLEX SS, Alloy 20, Hastelloy C 276, Hastelloy B

Technical Pressure Test

Shell Test	1.5xworking pressure				
Seal Test	1.1x Working Pressure				
air test for seal	0.6Mpa by air				
Valve Size		Minimum Test Duration (Seconds)			
DN	NPS	Shell	Backseat (for Valves with Backseat Featu_re)	Closure Check Valves (API 594)	Closure Other Valves
≤50	≤ 2"	15	15	60	15
65 to 150	2 1/2" to 6"	60	60	60	60
200 to 300	8"-12"	120	60	120	120
≥350	≥14"	300	60	120	120
a The test duration is the period of inspection aft the valve is fully prepared and is unde full pressure.					

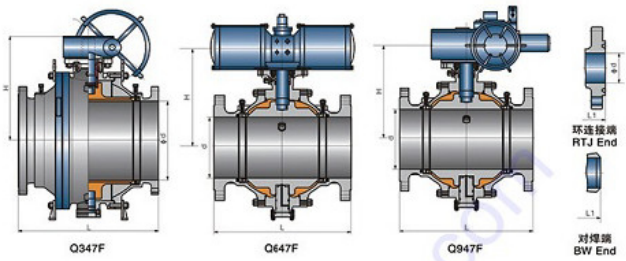
Maximum allowable Leakage Rates for Closure Test							
Valve Size		All Resilient Seated Valves	Metal Seated Valves Except Check		Metal Seated Check Valves		
DN (mm)	NPS		Liquid Test (drops/ minute)	Gas. Test (bubbles/ minute)	Liquid Test (cc/min)	Gas Test (m3/h)	Gas Test (ft3/h)
≤50	≤2	0	0	0	6	0.08	3
65	21/2	0	5	10	7.5	0.11	3.75
80	3	0	6	12	9	0.13	4.5
100	4	0	8	16	12	0.17	6
125	5	0	10	20	15	0.21	7.5
150	6	0	12	24	18	0.25	9
200	8	0	16	32	24	0.34	12
250	10	0	20	40	30	0.42	15
300	12	0	24	48	36	0.5	18
350	14	0	28	56	42	0.59	21
400	16	0	32	64	48	0.67	24
450	18	0	36	72	54	0.76	27
500	20	0	40	80	60	0.84	30
600	24	0	48	96	72	1.01	36
650	26	0	52	104	78	1.09	39
700	28	0	56	112	84	1.18	42
750	30	0	60	120	90	1.26	45
800	32	0	64	128	96	1.34	48
900	36	0	72	144	108	1.51	54
1000	40	0	80	160	120	1.68	60
1050	42	0	84	168	126	1.76	63
1200	48	0	96	192	144	2.02	72
a For the liquid test, 1 ml is considered equivalent to 16 drops. b There shall be no leakage for the minimum specified test duration . For liquid test, 0 drops means no visible leakage per minimum specified test duration. For gas test, 0 bubbles means less than 1 bubble per minimum specified test duration.							

Ball Valves catalogue pages/Dimension List



美标150Lb、300Lb球阀 Class 150~300 Cast Steel Floating Ball Valve

压力等级 Pressure	规格 Size		尺寸Dimensions(mm)														重量 Weigit (kg)	
	DN	NPS	L		d	D	D1	D2	B	F	Z-Φd0	W		H				
			RF	RTJ								手动 Handle	涡轮转动 W.G	手动 Handle	涡轮转动 W.G	手动 Handle	涡轮转动 W.G
150LBS	15	1/2	108	119	14	89	60.5	35	11.5	1.6	4-15	140	-	85	-	2.5	-
	20	3/4	117	130	19	98	70	43	11.5	1.6	4-15	140	-	90	-	3	-
	25	1	127	140	25	108	79.5	51	11.5	1.6	4-15	150	-	99	-	4	-
	32	1 1/4	140	153	32	117	89	64	13	1.6	4-15	180	-	105	-	5.5	-
	40	1 1/2	165	178	38	127	98.5	73	14.5	1.6	4-15	200	-	126	-	8	-
	50	2	178	191	51	152	120.5	92	16	1.6	4-19	250	-	140	-	11	-
	65	2 1/2	190	203	64	178	139.5	105	17.5	1.6	4-19	300	-	165	-	13	-
	80	3	203	216	76	190	152.5	127	19.5	1.6	4-19	350	-	178	-	17	-
	100	4	229	242	102	229	190.5	157	24	1.6	8-19	500	305	230	380	27	42
	125	5	356	369	127	254	216	186	24	1.6	8-22	800	305	280	405	60	79
	150	6	394	407	152	279	241.5	216	25.5	1.6	8-22	800	305	310	460	80	100
	200	8	457	470	203	343	298.5	270	29	1.6	8-22	1000	305	350	550	145	185
	250	10	533	546	254	406	362	324	31	1.6	12-25	-	400	-	700	-	280
300LBS	15	1/2	140	151	14	95	66.5	35	14.5	1.6	4-15	140	-	85	-	3	-
	20	3/4	152	165	19	117	82.5	43	16	1.6	4-19	140	-	90	-	5	-
	25	1	165	178	25	124	89	51	17.5	1.6	4-19	150	-	99	-	6	-
	32	1 1/4	178	191	32	133	98.5	61	19.5	1.6	4-19	180	-	105	-	8	-
	40	1 1/2	190	203	38	156	114.5	73	21	1.6	4-22	200	-	126	-	11	-
	50	2	216	232	51	165	127	92	22.5	1.6	8-19	250	-	142	-	15	-
	65	2 1/2	241	257	64	190	149	105	25.5	1.6	8-22	300	-	165	-	24	-
	80	3	283	299	76	210	168.5	127	29	1.6	8-22	350	-	178	330	34	52
	100	4	305	321	102	254	200	157	32	1.6	8-22	500	305	230	380	55	76
	125	5	381	397	127	279	235	186	35	1.6	8-22	800	305	280	420	88	124
	150	6	403	419	152	318	270	216	37	1.6	12-22	800	305	310	480	125	163
	200	8	502	518	203	381	330	270	41.5	1.6	12-25	1000	305	350	560	222	267



美标150 - 300Lb固定铸钢球阀Class 150–300 Trunnion Type Cast Steel Ball Valve

压力级 Pressure	规格Size		尺寸Dimensions(mm)												重量 Weight (kg)
	DN	NPS	L		d	D	D1	D2	b	f	Z-φd0	H	H1	W	
			RF	BW											
150LBS	100	4	229	305	102	229	190.5	157	24	1.6	8-19	330	135	300	60
	125	5	356	381	127	254	216	186	24	1.6	8-22	360	165	300	80
	150	6	394	457	152	279	241.5	216	25.5	1.6	8-22	392	193	300	101
	200	8	457	521	203	343	298.5	270	29	1.6	8-22	492	240	300	166
	250	10	533	559	254	406	362	324	31	1.6	12-25	548	293	300	283
	300	12	610	635	305	483	432	381	32	1.6	12-25	688	340	400	463
	350	14	686	762	337	533	476	413	35	1.6	12-29	722	372	400	622
	400	16	762	938	387	597	540	470	37	1.6	16-29	722	415	400	900
	450	18	864	914	438	635	578	533	40	1.6	16-32	804	462	500	1150
	500	20	714	991	489	699	635	584	43	1.6	20-32	952	511	600	1360
	600	24	1067	1143	591	813	749.5	692	48	1.6	20-35	1154	601	750	2514
	650	26	1143	1245	633	786	744.5	711	40	1.6	36-22	1300	700	750	3200
	700	28	1245	1346	684	837	795.5	762	43	1.6	40-22	1550	780	750	4000
	750	30	1295	1397	735	887	846	813	43	1.6	44-22	1650	830	750	4800
	800	32	1372	1524	779	941	900	864	44	1.6	48-22	1740	870	750	5800
	900	36	1524	1727	874	1057	1009.5	972	51	1.6	44-26	1950	970	750	8000
300LBS	100	4	305	305	102	254	200	157	32	1.6	8-22	340	140	300	70
	125	5	381	381	127	279	238	186	35	1.6	8-22	370	170	300	95
	150	6	403	457	152	318	270	216	37	1.6	12-22	402	192	300	128
	200	8	502	521	203	381	330	270	41.5	1.6	12-25	498	246	300	234
	250	10	568	559	254	445	387.5	324	48	1.6	16-29	655	303	400	403
	300	12	648	635	305	521	451	381	51	1.6	16-32	658	348	400	602
	350	14	762	762	337	584	514.5	413	54	1.6	20-32	686	378	400	803
	400	16	938	838	387	648	571.5	470	58	1.6	20-35	880	429	600	1273
	450	18	914	914	438	711	628.5	533	61	1.6	24-35	1050	518	750	1450
	500	20	991	991	489	775	686	584	64	1.6	24-35	1110	540	750	1700
	600	24	1143	1143	591	914	813	692	70	1.6	24-41	1400	650	750	3100
	650	26	1245	1245	633	867	803.5	737	87	1.6	32-35.5	1500	750	750	4500
	700	28	1346	1346	684	921	857	787	87	1.6	36-35.5	1600	800	750	6000
	750	30	1397	1397	735	991	921	845	92	1.6	36-39	1720	860	750	7500
	800	32	1524	1524	779	1054	978	902	102	1.6	32-42	1900	900	750	9000
	900	36	1727	1727	874	1172	1089	1010	102	1.6	32-45	2200	1020	600	12000

美标600~2500Lb 固定铸钢球阀Class 600~2500 Trunnion Type Cast Steel Ball Valve

压力级 Pressure	规格Size		尺寸Dimensions(mm)													重量 Weight (kg)
	DN	NPS	L			d	D	D1	D2	b	f	Z-ϕd0	H	H1	W	
			RF	RTJ	BW											
600LBS	50	2	292	295	292	51	165	127	92	26	6.4	8-19	240	94	300	32
	65	2 1/2	330	333	330	64	190	149	105	29	6.4	8-22	290	115	300	47
	80	3	356	359	356	76	210	168	127	32	6.4	8-22	340	136	300	68
	100	4	432	435	432	102	273	216	157	38	6.4	8-25	358	152	300	106
	125	5	508	511	508	127	330	266.5	186	45	6.4	8-29	400	180	300	170
	150	6	559	562	559	152	356	292	216	48	6.4	12-29	445	209	400	241
	200	8	660	664	660	203	419	349	270	56	6.4	12-32	498	263	400	444
	250	10	787	791	787	254	508	432	324	64	6.4	16-35	653	312	400	668
	300	12	838	841	838	305	559	489	381	67	6.4	20-35	665	354	500	1050
	350	14	889	892	889	334	603	527	413	70	6.4	20-38	738	389	600	1317
	400	16	991	994	991	385	686	603	470	77	6.4	20-41	920	440	750	1800
	450	18	1092	1095	1092	436	743	654	533	83	6.4	20-44	1100	530	750	2400
	500	20	1194	1200	1194	487	813	724	584	89	6.4	24-44	1200	560	750	3000
	600	24	1397	1407	1397	538	940	838	592	102	6.4	24-52	1480	670	750	5400
900LBS	50	2	368	371	368	51	216	165.1	92	38.5	6.4	8-26	250	98	300	45
	65	2 1/2	419	422	419	64	244	190.5	105	41.5	6.4	8-29	300	120	300	55
	80	3	381	384	381	76	241	190.5	127	38.5	6.4	8-26	345	140	300	94
	100	4	457	460	457	102	292	234.9	157	44.5	6.4	8-32	415	162	300	141
	125	5	559	562	559	127	349	279.4	186	51	6.4	8-35	446	188	300	230
	150	6	610	613	610	152	381	317.5	216	56	6.4	12-32	477	213	400	325
	200	8	737	740	737	203	470	393.7	270	63.5	6.4	12-39	520	270	400	580
	250	10	838	841	838	254	545	469.9	324	70	6.4	16-39	628	322	400	850
	300	12	965	968	965	305	610	533.4	381	79.5	6.4	20-39	680	360	500	1330
	350	14	1029	1038	1029	322	640	558.8	413	86	6.4	20-42	750	400	600	1660
	400	16	1130	1140	1130	373	705	615.9	470	89	6.4	20-45	940	460	750	2280
1500LBS	40	1 1/2	305	305	305	38	178	123.8	73	32	6.4	4-29	280	100	300	44
	50	2	368	371	368	51	216	165.1	92	38.5	6.4	8-26	320	113	300	67
	65	2 1/2	419	422	419	64	244	190.5	105	41.5	6.4	8-29	340	125	300	80
	80	3	470	473	470	76	267	203.2	127	48	6.4	8-32	385	138	300	130
	100	4	546	549	546	102	331	241.3	157	54	6.4	8-35	415	171	300	102
	125	5	673	676	673	125	375	292.1	186	73.5	6.4	8-42	480	200	400	335
	150	6	705	711	705	144	394	317.5	216	83	6.4	12-39	580	222	400	475
	200	8	832	841	832	192	483	393.7	270	92	6.4	12-45	584	280	400	820
	250	10	991	1000	991	239	585	482.6	324	108	6.4	12-51	650	340	500	1320
	350	12	1130	1146	1130	287	675	571.5	381	124	6.4	16-54	700	370	600	2050
2500LBS	40	1 1/2	384	387	384	38	203	146	73	44.5	6.4	4-32	290	105	300	72
	50	2	451	454	451	42	235	171.4	92	51	6.4	8-29	320	120	300	104
	65	2 1/2	508	514	508	52	267	196.8	105	57.5	6.4	8-32	350	130	300	140
	80	3	578	584	578	62	305	228.6	127	67	6.4	8-35	400	150	300	202
	100	4	673	683	673	87	356	273	157	76.5	6.4	8-42	425	180	400	305
	125	5	794	807	794	100	419	323.8	186	92.5	6.4	8-48	500	210	400	530
	150	6	914	927	914	131	483	368.3	216	108	6.4	8-54	590	230	500	760
	200	8	1022	1038	1022	179	550	438.1	270	127	6.4	12-54	610	290	500	1200
	250	10	1270	1292	1270	223	673	539.7	324	165.5	6.4	12-67	660	350	600	2080

注: 1.RF 表示突面法兰，RJ 表示环连接面法兰，BW表示焊接端连接。2.对于NPS <24的阀门，本表法兰尺寸按ASME B16.5标准。
3.对于NPS>26,本表法兰尺寸按ASME B16.47标准的B系列，API605标准及GB/T13402标准，根据用户要求，法兰尺寸也可按SSNE B16.47标准的A系列及MSS SP--44标准。
Note: 1.RF indicates rased flange, RTJ means ring joint flange, and BW is butt welding ends connection.
2. Flange dimensions of the above table for valves of NPS<24 conforms to ASME B 16.5
3.For valves of NPS>26, the flange dimensions of above table conforms to B series of ASME B 16.47 and API 605. As required by customers, flange dimensions may also conform to A series of ASME B 16.47 and MSS-SP-44

Application:

Valve is a universal component industrial product that is widely used in many industries, such as petroleum, petrochemical, chemical, metallurgy, power, water conservancy, urban construction, machinery, coal, food, Sea water, 0il Refining, environment, energy.
Steam, LPG.

Reference Standard:

API 600: cast carbon and alloy valves
API 603: stainless steel valves
API 602/BS 5352: forged valves
API 6D: slab and through conduit valves for pipelines
API 598 and BS EN 12266-1: valves testing
ASME B16.10: face to face dimensions for valves
ASME B16.5 and ASME B16.47: flanged connections
ASME B16.25: butt weld connections design
ASME B16.34: Pressure ratings pressure and temperature ratings by material grade
ISO 7-1:1994, Pipe threads where pressure-tight joints are made on the threads — Part 1: Dimensions, tolerances and designation.
ISO 4200:1991, Plain end steel tubes, welded and seamless — Dimensions.
ISO 5208:1993, Industrial valves — Pressure testing of valves.
ISO 5209:1977, General purpose industrial valves — Marking.
ISO 5210:1991, Industrial valves — multi-turn valve actuator attachments.
ISO 5752: — 1), Metal valves for use in flanged pipe systems — Face-to-face and center-to-face dimensions.
ISO 6708:1995, Pipework components — Definition and selection of DN (nominal size) .
ISO 7005-1:1992, Metallic flanges — Part 1: Steel flanges.
ISO 7268:1983, Pipe components — Definition of nominal pressure.
ASME B1.1:1989, Unified inch screw threads (UN and UNR thread form) .
ASME B1.5:1988 (R1994), Acme screw threads.
ASME B1.8:1988 (R1994), Stub Acme screw threads.
ASME B1.12:1987 (R1992), Screw threads — Class 5 interference — Fit thread.
ASME B1.20.1:1983 (R1992), Pipe threads, general purpose (inch) .
ASME B16.5:1996, Pipe flanges and flanged fittings.
ASME B16.34:1996, Valves — Flanged, threaded and welding end.
ASME B18.2.2:1987 (R1993), Square and hex nuts (inch series) .
ASTM A193:1996, Specification for alloy steel and stainless-steel bolting materials for high-temperature service.
ASTM A194:1996, Specification for carbon and alloy steel nuts for bolts for high-pressure and high-temperature service.

ASTM A307:1994, Specification for carbon steel bolts and studs, 60 000 psi tensile strength.
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