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Your Partner of Flow Control System

YDF VALVE (SHANGHAI) CO., LTD

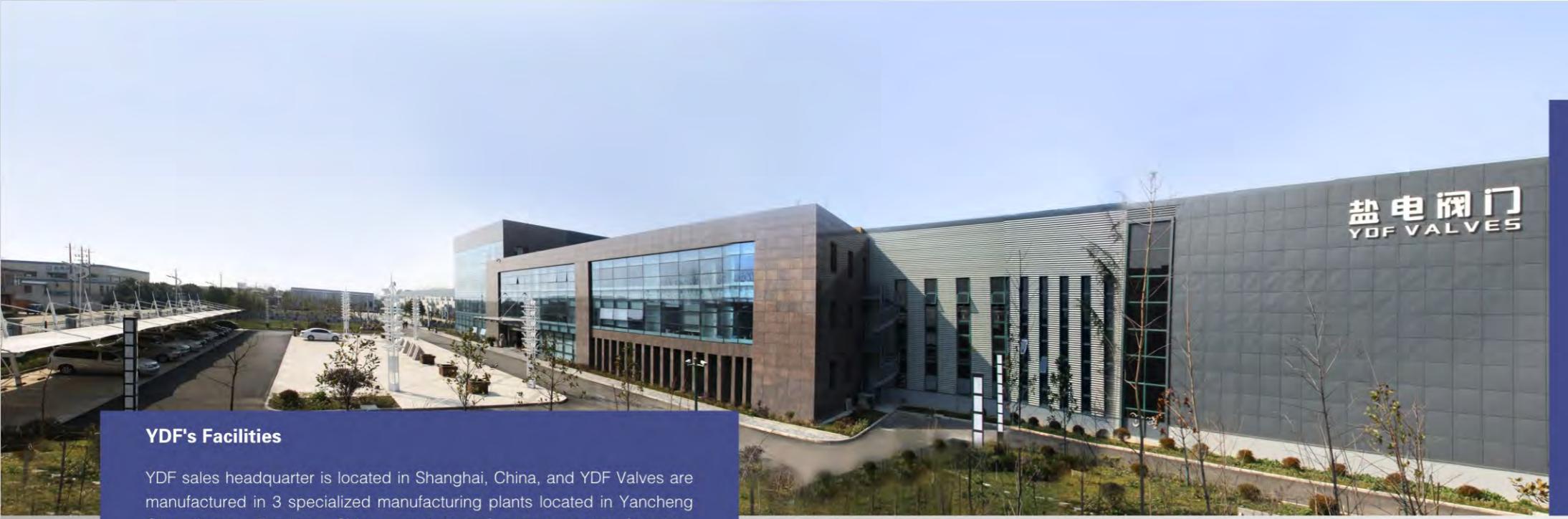
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Your Partner of Flow Control System

CRYOGENIC VALVES

Cat. YDF-006-R14



YDF's Facilities

YDF sales headquarter is located in Shanghai, China, and YDF Valves are manufactured in 3 specialized manufacturing plants located in Yancheng City, Jiangsu Province, China, and 2 professional casting foundries located in Binhai City, Jiangsu Province, China. We have a total of 916 employees and 100,000 meter square cover area. YDF has a specialized quality testing center, CNC machine center and places high emphasis on numerous quality testing to ensure our customers receive the highest quality product possible. ERP system bring the real time production to high efficiency. In-house testing capacities include high pressure gas, cryogenic, high temperature, fugitive emission testing etc.

Quality Assurance

YDF's quality assurance is dedicated to supply zero defect valves to customers with reliable service life. Through our quality compliance, we have achieved the following certifications: ISO9001, ISO14001, OASHS18001, CE/PED, ATEX, API 591, API6D, API 624, ABS ,TS and API607/6FA. In years to come, we at YDF will continue to build quality products that meet and exceed our customers' satisfaction.



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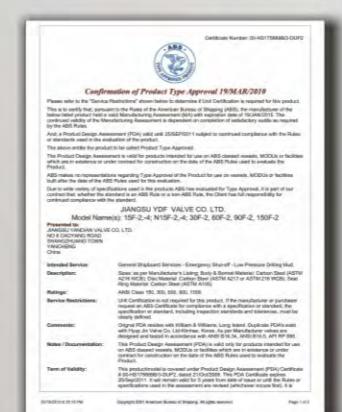
API 6D



CE



API 591



ABS



OHSAS 18001



API 600



ISO 14001



ISO 9001



API 607



API 600

YDF VALVES was established in year 1978, as one of the leading valve manufacturers in China, YDF is specialized in the development of innovative design, through intensive R&D programs and a commitment to be a good partner of flow control system.

YDF's main product lines include Ball, Gate, Globe, Check, Butterfly and Power Station valves. These products have been widely used throughout the world in Oil, Gas, Chemical, Refining, Power Generation, Marine and Pipeline Transmission industrial application.

STANDARD

Design and manufacture standard

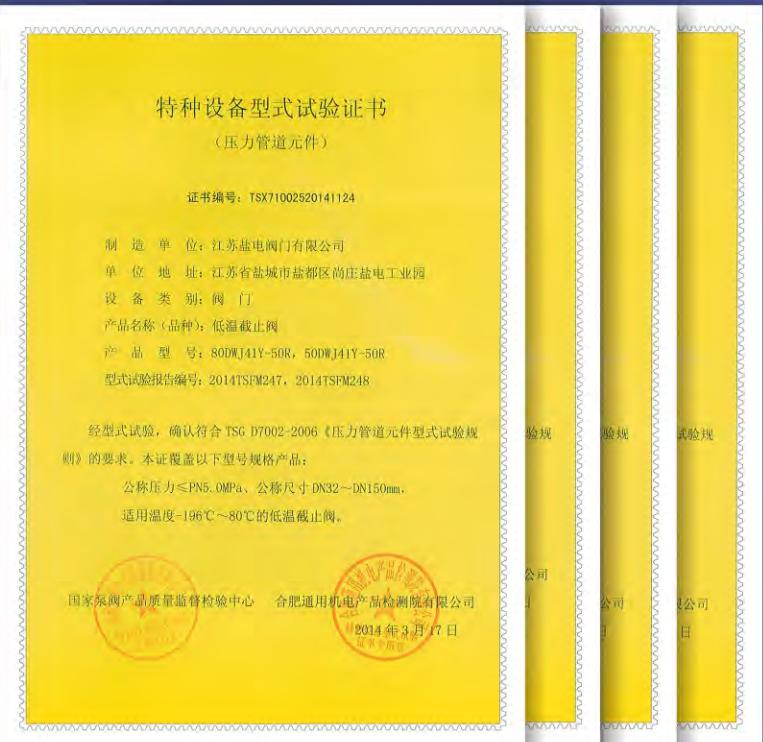
BS6364 Valves for cryogenic service
ASME B16.34 Valves—Flanged, Threaded, And Welding End
SHELL SPE 77/200 Valves in low temp&cryogenic services

Inspection and test standard

API598 Valve inspection and testing
BS6364 Valves for cryogenic service
SHELL SPE 77/312 Fugitive emission production testing
ISO 15848 Industrial valves—Measurement, test and qualification procedures for fugitive emissions



CERTIFICATE AND INSPECTION REPORT

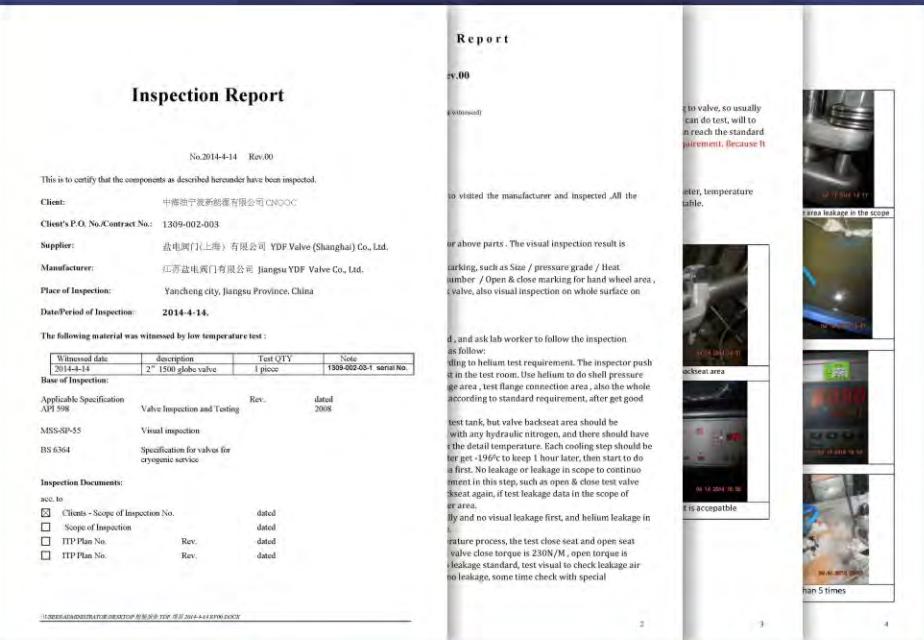
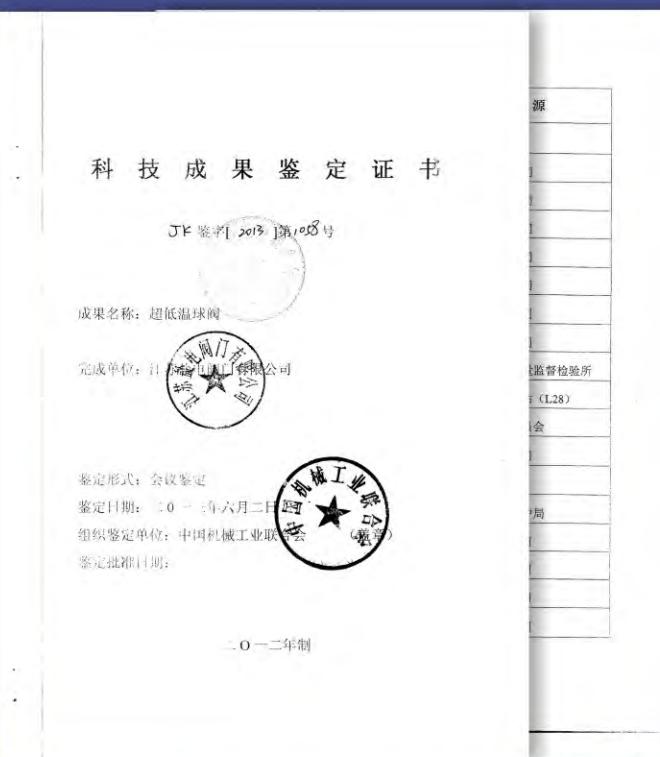


Cryogenic Ball Valves Type Testing Certificate

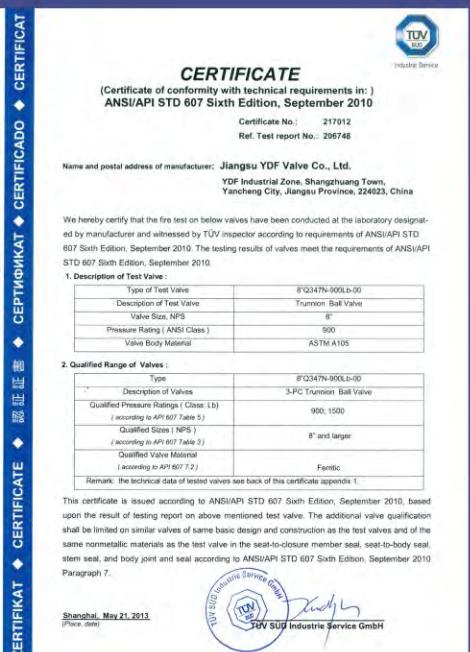
Project Supply Reference List For Cryogenic Valve

Project Supply Reference List to Cryogenic valve											
Year	Industry	Country	End User	Project Name	EPC/Buyer	Size	Valve Type	Rating	Qty	Material	Update:
2010	LNG	Taiwan	TPC Taiwan	-	Evergreen	1 1/4"	Trunnion Mounted Ball	300#	6	CF8M	April 2014
2010	LNG	Malaysia	Malaysia LNG	MUNG MDG	Malaysia LNG	3 1/2"	Ball (Metal Seated)	600#	1	CF8M	
2010	Tank Terminal	Netherlands	Vopak	Vopak Terminal Westport	E.ON	12"	Gate	150#	1	CF8M	
2011	LNG	Malaysia	Murphy Oil	Gas Platform SK-303 Phase 1	Petra Resources	2"	Ball	150#	1	CF8M	
2011	ENG	China	CNPC	ING	CDGCO	3"	Ball	300#	10	CF8M, F316, F304	
2012	FPSO	Singapore	Petrobras	SHDS	Marine	4"	Ball	300#-500#	80	CF8M/F316	
2012	GLNG	Australia	Santos Ltd.	GENG Upstream Project	-	6"	Ball	300#-500#	68	CF8M/F316	
2013	GLNG	China	Sichuan province can energy co., LTD	-	-	8"	Ball	150#-300#	117	CF8M	
2013	ENG	China	ODOC	-	-	10"	Ball	150#, 300#, 600#	89	CF8	
2013	ENG	Brazil	Petrobras	CSST Project	-	12"	Ball	150#, 300#	105	CF8M/F316	

YDF Cryogenic Valves Are
Awarded New Technical Innovation
Certificate By Chinese National
Mechanical Industry Research
Institute.



Inspection Report



Fire Safe Certificate



MATERIAL

Casting quality is the key of valve quality.
YDF realized this from the beginning.
YDF has own foundry, with capacity:
Investment casting:1000T/month
Sand casting:800T/month
Material cover, carbon steel, stainless steel,
alloy steel, and other special material.
Strict Solution Treatment For Stainless Steel.
- 196° impact Testing.
Radiographic Examination.
Micro structure Examination.

ADVANCED MANUFACTURING

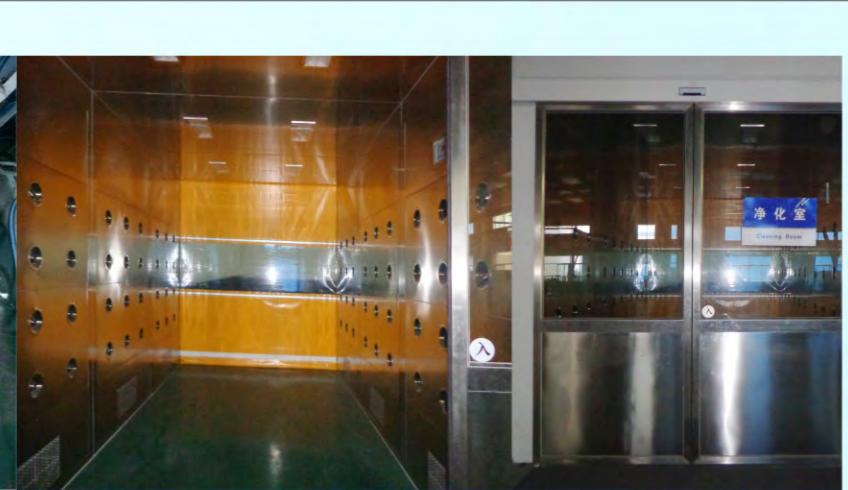
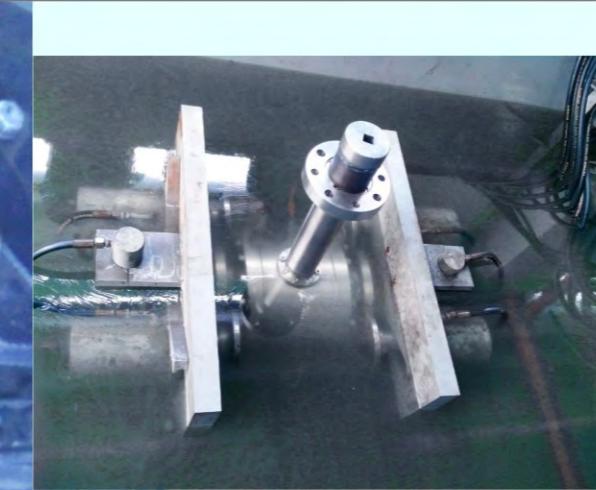


TESTING

High pressure nitrogen test under room temperature;

High pressure helium test under low temperature;

Fugitive emission test on external leakage.



PRODUCTS VIEW



CRYOGENIC FLOATING BALL VALVE

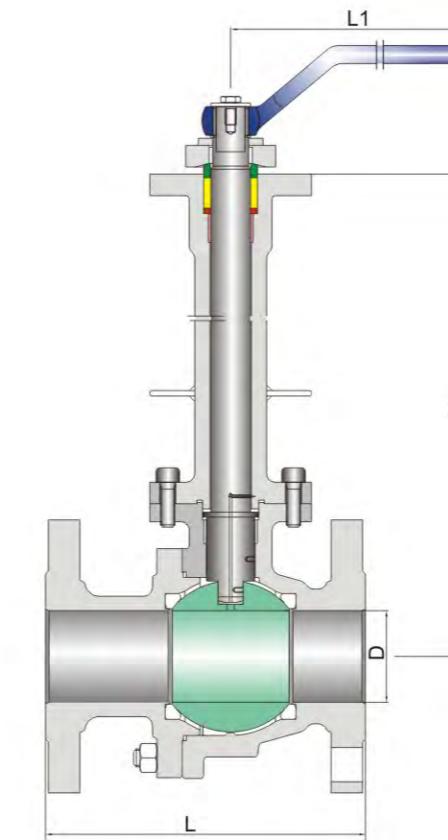


Products Range

150LB	1/2"-8"
300LB	1/2"-8"
600LB	1/2"-4"
900LB	1/2"-2"
1500LB	1/2"-2"

Design Features

- 2pcs or 3pcs side entry.
- Meets ASME B16.34, API 608, ASME B16.5, BS 6364.
- Face-to-face dimensions meet ASME B16.10 long pattern.
- Gear Operation design for 6 ~8 inch.
- Low torques & Long cycle life.
- Blowout-proof stem.
- Fire safe tested design.
- Low emission design.
- Vent holes on the balls.
- Lock able device (optional).
- Live loaded gland Bolting (optional).



STANDARD MATERIALS

PART	STAINLESS STEEL
Body	ASTM A351 CF8
Closure	ASTM A351 CF8
Ball	ASTM A182 F304
Seat	PCTFE
Stem	ASTM A182 F304
Gasket	SS304+Graphite
Bolt	ASTM A193 B8
Spring	SS 304
Small Ball	SS 304
Cap Screw	ASTM A193 B8
Yoke	SS 304
Packing	Graphite
Gland	SS 304
Gland Flange	ASTM A351 CF8
Retaining Ring	SS 304
Screw	ASTM A193 B8
Lever	ASTM A216 WCB+Zn

SIDE ENTRY DIMENSIONS

150LB

Size		D	L	H	L1	WT
in	mm	in	mm	in	mm	kg
1/2	15	0.49	13	4.09	108	12.35
3/4	20	0.72	19	4.43	117	12.73
1	25	0.95	25	4.81	127	12.99
1-1/2	40	1.44	38	6.25	165	15.76
2	50	1.93	51	6.74	178	16.36
3	80	2.88	76	7.69	203	19.17
4	100	3.86	102	8.67	229	22.80
6	150	5.76	152	14.92	394	27.99
8	200	7.69	203	17.69	467	29.66

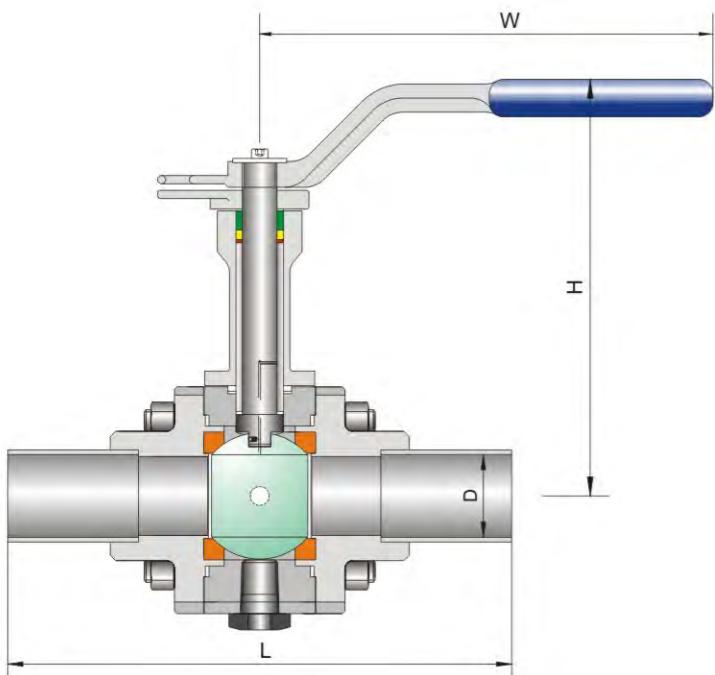
300LB

Size		D	L	H	L1	WT
in	mm	in	mm	in	mm	kg
1/2	15	0.49	13	5.30	140	12.35
3/4	20	0.72	19	5.76	152	12.88
1	25	0.95	25	6.25	165	13.14
1-1/2	40	1.44	38	7.23	191	15.91
2	50	1.93	51	8.18	216	16.59
3	80	2.88	76	10.72	283	19.55
4	100	3.86	102	11.55	305	23.30
6	150	5.76	152	15.27	403	29.89
8	200	7.69	203	19.02	502	31.93



CRYOGENIC FLOATING BALL VALVE

FORGED STEEL



STANDARD MATERIALS

PART	STAINLESS STEEL
Body	ASTM A182 F304
Closure	ASTM A182 F304
Ball	ASTM A182 F304
Stem	ASTM A182 F304
Seat	PCTFE
Gasket	SS304+Graphite
Bolt	ASTM A193 B8
Spring	SS 316
Packing	Graphite
Gland	ASTM A182 F304
Screw	S.S.
Lever	ASTM A216 WCB+Zn
Pipe	A312 GR TP 304

DIMENSIONS

600LB

Size	D	L	H	L1	WT
in mm	in mm	in mm	in mm	in mm	kg
1/2 15	0.49 13	6.25 165	12.77 337	6.25 165	8
3/4 20	0.72 19	7.23 191	13.14 347	8.14 215	9
1 25	0.95 25	8.18 216	13.67 361	8.14 215	15
1-1/2 40	1.44 38	9.13 241	16.02 423	13.26 350	27
2 50	1.93 51	11.06 292	19.32 510	16.29 430	52
3 80	2.88 76	13.56 358	24.70 652	30.87 815	82
4 100	3.86 102	16.36 432	26.59 702	30.87 815	115

900LB

Size	D	L	H	L1	WT
in mm	in mm	in mm	in mm	in mm	kg
1/2 15	0.49 13	6.25 165	13.41 354	8.14 215	15
3/4 20	0.72 19	8.26 218	14.73 389	5.68 150	22
1 25	0.95 25	8.67 229	15.15 400	7.69 203	33
1-1/2 40	1.44 38	9.62 254	18.26 482	11.36 300	63
2 50	1.93 51	11.59 306	21.89 578	15.15 400	90

1500LB

Size	D	L	H	L1	WT
in mm	in mm	in mm	in mm	in mm	kg
1/2 15	0.49 13	6.25 165	13.41 354	8.14 215	15
3/4 20	0.72 19	8.26 218	14.73 389	5.68 150	22
1 25	0.95 25	8.67 229	15.15 400	7.69 203	33
1-1/2 40	1.44 38	9.62 254	18.26 482	11.36 300	63
2 50	1.93 51	11.59 306	21.89 578	15.15 400	90

CRYOGENIC TRUNNION MOUNTED BALL VALVE

Products range

Side entry

150LB	2"-24"
300LB	2"-24"
600LB	2"-24"
900LB	2"-24"
1500LB	2"-16"

Top entry

150LB	2"-10"
300LB	2"-10"
600LB	2"-10"



Design Features

Top entry or side entry.

Meets ASME B16.34, API 6D, ASME B16.5, BS 6364.

Face-to-face dimensions meet ASME B16.10 long pattern.

Gear operation design for 6 inch and above.

Lip seal design.

Low torques & long cycle life.

Blowout-proof stem.

Fire safe tested design.

Double block and double bleed .

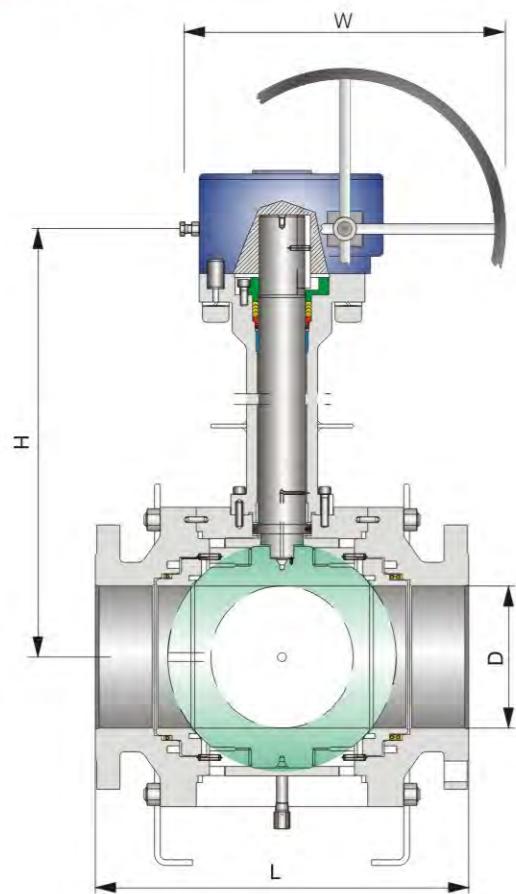
Bonnet extension.

Low emission design.

Locking device (optional)



CRYOGENIC TRUNNION MOUNTED BALL VALVE



STANDARD MATERIALS

PART	Stainless Steel
Body	ASTM A182 F316
Closure Insert	ASTM A182 F316
Closure Outlet	ASTM A182 F316
Ball	ASTM A182 F316
Stem	ASTM A182 F316
Seat Trunnion Import	ASTM A182 F316
Seat Export	ASTM A182 F316
Weather Seal Ring	PCTFE
Fixed Block	F304/F316
Trunnion Alignment Pin	SS304/SS316
Extended Bonnet	SS304/SS316
Platen	SS304/SS316
Gland	SS304/SS316
Body Stud	ASTM A193 B8/B8M
Body Nut	ASTM A194 8/8M
Screw	B8/B8M
Straight Pin	SS304/SS316
Spring Pin	SS
Key	ASTM A276 410
Body Gasket	SS+Graphite
Packing	Graphite
Vent Valve	SS304/SS316
Spring	InconelX750
Steel Ball	SS304
Lifting Eye	SS
Support Frame	SS
Drain Valve	SS304/SS316
Straight Pin	410
Screw	B8/B8M
Spring Plate	SS
Rivet	SS

SIDE ENTRY DIMENSIONS

Size		D		L		H		W		WT
in	mm	in	mm	in	mm	in	mm	in	mm	kg
2	50	1.93	49	7.01	178	18.58	472	11.81	300	45
3	80	2.91	74	7.99	203	23.27	591	11.81	300	105
4	100	4.02	102	9.02	229	26.30	668	19.69	500	130
6	150	5.98	152	15.51	394	33.31	846	23.62	600	260
8	200	7.99	203	17.99	457	37.32	948	23.62	600	398
10	250	10	254	20.98	533	40.71	1034	23.62	600	570
12	300	12.01	305	24.02	610	42.05	1068	23.62	600	923
14	350	13.27	337	27.01	686	45.43	1154	27.56	700	1360
16	400	15.24	387	30	762	46.69	1186	29.92	760	1935
18	450	17.24	438	34.02	864	71.26	1810	31.50	800	2296
20	500	19.25	489	35.98	914	79.53	2020	35.43	900	3570
22	550	21.26	540	40	1016	85.43	2170	35.43	900	5040
24	600	23.27	591	42.01	1067	97.24	2470	35.43	900	6240

150LB

Size		D		L		H		W		WT
in	mm	in	mm	in	mm	in	mm	in	mm	kg
2	50	1.93	49	8.50	216	18.58	472	11.81	300	50
3	80	2.91	74	11.14	283	23.27	591	11.81	300	111
4	100	4.02	102	12.01	305	26.30	668	19.69	500	144
6	150	5.98	152	15.87	403	33.31	846	23.62	600	266
8	200	7.99	203	19.76	502	37.32	948	23.62	600	719
10	250	10	254	22.36	568	40.71	1034	23.62	600	613
12	300	12.01	305	25.51	648	42.05	1068	23.62	600	1096
14	350	13.27	337	30.00	762	45.43	1154	27.56	700	1385
16	400	15.24	387	32.99	838	46.69	1186	29.92	760	1940
18	450	17.24	438	35.98	914	71.26	1810	31.50	800	2300
20	500	19.25	489	39.02	991	79.53	2020	35.43	900	3575
22	550	21.26	540	42.99	1092	85.43	2170	35.43	900	5045
24	600	23.27	591	45.00	1143	97.24	2470	35.43	900	6245

300LB

CRYOGENIC TRUNNION MOUNTED BALL VALVE

SIDE ENTRY DIMENSIONS

Size		D	L	H	W	WT
in	mm	in	mm	in	mm	kg
2	50	1.93	49	11.50	292	18.58
3	80	2.91	74	14.02	356	23.27
4	100	3.94	100	17.01	432	26.30
6	150	5.91	150	22.01	559	33.58
8	200	7.91	201	25.98	660	38.46
10	250	9.92	252	30.98	787	41.18
12	300	11.93	303	32.99	838	43.54
14	350	13.15	334	35.00	889	46.61
16	400	15.16	385	39.02	991	48.27
18	450	17.17	436	42.99	1092	72.44
20	500	19.17	487	47.01	1194	80.71
22	550	21.18	538	50.98	1295	86.61
24	600	23.19	589	55.00	1397	98.43

600LB

Size		D	L	H	W	WT
in	mm	in	mm	in	mm	kg
2	50	1.93	49	14.49	368	19.69
3	80	2.91	74	15.00	381	24.80
4	100	3.94	100	17.99	457	27.05
6	150	5.91	150	24.02	610	27.17
8	200	7.91	201	29.02	737	42.68
10	250	9.92	252	32.99	838	45.04
12	300	11.93	303	37.99	965	51.18
14	350	12.68	322	40.51	1029	61.02
16	400	14.69	373	44.49	1130	70.87

900LB

Size		D	L	H
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CRYOGENIC GATE VALVE

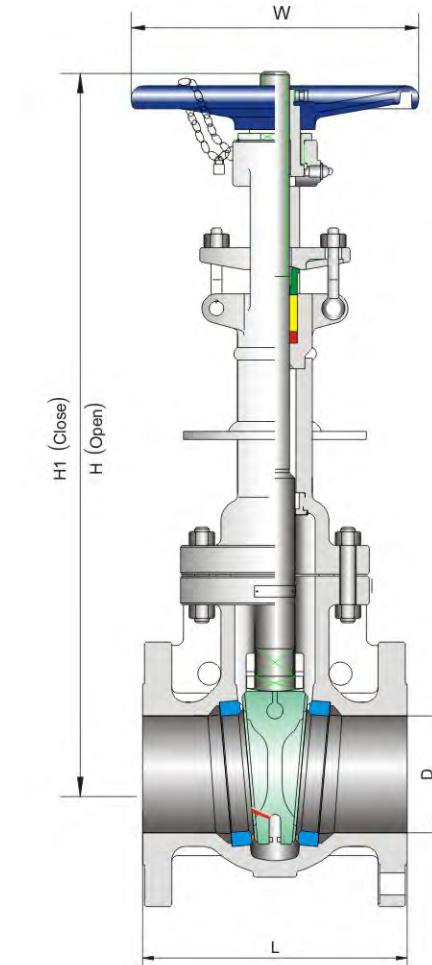
Products Range

150LB	1/2" — 36"
300LB	1/2" — 36"
600LB	1/2" — 36"
800LB	1/2" — 2-1/2"
900LB	1/2" — 16"
1500LB	1/2" — 12"
2500LB	1/2" — 8"



Design Features

- Meets ASME B16.34, API 600, ASME B16.5, ASMEB16.10, BS 6364.
- Vent holds on the wedge to meet cavity pressure relief.
- Low torques & long cycle life.
- Bonnet extension.
- Low emission design.
- Full Stellite overlay on the seating surface.
- Locking device (optional).
- Live Loaded Gland Bolting (optional).



STANDARD MATERIALS

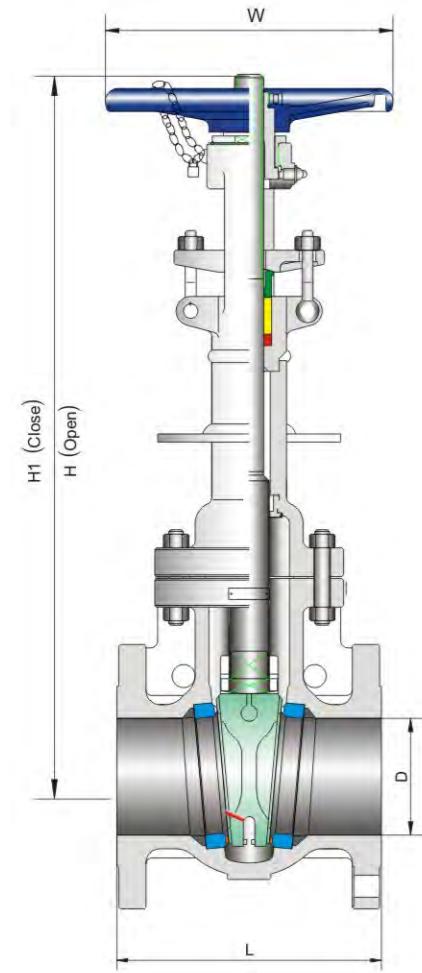
PART	CAST
Body	ASTM A351 CF8M
Bonnet	ASTM A351 CF8M
Stem	ASTMA182 F316
Wedge	ASTM A351 CF8M / STL.6
Seat	ASTM A182 F316/STL.6
Gland flange	ASTM A351 CF8M
Gland	ASTM A276 316
Packing	Graphite
Gland stud	ASTM A193 B8/B8M
Gland nut	ASTM A194 8/8M
Body/bonnet nut	ASTM A194 8/8M
Body/bonnet stud	ASTM A193 B8/B8M
Back seat	ASTM A276 316
Gasket	SPW. SS316+Graphite
Key	SS
Yoke	ASTM A351 CF8M
Handwheel nut	SS
Handwheel	Ductile iron
Grease fitting	Steel
Groove pin	Stainless steel
Bushing	Stainless steel
Washer	Stainless steel
Name plate	Stainless steel
Rivet	Stainless steel

DIMENSIONS

NPS	DN	L(RF)		L1(BW)		W		H		WT(RF)	WT(BW)
		in	mm	in	mm	in	mm	in	mm		
2"	50	7	178	8.5	216	8	200	25.3	642	25	20
2-1/2"	65	7.5	190.0	9.5	241	8	200	27.5	699	34	23
3"	80	8	203	11.12	282	10	250	30.1	764	46	34
4"	100	9	229	12	305	10	250	33.6	853	64	53
6"	150	10.5	267	15.88	403	14	350	40.7	1035	105	90
8"	200	11.5	292	16.5	419	14	350	48.2	1225	165	140
10"	250	13	330	18	457	16	400	55.7	1416	265	203
12"	300	14	356	19.75	502	18	450	64.8	1646	378	322
14"	350	15	381	22.5	572	20	500	69.1	1756	520	475
16"	400	16	406	24	610	22	560	77.9	1978	632	627
18"	450	17	432	26	660	25	640	84.7	2152	793	763
20"	500	18	457	28	711	27	680	93.6	2378	1024	978
24"	600	20	508	32	813	30	720	108.0	2742	1600	1531
28"	700	24	610	36	914	28	500*	131.5	3340	2470	2389
30"	750	24	610	36	914	35	500*	146.3	3715	3302	2939
32"	800	26	660	38	965	24	610*	150.6	3824	3845	3237
36"	900	28	711	40	1016	24	810*	154.2	3917	4394	4303

CRYOGENIC GATE VALVE

CAST STEEL



STANDARD MATERIALS

PART	CAST
Body	ASTM A351 CF8M
Bonnet	ASTM A351 CF8M
Stem	ASTMA182 F316
Wedge	ASTM A351 CF8M / STL.6
Seat	ASTM A182 F316 / STL.6
Gland flange	ASTM A351 CF8M
Gland	ASTM A276 316
Packing	Graphite
Gland stud	ASTM A193 B8/B8M
Gland nut	ASTM A194 8/8M
Body/bonnet nut	ASTM A194 8/8M
Body/bonnet stud	ASTM A193 B8/B8M
Back seat	ASTM A276 316
Gasket	SPW. SS316+Graphite
Key	SS
Yoke	ASTM A351 CF8M
Handwheel nut	SS
Handwheel	Ductile iron
Grease fitting	Steel
Groove pin	Stainless steel
Bushing	Stainless steel
Washer	Stainless steel
Name plate	Stainless steel
Rivet	Stainless steel

DIMENSIONS

NPS	DN	L-L1		W	H	WT(RF)	WT(BW)
		in	mm	in	mm	kg	kg
2"	50	8.5	216	8	200	27.0	685
2-1/2"	65	9.5	241	10	250	30.1	765
3"	80	11.1	282	10	250	31.1	790
4"	100	12	305	10	250	34.8	883
6"	150	15.9	403	14	350	41.9	1065
8"	200	16.5	419	16	400	50.0	1270
10"	250	18	457	18	450	57.6	1462
12"	300	19.8	502	20	500	66.5	1690
14"	350	30	762	22	560	70.9	1800
16"	400	33	838	23.6	600	79.5	2020
18"	450	36	914	26.8	680	87.4	2220
20"	500	39	991	29.9	760	94.8	2407
24"	600	45	1143	29.9	760	110.6	2810
28"	700	53	1346	24	610*	132.7	3370
30"	750	55	1397	24	610*	142.2	3611
32"	800	60	1524	32	810*	155.2	3942
36"	900	68	1727	40	810*	162.6	4129

300LB

CRYOGENIC GATE VALVE

CAST STEEL

600LB

DIMENSIONS

NPS	DN	L-L1		L2		W		H		WT(RF)	WT(BW)
		in	mm	in	mm	in	mm	in	mm		
2"	50	11.5	292	11.6	295	10	250	26.7	677	51	36
2-1/2"	65	13	330	13.1	333	10	250	30.4	772	68	55
3"	80	14	356	14.1	359	11.8	300	32.5	826	88	72
4"	100	17	432	17.1	435	13.8	350	35.9	913	156	109
6"	150	22	560	22.1	562	17.7	450	45.7	1161	355	265
8"	200	26	660	26.1	663	19.7	500	54.0	1371	523	438
10"	250	31	788	31.1	790	25.2	640	60.5	1537	793	712
12"	300	33	838	33.1	841	26.8	680	67.6	1718	1220	1177
14"	350	35	889	35.12	892	28.3	720	75.7	1922	1619	1266
16"	400	39	991	39.12	994	29.9	760	80.9	2055	1989	1749
18"	450	43	1092	43.12	1095	35.0	890	86.9	2206	2639	2249
20"	500	47	1194	47.25	1200	42.9	1090	96.4	2448	3556	3140
24"	600	55	1397	55.38	1407	42.9	1090	133.9	3400	3700	3230
28"	700	61	1549	61.5	1562	40	1000*	142.2	3612	7865	6474
30"	750	65	1651	65.5	1664	40	1000*	149.6	3799	9029	7423
32"	800	70	1778	70.6	1794	40	1000*	159.9	4061	10806	8884
36"	900	82	2083	82.6	2098	40	1000*	177.6	4510	13000	10686

NPS	DN	L-L1		L2(RTJ)		W		H		WT(RF)	WT(BW)
		in	mm	in	mm	in	mm	in	mm		
2"	50	14.5	368	14.6	371	12	300	29.7	755	96	70
2-1/2"	65	16.5	419	16.6	422	10	250	31.4	797	120	85
3"	80	15	381	15.1	384	14	350	32.8	833	131	91
4"	100	18	457	18.1	461	16	400	35.9	911	224	143
6"	150	24	610	24.1	613	22	560	46.9	1190	832	647
8"	200	29	737	29.1	740	25	640	53.3	1353	900	720
10"	250	33	838	33.1	841	27	680	62.4	1586	1430	1053
12"	300	38	965	38.1	968	30	760	68.5	1740	1768	1596
14"	350	40.5	1029	40.9	1039	30	760	73.2	1860	2925	2612
16"	400	44.5	1130	44.88	1140	24	610*	85.8	2180	3705	3332

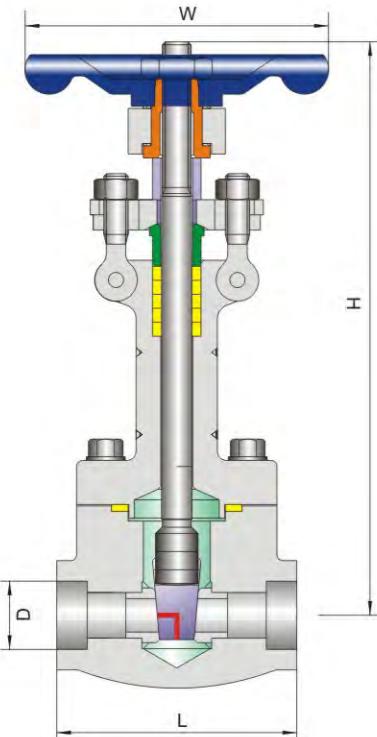
900LB

NPS	DN	L-L1		L2		W		H		WT(RF)	WT(BW)
		in	mm	in	mm	in	mm	in	mm		



CRYOGENIC GATE VALVE

FORGED STEEL



STANDARD MATERIALS

PART	FORGED
Body	ASTM A182 F316
Bonnet	ASTM A182 F316
Stem	ASTM A182 F316
Wedge	ASTM A182 F316 / STL.6
Seat	ASTM A182 F316 / STL.6
Flange	A182 A351 CF8M
Gland	ASTM A276 316
Packing	TFE, RTFE and Graphite
Gland stud	ASTM A193 B8/B8M
Gland nut	ASTM A194 8/8M
Body/bonnet nut	ASTM A194 8/8M
Body/bonnet stud	ASTM A193 B8/B8M
Gasket	SS spiral wound/ TFE or graphite
Handwheel nut	SS
Handwheel	Ductile iron
Name plate	SS 304
Rivet	SS
Stem nut	SS /Bronze

DIMENSIONS

800LB

NPS	Couv.	L		H(OPEN)		W		Weights	
		in	mm	in	mm	in	mm	Bolted	Welded
1/2"	3/8"	2.99	76	12.99	330	3.94	100	5	5
3/4"	1/2"	3.62	92	13.11	333	3.94	100	7	6
1"	3/4"	4.17	106	14.17	360	4.92	125	9	9
1 1/4"	1"	4.72	120	16.02	407	6.30	160	14	12
1 1/2"	1 1/4"	4.49	114	18.70	475	6.30	160	15	13
2"	1 1/2"	5.67	144	18.70	475	7.09	180	18	15
2 1/2"	2"	6.69	170	21.69	551	7.87	200	28	26

900LB

NPS	Couv.	L		H(OPEN)		W		Weights	
		in	mm	in	mm	in	mm	Bolted	Welded
1/2"	3/8"	4.37	111	7.76	197	4.92	125	4	4
3/4"	1/2"	4.37	111	7.76	197	4.92	125	4	4
1"	3/4"	4.72	120	9.29	236	6.30	160	7	6
1 1/4"	1"	4.72	120	9.69	246	6.30	160	9	9
1 1/2"	1 1/4"	5.51	140	11.14	283	7.09	180	13	12
2"	1 1/2"	6.69	170	12.99	330	7.87	200	17	17
2 1/2"	2"	8.27	210	13.94	354	8.27	210	24	22

1500LB

NPS	Couv.	L		H(OPEN)		W		Weights	
		in	mm	in	mm	in	mm	Bolted	Welded
1/2"	3/8"	4.37	111	7.76	197	4.92	125	4	4
3/4"	1/2"	4.37	111	7.76	197	4.92	125	4	4
1"	3/4"	4.72	120	9.29	236	6.30	160	7	6
1 1/4"	1"	4.72	120	9.69	246	6.30	160	9	9
1 1/2"	1 1/4"	5.51	140	11.14	283	7.09	180	13	12
2"	1 1/2"	6.69	170	12.99	330	7.87	200	17	17
2 1/2"	2"	8.27	210	13.94	354	8.27	210	24	22

CRYOGENIC GLOBE VALVE

Products Range

150LB	1/2" — 24"
300LB	1/2" — 14"
600LB	1/2" — 12"
800LB	1/2" — 2"
900LB	1/2" — 8"
1500LB	1/2" — 8"
2500LB	1/2" — 6"



Design Features

Meets ASME B16.34, BS1873, ASME B16.5, ASMEB16.10, BS 6364.

Low torques & long cycle life.

Bonnet extension.

Low emission design.

Full Stellite overlay on the seating surface.

Locking device (optional)

Live Loaded Gland Bolting (optional)

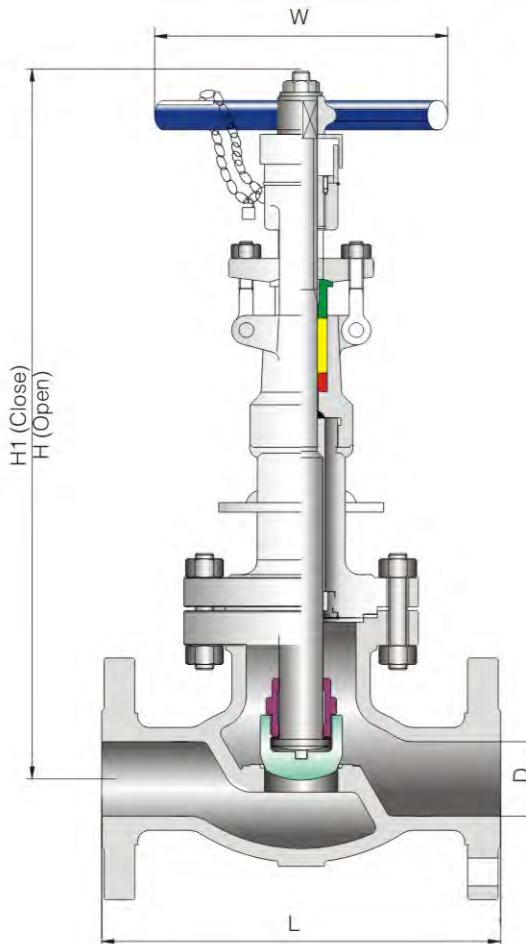
Seat or disc with PTFE or PCTFE inserts (Optional)





CRYOGENIC GLOBE VALVE

CAST STEEL



STANDARD MATERIALS

PART	CAST
Body	ASTM A351 CF8M
Seat	ASTM A182 F316+STL.6
Bonnet	ASTM A351 CF8M
Stem	ASTM A182 F316
Packing	Graphite
Gland Flange	ASTM A351 CF8M
Gland	ASTM A276 316
Gland stud	ASTM A193 B8/B8M
Gland nut	ASTM A194 8/8M
Bonnet nut	ASTM A194 8/8M
Bonnet stud	ASTM A193 B8/B8M
Back seat	SS 316
Gasket	SPW.SS316+Graphite
Handwheel nut	SS
Handwheel	Ductile iron
Name plate	SS 304
Disc nut	ASTM A182 F316
Disc	ASTM A182 F316+STL.6

DIMENSIONS

150LB

NPS	DN	L-L1 (RF-BW)		W	H	WT(RF)	WT(BW)
		in	mm				
in	mm	in	mm	8	203	22.5	572
2"	50	8	203	8	200	22.5	572
2-1/2"	65	8.5	216	8	200	24.9	632
3"	80	9.5	241	10	250	25.1	637
4"	100	11.5	292	12	300	26.9	683
5"	125	14	356	14	350	28.2	716
6"	150	16	406	14	350	29.6	751
8"	200	19.5	495	17.7	450	31.6	803
10"	250	24.5	622	17.7	450	35.2	895
12"	300	27.5	698	25.2	640	42.2	1073
14"	350	31	787	25.2	640	44.1	1121
16"	400	36	914	28.3	720	44.3	1124
18"	450	38.5	978	24	610	54.7	1390
20"	500	38.5	978	24	610	59.6	1513
24"	600	51	1295	31.9	810	69.8	1774

CRYOGENIC GLOBE VALVE

CAST STEEL

DIMENSIONS

300LB

NPS	DN	L-L1 (RF-BW)		W	H	WT(RF)	WT(BW)
		in	mm				
2"	50	10.5	267	8	200	23.6	600
2-1/2"	65	11.5	292	10	250	25.7	654
3"	80	12.5	318	10	250	25.8	656
4"	100	14.1	358	14	350	28.5	723
5"	125	15.7	400	18	450	32.5	826.5
6"	150	17.5	444	17.7	450	32.6	828
8"	200	22.0	559	17.7	450	41.4	1051
10"	250	24.5	622	22.0	560	42.2	1072
12"	300	28.0	711	25.2	640	44.9	1141
14"	350	33.0	838	30.3	770	45.8	1164
16"	400	34.0	864	24	610	65.1	1653
18"	450	38.5	978	38.5	610	67.3	1710
20"	500	40	1016	40	810	74.1	1882

600LB

NPS	DN	L-L1 (RF-BW)		L2(RTJ)		W	H	WT(RF)	WT(BW)
		in	mm	in	mm				
2"	50	11.5	292	11.6	295	10	250	26.2	666
2-1/2"	65	13	330	13.1	333	14	350	30.6	776
3"	80	14	356	14.1	359	14	350	31.0	787
4"	100	17.0	432	17.1	435	18	450	33.5	850
5"	125	20	508	20.1	511	20	500	37.4	950
6"	150	22	559	22.1	562	22	500	38.6	980
8"	200	26	660	26.1	663	24	640	44.3	1125
10"	250	31	787	31.1	790	28	720	46.0	1168
12"	300	33	838	33.1	841	24	720	48.1	1222

900LB

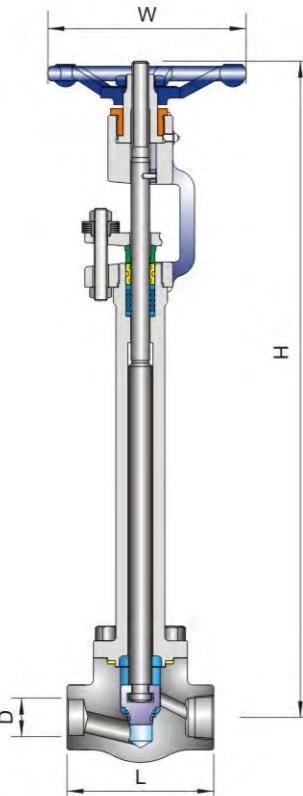
NPS	DN	L-L1 (RF-BW)		L2(RTJ)		W	H	WT(RF)	WT(BW)
		in	mm	in	mm				
2"	50	14.5	368	14.6	371	14	350	28.1	714.0
2-1/2"	65	16.5	419	16.6	422	14	350	35.8	910.0
3"	80	15	381	15.1	384	14	350	36.0	915.0
4"	100	18	457	18.1	460	17.7	450	36.5	926.0
6"	150	24	610	24.1	613	22.0	560	41.7	1059.0
8"	200	29.0	737	29.1	740	28.3	720	43.2	1097.0

1500LB

NPS	DN	L-L1		L2(RTJ)		W	H	WT(RF)	WT(BW)
		in	mm	in	mm				
2"	50	14.5	368	14.6	371	14	350	28.1	714
2-1/2"	65	16.5	419	16.6	422	14	350	32.4	822
3"	80	18.5	470	18.6	473	17.7	450	35.3	896
4"	100	21.5	546	21.6	549	19.7	500	39.6	1005
6"	150	27.8	705	28.0	711	25.2	640	44.6	1132
8"	200	32.8	832	33.1	842	24.0	610	59.5</td	

CRYOGENIC GLOBE VALVE

FORGED STEEL



STANDARD MATERIALS

PART	FORGED
Body	ASTM A182 F316
Seat	StL.6 Overlay on Body
Bonnet	ASTM A182 F316
Stem	ASTM A182 F316
Packing ring	Graphite
Gland flange	ASTM A351 CF8M
Gland	ASTM A276 316
Gland stud	ASTM A193 B8/B8M
Gland nut	ASTM A194 8/8M
Bonnet stud	ASTM A193 B8/B8M
Gasket	SPW. SS316+Graphite
Handwheel nut	SS
Handwheel	Ductile iron
Name plate	SS
Disc	ASTM A182 F316+StL.6

DIMENSIONS

NPS	Couv.	L		H(OPEN)		W		Weights	
		in	mm	in	mm	in	mm	Bolted	Welded
1/2"	3/8"	2.99	76	6.50	165	5.12	130	6	5
3/4"	1/2"	2.99	76	6.50	165	5.12	130	7	6
1"	3/4"	3.62	92	6.69	170	5.12	130	11	10
1 1/4"	1"	4.17	106	7.28	185	6.30	160	14	12
1 1/2"	1 1/4"	4.72	120	8.66	220	6.30	160	15	13
2"	1 1/2"	5.83	148	8.66	220	7.09	180	20	18
/	2"	6.77	172	11.02	280	7.87	200	29	27

800LB

Couv.	Full	L		H(CLOSE)		W		Weights	
		in	mm	in	mm	in	mm	Bolted	Welded
1/2"	3/8"	4.37	111	7.28	185	5.12	130	4	3
3/4"	1/2"	4.37	111	7.28	185	5.12	130	5	4
1"	3/4"	4.72	120	8.66	220	6.30	160	7	6
1 1/2"	1 1/4"	5.98	152	8.66	220	6.30	160	8	7
2"	1 1/2"	6.77	172	10.63	270	7.09	180	12	10
/	2"	8.66	220	11.02	280	7.87	200	15	14

900LB

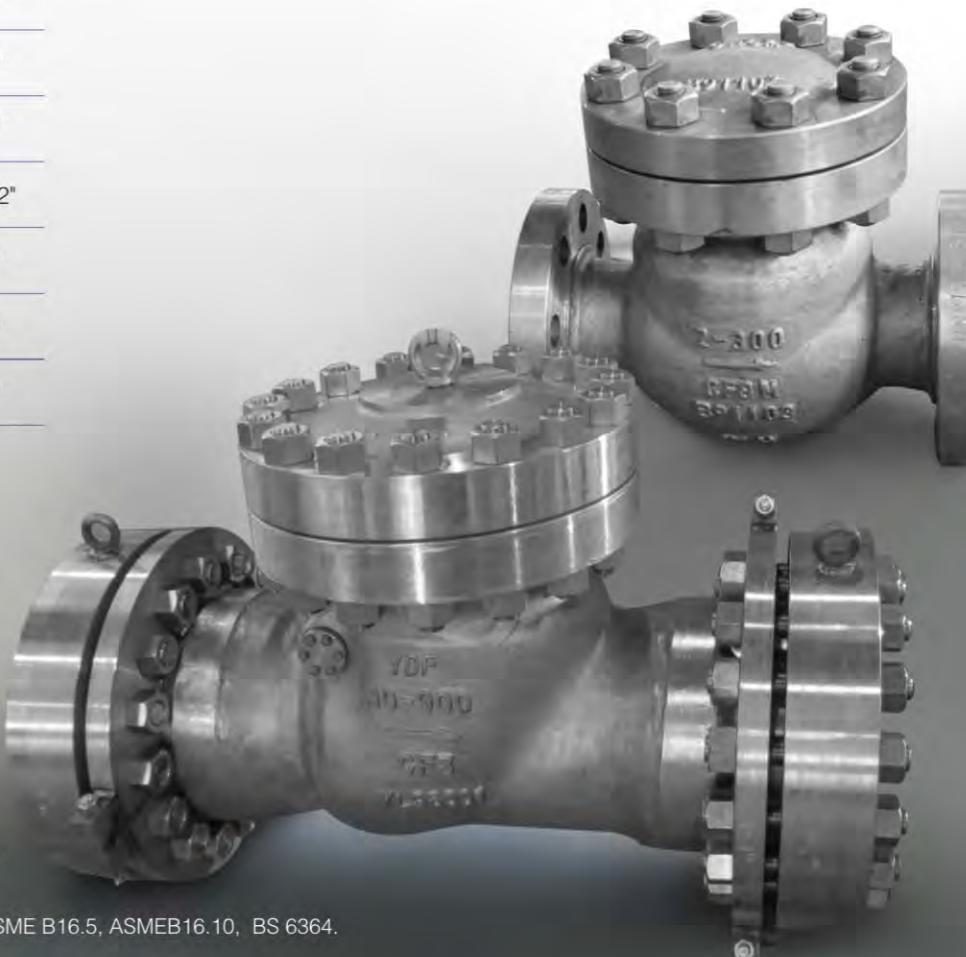
Couv.	Full	L		H(CLOSE)		W		Weights	
		in	mm	in	mm	in	mm	Bolted	Welded
1/2"	3/8"	4.37	111	7.28	185	5.12	130	4	3
3/4"	1/2"	4.37	111	7.28	185	5.12	130	5	4
1"	3/4"	4.72	120	8.66	220	6.30	160	7	6
1 1/2"	1 1/4"	5.98	152	8.66	220	6.30	160	8	7
2"	1 1/2"	6.77	172	10.63	270	7.09	180	12	10
/	2"	8.66	220	11.02	280	7.87	200	15	14

1500LB

CRYOGENIC CHECK VALVE

Products Range

150LB	1/2" — 32"
300LB	1/2" — 32"
600LB	1/2" — 28"
600LB	1/2" — 2-1/2"
900LB	1/2" — 24"
1500LB	1/2" — 18"
2500LB	1/2" — 10"



Design Features

Meets ASME B16.34, BS1868, ASME B16.5, ASMEB16.10, BS 6364.

Low emission design.

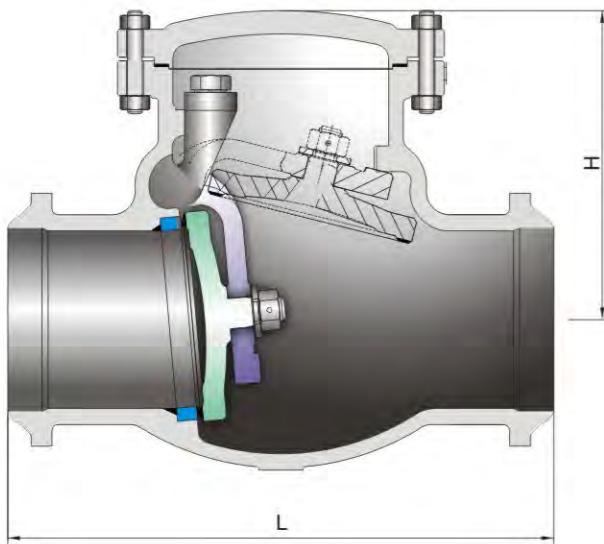
Full Stellite overlay on the seating surface.

Seat or disc with PTFE or PCTFE inserts (Optional).



**CRYOGENIC
CHECK VALVE**

CAST STEEL

**STANDARD MATERIALS**

PART	CAST
Body	ASTM A351 CF8M
Seat	ASTM A182 F316+STL.6
Hinge pin	ASTM A182 F316
Gasket	SPW. SS316+Graphite/SS316
Cover stud	ASTM A193 B8/B8M
Cover nut	ASTM A194 8/8M
Cover	ASTM A351 CF8M
Washer	Commercial
Disc	ASTM A351 CF8M+STL.6
Hinge	ASTM A351 CF8M
Disc nut	ASTM A194 8/8M

DIMENSIONS

150LB						
NPS	DN	L-L1 (RF-BW)		H	WT(RF)	WT(BW)
in	mm	in	mm	in	mm	kg
2"	50	8	203	6.0	153	15
2-1/2"	65	8.5	216	6.7	169	22
3"	80	9.5	241	7.1	181	28
4"	100	11.5	292	8.4	213	42
5"	125	13	330	10.6	268	57
6"	150	14	356	12.2	309	79
8"	200	19.5	495	14.4	367	131
10"	250	24.5	622	17.0	432	177
12"	300	27.5	698	19.8	502	282
14"	350	31	787	22.1	561	380
16"	400	34	864	23.3	592	542
18"	450	38.5	978	27.6	702	632
20"	500	38.5	978	28.0	710	855
24"	600	51	1295	32.6	827	970
26"	650	51	1295	35.3	897	1276
28"	700	57	1448	36.8	935	1600
30"	750	60	1524	38.2	970	2020
32"	800	60	1524	49.2	1058	2430
300LB						
NPS	DN	L-L1 (RF-BW)		H	WT(RF)	WT(BW)
in	mm	in	mm	in	mm	kg
2"	50	10.5	267	7.0	177	20
2-1/2"	65	11.5	292	7.2	182	30
3"	80	12.5	318	9.1	231	40
4"	100	14	356	10.5	266	65
5"	125	15.8	400	11.2	285	84
6"	150	17.5	444	12.7	323	118
8"	200	21	533	15.5	393	193
10"	250	24.5	622	16.7	424	310
12"	300	28	711	21.3	541	450
14"	350	33	838	23.9	608	595
16"	400	34	864	25.7	653	840
18"	450	38.5	978	28.2	716	933
20"	500	40	1016	27.4	696	1320
24"	600	53	1346	31.3	796	1848
26"	650	53	1346	36.6	930	2375
28"	700	59	1499	45.8	1163	2660
30"	750	62.8	1594	50	1270	3680
32"	800	68	1727	50	1270	3680

**CRYOGENIC
CHECK VALVE**

CAST STEEL

DIMENSIONS

NPS	DN	L-L1 (RF-BW)		L2 (RTJ)		H	WT(RF)	WT(BW)
		in	mm	in	mm			
2"	50	11.5	292	11.6	295	7.2	184	30
2-1/2"	65	13	330	13.1	333	8.3	210	43
3"	80	14	356	14.1	359	9.1	232	55
4"	100	17	432	17.1	435	10.4	263	93
5"	125	20	508	20.1	511	11.6	295	160
6"	150	22	559	22.1	562	14.7	374	208
8"	200	26	660	26.1	663	16.8	426	339
10"	250	31	787	31.1	790	20.4	517	375
12"	300	33	838	33.1	841	22.4	569	715
14"	350	35	889	35.1	892	24.5	622	885
16"	400	39	991	39.1	994	26.8	680	1310
18"	450	43	1092	43.1	1095	29.6	752	1620
20"	500	47	1194	47.3	1200	38.4	975	2120
24"	600	55	1397	55.4	1407	43.7	1111	3100
26"	650	57	1448	57.5	1461	43.7	1110	3800
28"	700	63	1600	63.5	1613	46.9	1192	4600

600LB

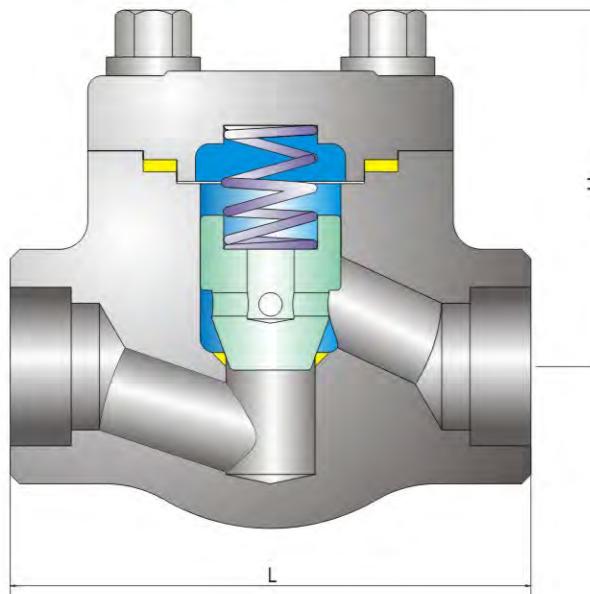
NPS	DN	L-L1 (RF-BW)		L2 (RTJ)		H	WT(RF)	WT(BW)
		in	mm	in	mm			
2"	50	14.5	368	14.6	372	11.2	284	70
2-1/2"	65	16.5	419	16.6	422	11.8	300	100
3"	80	15	381	15.1	384	12	305	110
4"	100	18	457	18.1	460	12.0	306	150
6"	150	24	610	24.1	613	16.7	423	305
8"	200	29.00393701	737	29.1	740	20	507	510
10"	250	33	838	33.1	841	22.9	582	810
12"	300	38	965	38.1	968	25.6	650	1120
14"	350	40.5	1029	40.9	1038	27	686	1380
16"	400	44.5	1130	44.9	1140	33.0	838	1900
18"	450	48.0	1219	48.5	1232	33.0	839	3000
20"	500	52.0	1321	52.5	1333	36.7	932	4000
24"	600	61.0	1549	61.7	1568	36.7	933	5200

900LB

NPS	DN	L-L1 (RF-BW)		L2 (RTJ)		H	WT(RF)	WT(BW)
		in	mm	in	mm			



**CRYOGENIC
CHECK VALVE**
FORGED STEEL



STANDARD MATERIALS

PART	FORGED
Body	ASTM A182 F316
Seat	STL.6 Overlay on Body
Gasket	SPW.SS 316+Graphite
Cover stud	ASTM A193 B8/B8M
Cover nut	ASTM A194 8/8M
Cover	ASTM A182 F316
Washer	Commercial
Disc	ASTM A182 F316+STL.6
Spring	SS 316

DIMENSIONS

800LB

NPS	Couv	L		H		Weights	
		in	mm	in	mm	Bolted	Welded
1/2"	3/8"	2.99	76	1.97	50	1.4	1.2
3/4"	1/2"	3.62	92	2.36	60	1.5	1.3
1"	3/4"	4.17	106	2.76	70	3.1	2.9
1 1/4"	1"	4.72	120	3.15	80	3.9	3.3
1 1/2"	1 1/4"	5.83	148	3.35	85	5.6	4.9
2"	1 1/2"	6.77	172	3.94	100	8.9	8.1
2 1/2"	2"	8.66	220	4.72	120	12.5	10.9

900LB

NPS	Couv	L		H		Weights	
		in	mm	in	mm	Bolted	Welded
1/2"	3/8"	4.37	111	2.95	75	1.6	1.3
3/4"	1/2"	4.37	111	2.95	75	3.4	3.2
1"	3/4"	4.37	111	2.95	75	3.5	3.3
1 1/4"	1"	4.72	120	3.94	100	5.5	4.8
1 1/2"	1 1/4"	5.98	152	4.33	110	6	5.4
2"	1 1/2"	6.77	172	4.72	120	9.2	8.5
2 1/2"	2"	8.66	220	5.51	140	12.9	11.2

1500LB

NPS	Couv	L		H		Weights	
		in	mm	in	mm	Bolted	Welded
1/2"	3/8"	4.37	111	2.95	75	1.6	1.3
3/4"	1/2"	4.37	111	2.95	75	3.4	3.2
1"	3/4"	4.37	111	2.95	75	3.5	3.3
1 1/4"	1"	4.72	120	3.94	100	5.5	4.8
1 1/2"	1 1/4"	5.98	152	4.33	110	6	5.4
2"	1 1/2"	6.77	172	4.72	120	9.2	8.5
2 1/2"	2"	8.66	220	5.51	140	12.9	11.2

YDF

Your Partner of Flow Control System

Product Warranty

Seller will replace without charge or refund the purchase price of products provided by seller which prove to be defective in material or workmanship, provided in each case that the product is properly installed and is used in the service for which Seller recommends it and that written claim, specifying the alleged defect, is presented to the seller within 18 months from the date of shipment or 12 months after installation, whichever occurs first. Seller shall in no event bear any labor, equipment, engineering or other costs incurred in connection with repair or replacement.

The warranty stated in this paragraph is in lieu of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and seller's exclusive liability.

We confirm spare kit availability during warranty period and periods following the warranty duration.