

Cast Steel Trunnion- Mounted Ball Valve



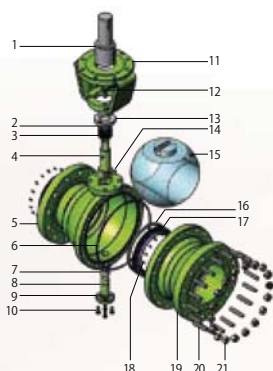
Technical Specification

- Design Standard : API 6D
- Face to Face : API 6D / ASME B 16.10
- Flanged Size : ASME B 16.5
ASME B 16.47
- Test & Inspection : API 598 / API 6D

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 accordance with 「Specification of the length pipe valve」

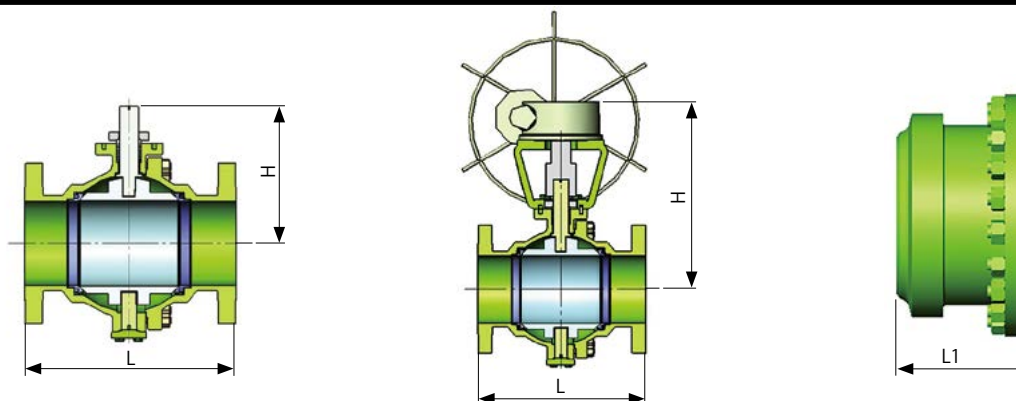
Parts and Material List



No	Accessory Name	Material
		ASTM
1	Connector	A182-F304L
2	Gland	A276-410
3	Packin	PTFE
4	Stem	A276-316
5	Body	A182-F304L
6	Gasket	Graphite
7	Sleeve	A276-410
8	Trunnion	A276-316
9	Trunnion Cover	A351-CF8M
10	Bolt	A193-B7
11	Yoke	A216-WCB

No	Accessory Name	Material
		ASTM
12	Bolt	A193-B7
13	Gland Flange	A351-CF8M
14	Pin	A581-303
15	Ball	A182-F316
16	O-Ring	Viton
17	Seat	PTFE
18	Spring	Inconel X-750
19	Connector	A182-F304L
20	Bolt	A193-B7
21	Nut	A194-7

- Notes**
- Ball : The Material of this part about the anti-sulphur type valve is ASTM(A276-321)
 - Stem : The material of this part about the anti-sulphur type valve is ASTM(A182-304, CF8+Ni,P)
- Major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement.



Dimensions and Weights

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	1400	1500
NPS	in	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48	56	60
Flange	L	178	191	203	229	356	394	457	533	610	686	762	864	914	1067	1245	1372	1524	1721	1829	2180	2300	2400
Butt Welding	L1	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1727	1930	1689	2100	2250	2400
Hand-Operated	H	107	125	152	178	300	330																
	W	230	400	400	450	700	750																
	Kg	9.5	15.0	19.0	33.0	58.0	93.0																
Worm Gear Operated	H							398	495	580	625	670	698	840	1050	1100	1150	1230	1320	1480	1610	1780	1865
	W							600	600	800	800	800	800	800	800	800	800	800	800	800	800	800	800
	Type							B	B	C	C	D	D	DA	DA	DB	DB	DC	DC	DD	DD	DD	DD
	Kg							160	180	240	390	510	750	1190	2600	3000	4490	7800	12560	14280	21900	34100	46200

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	1400	1500
NPS	in	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48	56	60
Flange	L	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346	1524	1727	2083	2050	2180	2300	2400
Butt Welding	L1	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1727	2083	1960	2020	2250	2400
Hand-Operated	H	107	125	152	178	300	330																
	W	230	400	400	450	700	800																
	Kg	20.9	42.5	52.9	92.0	145	182																
Worm Gear Operated	H							398	495	580	625	670	698	840	1050	1100	1150	1230	1320	1480	1610	1780	1865
	W							600	600	800	800	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	DD	DD
	Kg							278	500	733	1029	1418	1592	2195	3460	5770	7932	10093	13775	16105	24060	38155	52350

PN10MPa CLASS 600

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200	1400	1500
NPS	in	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	28	32	40	42	48	56	60
Flange	L	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1549	1178	2083	2337	2100	2400	2400	2700
Butt Welding	L1	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1549	1178	2083	2337	2050	2180	2300	2400
Hand-Operated	H	108	155	197																		
	W	400	650	650																		
	Kg	31	54	62																		
Worm Gear Operated	H				235	300	374	445	512	550	615	750	810	1050	1180	1250	1315	1420	1540	1680	1840	1915
	W				600	600	800	800	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000
	Type				B	C	C	D	D	DA	DA	DB	DC	DD	DH	DH	DH	DH	DJ	DJ	DK	DK
	Kg				133	253	485	758	1067	1083	1525	2095	2638	4736	6758	9138	13298	18335	21356	31195	47483	65200

PN15.0MPa CLASS 900

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	750	800	900	1000	1050	1200
NPS	in	2	2½	3	4	6	8	10	12	14	16	18	20	24	30	32	36	40	48	
Flange	L	368	419	381	457	610	737	838	965	1092	1130	1219	1321	1549	1780	2050	2050	2180	2600	
Butt Welding	L1	368	419	381	457	610	737	838	965	1092	1130	1219	1321	1549	1780	2050	2050	2180	2376	
Hand-Operated	H	217	241	295																
	W	650	650	650																
	Kg	48	55	85																
Worm Gear Operated	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	800	1000	1000	1000	1000
	Type				B	C	C	D	D	DA	DB	DC	DD	DH	DH	DH	DJ	DJ	DK	DK
	Kg				145	360	580	1010	1510	1450	2150	2820	4200	6800	10180	11820	18900	21500	47500	

PN25.0MPa CLASS 1500

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
NPS	in	2	2½	3	4	6	8	10	12	14	16	18	20	24
Flange	L	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	2043
Butt Welding	L1	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	2043
Hand-Operated	H	217	241	259										
	W	650	650	650										
	Kg	45	56	82										
Worm Gear Operated	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
	Type	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

PN45.0MPa CLASS 2500

DN	mm	50	80	100	150	200	250	300
NPS	in	2	3	4	6	8	10	12
Flange	L	451	578	673	914	1022	1270	1422
Butt Welding	L1	451	578	673	914	1022	1270	1422
Hand-Operated	H	220	275	325	360	480	550	615
	W	800	800	800	800	800	800	800
	Kg	90	200	385	778	1352	2137	3267