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## SHANGHAI OILONG VALVE

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Profession | Reliability | Efficiency



Small Forged Gate / Globe / Check Valves

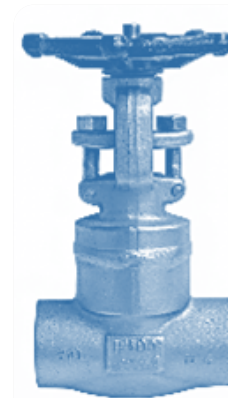
## FORGED STEEL VALVES

Design Standard: API 602/ASME B16.34

Size Range: 1/2" ~ 2"

Pressure Class: 150 ~ 2500

End Connection: NPT / SW / Flanged

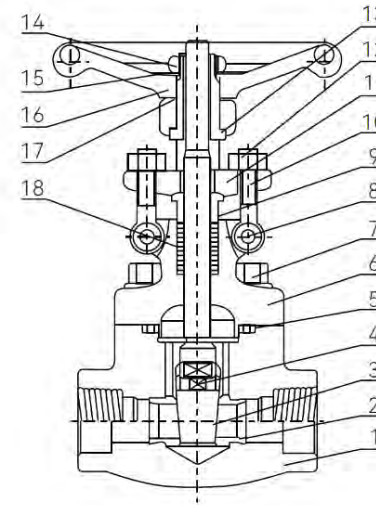


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**Forged Steel Gate Valve**

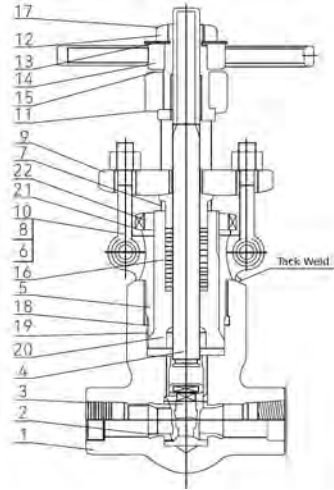
**Design Features:**

- ✧ Bolted Bonnet or Welded Bonnet, Pressure Seal Bonnet
- ✧ OS&Y, Rising Stem, Solid Wedge, Standard Port
- ✧ Extended Bonnet & Pup Ends upon Request



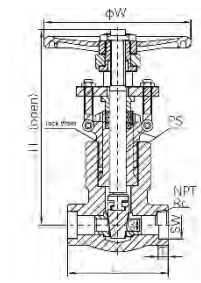
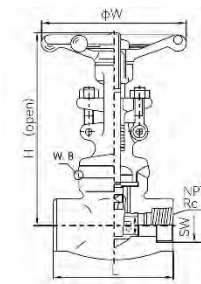
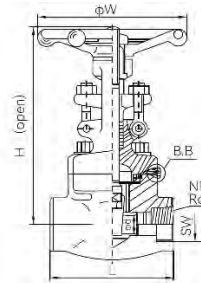
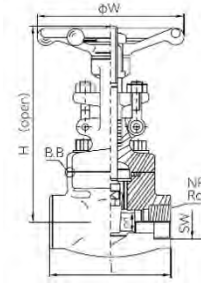
DESIGN AND MANUFACTURING STANDARDS	
DESIGN:	API 602 / ASME B16.34
TEST:	API 598
PRESSURE CLASS:	NPT & SW – 800, 900,1500 FLANGED – 150,300,600,900,1500,2500
NPT:	ASME B1.20.1
SW:	ASME B16.11
FLANGED:	ASME B16.5
FACE TO FACE	ASME B16.10

NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105N	A105N	A350 LF2	A182 F11	A182 F304(L)	A182 F316(L)	A182 F51
2	Seat	A276 410	A276 410/HF	A276 304	A276 410/HF	A182 304(L)	A182 316(L)	A182 F51
3	Wedge	A276 410	A276 410	A276 304	F6aHF	A182 F304(L)	A182 F316(L)	A182 F51
4	Stem	A276 410	A276 410	A276 304	A276 410	A182 304(L)	A182 316(L)	A182 F51
5	Gasket	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite
6	Bonnet	A105N	A105N	A350 LF2	A182 F11	A182 F304(L)	A182 F316(L)	A182 F51
7	Bolt	B7/B7M	B7/B7M	L7/L7M	B16	B8(M)	B8(M)	B8M
8	Pin	A276 410	A276 410	A276 410	A276 410	A276 304	A276 304	A276 316
9	Gland	A276 410	A276 410	A276 304	A276 410	A276 304	A276 316	A182 F51
10	Eyebolt	B7/B7M	B7/B7M	L7/L7M	B16	B8/B8M	B8/B8M	B8M
11	Gland Flange	A105N	A105N	A350 LF2	A182 F11	A182 F304(L)	A182 F304	A182 304
12	Hex nut	2H/2HM	2H/2HM	2H/2HM	2H/2HM	B8/B8M	B8/B8M	8M
13	Stem nut	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410
14	Locking Nut	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020
15	Nameplate	Aluminum	Aluminum	Aluminum	SS 304	SS 304	SS 304	SS 304
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
17	Lubricating Gasket	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite



DESIGN AND MANUFACTURING STANDARDS	
DESIGN:	API 602 / ASME B16.34
TEST:	API 598
PRESSURE CLASS:	NPT & SW – 800, 900, 1500
	FLANGED – 150, 300, 600, 900, 1500, 2500
NPT:	ASME B1.20.1
SW:	ASME B16.11
FLANGED:	ASME B16.5
FACE TO FACE	ASME B16.10

NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	A350 LF2	A182 F11	A182 F304(L)	A182 F316(L)	A182 F91
2	Seat	A276 410	A276 410HF	A276 304	A276 410HF	304(L)	A276 316(L)	A276 410HF
3	Wedge	F6a	F6a	A182 F304	F6aHF	A182 F304(L)	A182 F316(L)	F6aHF
4	Stem	A276 410	A276 410	A276 304	A276 410	A276 304(L)	A276 316(L)	A276 410
5	Bonnet	A105	A105	A350 LF2	A182 F11	A182 F304(L)	A182 F316(L)	A182 F91
6	Pin	A276 410	A276 410	A276 410	A276 410	A276 304	A276 304	A276 410
7	Gland	A276 410	A276 410	A276 304	A276 410	A276 304	A276 316	A276 410
8	Gland Eyebolt	B7/B7M	B7/B7M	L7/L7M	B16	B8/B8M	B8/B8M	B8/B8M
9	Gland Flange	A105	A105	A350 LF2	A182 F11	A182 F304	A182 F304	A182 F91
10	Hex Nut	2H/2HM	2H/2HM	2H/2HM	2H/2HM	8/8M	8/8M	8/8M
11	Stem Nut	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410
12	Locking Nut	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020
13	Nameplate	Aluminum	Aluminum	Aluminum	SS 304	SS 304	SS 304	SS 304
14	Handwheel	A197	A197	A197	A197	A197	A197	A190
15	Lubricating Gasket	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410
16	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
17	Stop Nut	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020
18	Seal Gasket	A276 420	A276 420	A276 304	A276 304	A276 304(L)	A276 316(L)	A276 420
19	PS.ring	A276 304	A276 304	A276 304	A276 304	A276 304	A276 316	A276 316
20	PS.seat	A276 420	A276 420	A276 304	A276 304	A276 304(L)	A276 316(L)	A182 F91
21	Nut Pad	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410
22	Packing Nut	Cast steel	Cast steel	Cast steel	Cast steel	Stainless steel	Stainless steel	Cast steel



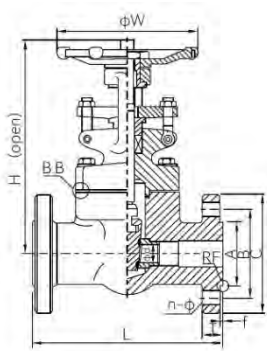
CLASS 800 SW / NPT		DIMENSIONS (mm)		BOLTED BONNET	
DN	NPS	φd	L	H(open)	φW
15	1/2"	10.5	79	158	100
20	3/4"	13	92	160	100
25	1"	17.5	111	197	125
32	1-1/4"	24	120	228	160
40	1-1/2"	29	120	246	160
50	2"	36.5	140	290	180
15	1/2"	10.5	79	158	100
20	3/4"	13	92	160	100
25	1"	17.5	111	197	125

CLASS 1500 SW / NPT		DIMENSIONS (mm)		BOLTED BONNET	
DN	NPS	φd	L	H(open)	φW
15	1/2"	10.5	111	200	125
20	3/4"	13	111	200	125
25	1"	17.5	120	228	160
32	1-1/4"	24	120	255	160
40	1-1/2"	29	140	290	180
50	2"	36.5	178	316	200
15	1/2"	10.5	111	200	125
20	3/4"	13	111	200	125
25	1"	17.5	120	228	160

CLASS 1500 SW / NPT		DIMENSIONS (mm)		WELDED BONNET	
DN	NPS	φd	L	H(open)	φW
15	1/2"	10.5	140	333	200
20	3/4"	13	140	333	200
25	1"	17.5	140	333	200
32	1-1/4"	24	180	408	250
40	1-1/2"	29	180	408	250
50	2"	36.5	218	524	280
15	1/2"	10.5	140	333	200
20	3/4"	13	140	333	200
25	1"	17.5	140	333	200

CLASS 2500 SW / NPT		DIMENSIONS (mm)		PRESSURE SEAL BONNET	
DN	NPS	φd	L	H(open)	φW
15	1/2"	10.5	186	345	250
20	3/4"	13	186	345	250
25	1"	17.5	186	345	250
32	1-1/4"	24	228	460	280
40	1-1/2"	29	228	460	280
50	2"	36.5	276	520	280
15	1/2"	10.5	186	345	250
20	3/4"	13	186	345	250
25	1"	17.5	186	345	250

Note: All related data and parameters are for reference only and are subject to change without notice.


**CL150 RF FORGED STEEL GATE VALVE**

NPS	φd	L	H(open)	φW	A	B	C	T	f	n-φ
1/2"	10.5	108	155	100	35	60.5	90	11.6	2	4-16
3/4"	13	117	157	100	43	70	100	13.2	2	4-16
1"	17.5	127	186	125	51	79.5	110	14.7	2	4-16
1-1/4"	24	140	220	160	63.5	89	115	16.3	2	4-16
1-1/2"	29	165	246	160	73	98.5	125	17.9	2	4-16
2"	36.5	178	268	180	92	120.5	150	19.5	2	4-19

**CL300 RF FORGED STEEL GATE VALVE**

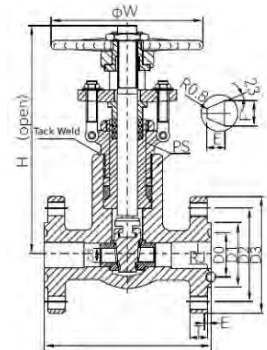
NPS	φd	L	H(open)	φW	A	B	C	T	f	n-φ
1/2"	10.5	140	161	100	35	66.5	95	14.7	2	4-16
3/4"	13	152	163	100	43	82.5	115	16.3	2	4-19
1"	17.5	165	200	125	51	89	125	17.9	2	4-19
1-1/4"	24	178	218	160	63.5	98.5	135	19.5	2	4-19
1-1/2"	29	190	253	160	73	114.5	155	21.1	2	4-22
2"	36.5	216	290	180	92	127	165	22.7	2	8-19

**CL600 RF FORGED STEEL GATE VALVE**

NPS	φd	L	H(open)	φW	A	B	C	T	f	n-φ
1/2"	10.5	165	161	100	35	66.5	95	21.3	7	4-16
3/4"	13	190	163	100	43	82.5	115	23	7	4-19
1"	17.5	216	200	125	51	89	125	24.5	7	4-19
1-1/4"	24	229	218	160	63.5	98.5	135	27.7	7	4-19
1-1/2"	29	241	253	160	73	114.5	155	29.3	7	4-22
2"	36.5	292	290	180	92	127	165	32.4	7	8-19

**CL900 RF FORGED STEEL GATE VALVE**

NPS	φd	L	H(open)	φW	A	B	C	T	f	n-φ
1/2"	10.5	216	200	250	35	82.5	120	29.5	7	4-22
3/4"	13	229	200	125	43	89	130	32.5	7	4-22
1"	17.5	254	218	160	51	101.5	150	36	7	4-26
1-1/4"	24	279	253	160	63.5	111	160	36	7	4-26
1-1/2"	29	305	290	180	73	124	180	39	7	4-29


**CL1500 RTJ FORGED STEEL GATE VALVE**

NPS	L	H(open)	φW	D0	D1	D2	D3	T	E	F	n-φ	φW
1/2"	216	321	250	39.67	60.5	82.5	120	22.5	6.4	8.74	4-22	10.5
3/4"	229	321	250	44.45	66.5	89	130	25.5	6.4	8.74	4-22	13
1"	254	321	250	50.80	71.5	101.5	150	29.5	6.4	8.74	4-26	17.5
1-1/4"	279	414	280	60.33	81	111.3	160	29.5	6.4	8.74	4-26	24
1-1/2"	305	414	280	68.28	92	124	180	32	6.4	8.74	4-29	29
2"	371	502	280	95.25	124.0	165.1	216	38.5	7.92	11.91	8-26	36.5

**CL2500 RTJ FORGED STEEL GATE VALVE**

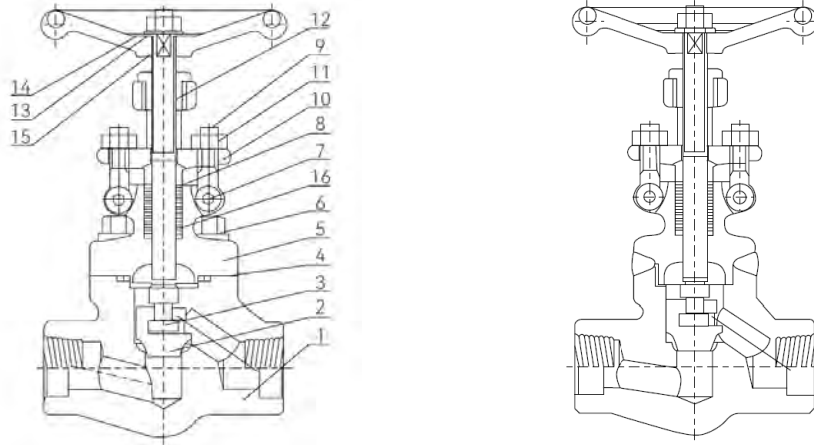
NPS	L	H(open)	φW	D0	D1	D2	D3	T	E	F	n-φ	φW
1/2"	264	321	160	42.88	65	89	135	30.5	6.4	8.74	4-22	10.5
3/4"	273	321	160	50.88	73	95.2	140	32	6.4	8.74	4-22	13.5
1"	308	321	180	60.32	82.5	108	160	35	6.4	8.74	4-26	17.5
1-1/4"	352	408	200	72.24	102	130.2	185	38.2	7.92	11.91	4-30	24
1-1/2"	387	406	200	82.55	114	146	205	45	7.92	11.91	4-32	29
2"	454	495	249	101.6	133	171	235	51	7.92	11.91	8-29	36.5

Note: All related data and parameters are for reference only and are subject to change without notice.

**Forged Steel Globe Valve**


## Design Features:

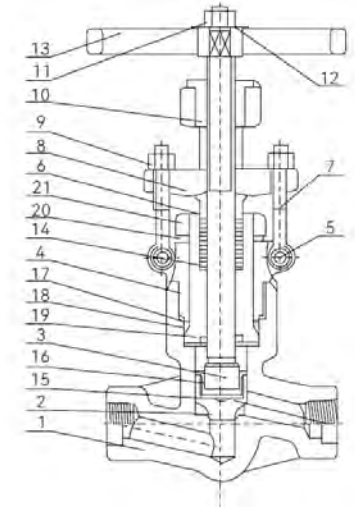
- ✧ Bolted Bonnet or Welded Bonnet, OS&Y
- ✧ Rising Stem, Plug/Needle Type Disc
- ✧ Standard Port or Full Port
- ✧ Extended Bonnet & Pup Ends upon Request



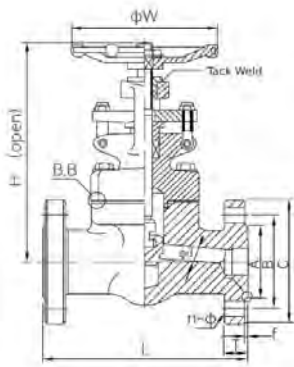
NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105N	A105N+HF	A350 LF2	A182 F11+HF	A182 F304(L)	A182 F316(L)	A182 F51
2	Disc	A276 410	A276 410	A276 304	F6aHF	A182 F304(L)	A182 F316(L)	A182 F51
3	Stem	A276 410	A276 410	A276 304	A276 410	A182 304(L)	A182 316(L)	A182 F51
4	Gasket	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite
5	Bonnet	A105N	A105N	A350 LF2	A182 F11	A182 F304(L)	A182 F316(L)	A182 F51
6	Bolt	B7/B7M	B7/B7M	L7/L7M	B16	B8(M)	B8(M)	B8M
7	Pin	A276 410	A276 410	A276 410	A276 410	A276 304	A276 304	A276 316
8	Gland	A276 410	A276 410	A276 304	A276 410	A276 304	A276 316	A182 F51
9	Eyebolt	B7/B7M	B7/B7M	L7/L7M	B16	B8/B8M	B8/B8M	B8M
10	Gland Flange	A105N	A105N	A350 LF2	A182 F11	A182 F304(L)	A182 F304	A182 304
11	Hex nut	2H/2HM	2H/2HM	2H/2HM	2H/2HM	B8/B8M	B8/B8M	8M
12	Stem nut	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410
13	Locking Nut	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020
14	Nameplate	Aluminum	Aluminum	Aluminum	SS 304	SS 304	SS 304	SS 304
15	Handwheel	A197	A197	A197	A197	A197	A197	A197
16	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite

**DESIGN AND MANUFACTURING STANDARDS**

DESIGN:	API 602 / ASME B16.34
TEST:	API 598
PRESSURE CLASS:	NPT & SW – 800, 900,1500 FLANGED – 150,300,600,900,1500,2500
NPT:	ASME B1.20.1
SW:	ASME B16.11
FLANGED:	ASME B16.5
FACE TO FACE	ASME B16.10



NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	A350 LF2	A182 F11	A182 F304(L)	A182 F316(L)	A182 F91
2	Disc	F6a	F6a	A182 F304	F6a	A182 F304(L)	A182 F316(L)	F6a+HF
3	Stem	A276 410	A276 410	A276 304	A276 410	A276 304(L)	A276 316(L)	A276 410
4	Bonnet	A105	A105	A350 LF2	A182 F11	A182 F304(L)	A182 F316(L)	A182 F91
5	Pin	A276 410	A276 410	A276 410	A276 410	A276 304	A276 304	A276 410
6	Gland	A276 410	A276 410	A276 304	A276 410	A276 304	A276 316	A276 410
7	Gland Eyebolt	B7/B7M	B7/B7M	L7/L7M	B16	B8/B8M	B8/B8M	B8/B8M
8	Gland Flange	A105	A105	A350 LF2	A182 F11	A182 F304	A182 F304	A182 F91
9	Hex Nut	2H/2HM	2H/2HM	2H/2HM	2H/2HM	8/8M	8/8M	8/8M
10	Stem Nut	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410
11	Locking Nut	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020	A108 1020
12	Nameplate	Aluminum	Aluminum	Aluminum	SS 304	SS 304	SS 304	SS 304
13	Handwheel	A197	A197	A197	A197	A197	A197	A197
14	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
15	Stem Washer	A276 420	A276 420	A276 420	A276 420	316SS	316SS	A276 420
16	Disc Nut	A276 410	A276 410	A276 410	A276 304	A276 304(L)	A276 316(L)	A276 410
17	Seal Gasket	A276 420	A276 420	A276 304	A276 304	A276 304(L)	A276 316(L)	316(L)
18	PS. Ring	A276 304	A276 304	A276 304	A276 304	A276 304	A276 316	A276 316
19	PS. Seat	A276 420	A276 420	A276 304	A276 304	A276 304(L)	A276 316(L)	A182 F91
20	Nut Pad	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410
21	Packing Nut	Cast steel	Cast steel	Cast steel	Cast steel	Stainless steel	Stainless steel	Cast steel



**CL150 RF FORGED STEEL GLOBE VALVE**

NPS	φd	L	H(open)	φW	A	B	C	T	f	n-φ
1/2"	10.5	108	158	100	35	60.5	90	11.6	2	4-16
3/4"	13	117	160	100	43	70	100	13.2	2	4-16
1"	17.5	127	198	125	51	79.5	110	14.5	2	4-16
1-1/4"	24	140	226	160	63.5	89	115	16	2	4-16
1-1/2"	29	165	246	160	73	98.5	125	17.5	2	4-16
2"	36.5	203	290	180	92	120.5	150	19.5	2	4-19

**CL300 RF FORGED STEEL GLOBE VALVE**

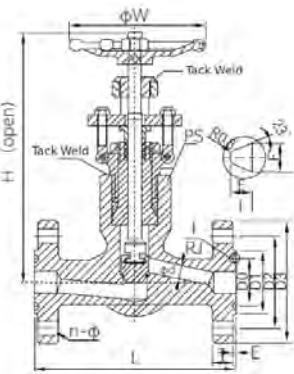
NPS	φd	L	H(open)	φW	A	B	C	T	f	n-φ
1/2"	10.5	152	170	100	35	66.5	95	14.7	2	4-16
3/4"	13	178	172	100	43	82.5	115	16.3	2	4-19
1"	17.5	203	206	125	51	89	125	17.9	2	4-19
1-1/4"	24	216	230	160	63.5	98.5	135	19.5	2	4-19
1-1/2"	29	229	262	160	73	114.5	155	21.1	2	4-22
2"	36.5	267	296	180	92	127	165	22.7	2	8-19

**CL600 RF FORGED STEEL GLOBE VALVE**

NPS	φd	L	H(open)	φW	A	B	C	T	f	n-φ
1/2"	10.5	165	170	100	35	66.5	95	21.3	7	4-16
3/4"	13	190	172	100	43	82.5	115	23	7	4-19
1"	17.5	216	206	125	51	89	125	24.5	7	4-19
1-1/4"	24	229	230	160	63.5	98.5	135	27.7	7	4-19
1-1/2"	29	241	262	160	73	114.5	155	29.3	7	4-22
2"	36.5	292	296	180	92	127	165	32.4	7	8-19

**CL900 RF FORGED STEEL GLOBE VALVE**

NPS	φd	L	H(open)	φW	A	B	C	T	f	n-φ
1/2"	10.5	216	206	125	35	82.5	120	29.5	7	4-22
3/4"	13	229	206	125	43	89	130	32.5	7	4-22
1"	17.5	254	230	160	51	101.5	150	36	7	4-26
1-1/4"	24	279	262	160	63.5	111	160	36	7	4-26
1-1/2"	29	305	296	180	73	124	180	39	7	4-29
2"	36.5	368	345	250	92	165	215	45.5	7	8-26



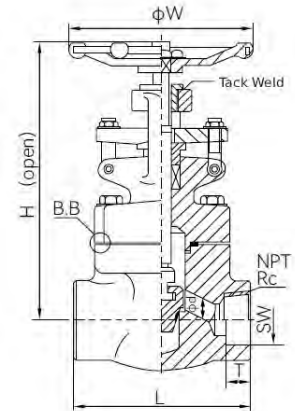
**CL1500 RTJ FORGED STEEL GLOBE VALVE**

NPS	L	H(open)	φW	D0	D1	D2	D3	T	E	F	n-φ	φW
1/2"	216	321	250	39.67	60.5	82.5	120	22.5	10.5	6.4	8.74	4-22
3/4"	229	321	250	44.45	66.5	89	130	25.5	13	6.4	8.74	4-22
1"	254	321	250	50.8	71.5	101.5	150	29.5	18	6.4	8.74	4-26
1-1/4"	279	414	280	60.33	81	111.3	160	29.5	23	6.4	8.74	4-26
1-1/2"	305	414	280	68.28	92	124	180	32	29	6.4	8.74	4-29
2"	371	502	280	95.25	124	165.1	216	38.5	36	7.92	11.91	8-26

**CL2500 RTJ FORGED STEEL GLOBE VALVE**

NPS	L	H(open)	φW	D0	D1	D2	D3	T	E	F	n-φ	φW
1/2"	264	333	250	42.88	65	89	135	30.5	10.5	6.4	8.74	4-22
3/4"	273	333	250	50.8	73	95.2	40	32	13	6.4	8.74	4-22
1"	308	333	250	60.32	82.5	108	160	35	18	6.4	8.74	4-26
1-1/4"	352	408	280	72.24	102	130.2	185	38.2	23	7.92	11.91	4-30
1-1/2"	387	408	280	82.55	114	146	203	45	29	7.92	11.91	4-32
2"	454	524	280	101.6	133	171.4	235	51	36	7.92	11.9	8-29

Note: All related data and parameters are for reference only and are subject to change without notice.



**CLASS 800 SW / NPT DIMENSIONS (mm) BOLTED BONNET**

DN	NPS	φd	L	H(open)	φW
15	1/2"	10.5	79	158	100
20	3/4"	13	92	160	100
25	1"	17.5	111	197	125
32	1-1/4"	24	120	228	160
40	1-1/2"	29	152	246	160
50	2"	36.5	172	290	180

**CLASS 1500 SW / NPT DIMENSIONS (mm) BOLTED BONNET**

DN	NPS	φd	L	H(open)	φW
15	1/2"	10.5	92	206	125
20	3/4"	13	111	206	125
25	1"	17.5	120	230	160
32	1-1/4"	24	152	262	160
40	1-1/2"	29	172	296	180
50	2"	36.5	216	335	200

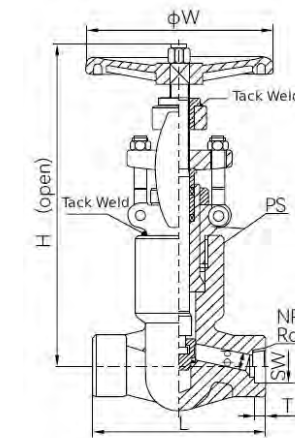
**CLASS 1500 SW / NPT DIMENSIONS (mm) WELDED BONNET**

DN	NPS	φd	L	H(open)	φW
15	1/2"	10.5	140	333	200
20	3/4"	13.5	140	333	200
25	1"	17.5	140	333	200
32	1-1/4"	24	178	408	250
40	1-1/2"	29	178	408	250
50	2"	36.5	216	520	280

**CLASS 2500 SW / NPT DIMENSIONS (mm) PRESSURE SEAL BONNET**

DN	NPS	φd	L	H(open)	φW
15	1/2"	10.5	186	350	250
20	3/4"	13.5	186	350	250
25	1"	17.5	186	350	250
32	1-1/4"	24	232	480	280
40	1-1/2"	29	232	480	280
50	2"	36.5	279	530	280

Note: All related data and parameters are for reference only and are subject to change without notice.



### Forged Steel Check Valve



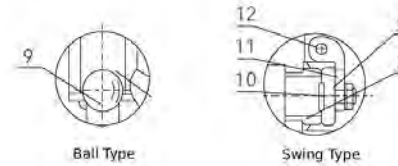
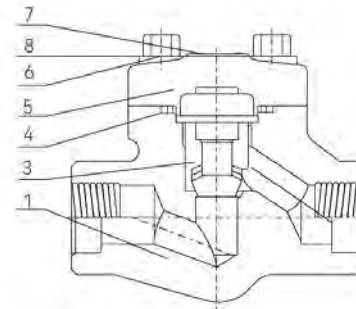
#### Design Features:

- ✦ Bolted Bonnet or Welded Bonnet
- ✦ Swing Type, Lift Type, or Ball Type Check Valve
- ✦ Standard Port or Full Port
- ✦ Threaded Ends, Socket Welding Ends or Flanged Ends

### FORGED STEEL CHECK VALVES

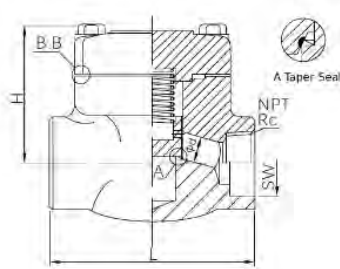
SIZES: 1/2" TO 2" PRESSURE CLASS: 150 TO 2500

Your Reliable Partner

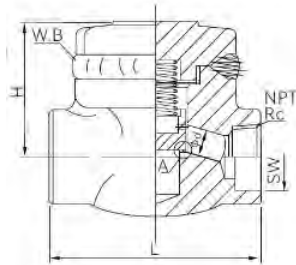


DESIGN AND MANUFACTURING STANDARDS	
DESIGN:	API 602 / ASME B16.34
TEST:	API 598
PRESSURE CLASS:	NPT & SW – 800, 900, 1500 FLANGED – 150, 300, 600, 900, 1500, 2500
NPT:	ASME B1.20.1
SW:	ASME B16.11
FLANGED:	ASME B16.5
FACE TO FACE:	ASME B16.10

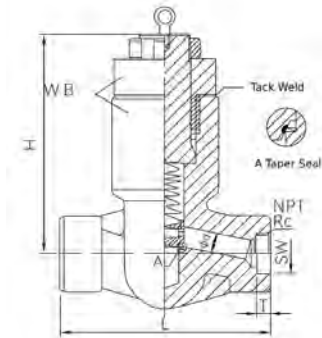
NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	A350 LF2	A182 F11	A182 F304(L)	A182 F316(L)	A182 F51
2	Seat ring	A276 410	410+HF	A276 F304	410+HF	A276 304(L)	A276 F316(L)	A182 F51
3	Disc	A276 410	A276 410	A276 F304	F6a+HF	A276 F304(L)	A276 F316(L)	A182 F51
4	Gasket	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite
5	Bonnet	A105	A105	A350 LF2	A182 F11	A182 F304(L)	A182 F316(L)	A182 F51
6	Bolt	A193-B7	A193-B7	A320 L7	A193-B16	A193-B8(M)	A193-B8(M)	A193-B8M
7	Nameplate	Aluminum	Aluminum	Aluminum	SS 304	SS 304	SS 304	SS 304
8	Revit	Aluminum	Aluminum	Aluminum	SS 304	SS 304	SS 304	SS 304
9	Steel ball	A276 430	A276 430	SS 304	STL	SS 316(L)	SS 316(L)	STL
10	Disc nut	A194-2H	A194-2H	A194-8	A194-8	A194-8(M)	A194-8(M)	A194-8M
11	Hinge	A276 410	A276 410	A276 304	A276 410	A276 316(L)	A276 316(L)	A182 F51
12	Pin	A276 410	A276 410	A276 304	A276 410	A276 304(L)	A276 316(L)	A182 F51



BOLTED BONNET



WELDED BONNET



PRESSURE SEAL COVER

**CL800 FORGED PISTON CHECK VALVE**

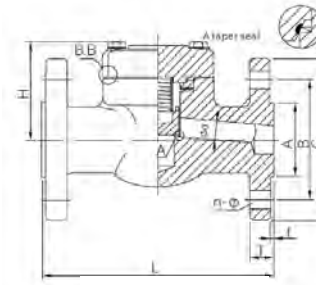
DN	NPS	φd	L	H	ENDS
15	1/2"	10.5	79	55	SW NPT
20	3/4"	13	92	58	
25	1"	18	111	78	
32	1-1/4"	24	120	88	
40	1-1/2"	29	152	96	
50	2"	36.5	172	108	

**CL1500 FORGED PISTON CHECK VALVE**

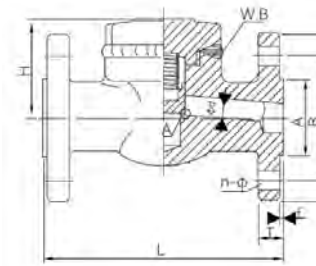
DN	NPS	φd	L	H	ENDS
15	1/2"	10.5	111	80	SW NPT
20	3/4"	13	111	80	
25	1"	18	120	90	
32	1-1/4"	24	152	101	
40	1-1/2"	29	172	120	
50	2"	36.5	216	135	

**CL2500 RF FORGED PISTON CHECK VALVE**

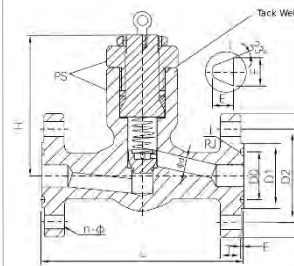
DN	NPS	φd	L	H	ENDS
15	1/2"	10.5	186	175	SW NPT
20	3/4"	13.5	186	175	
25	1"	18	186	175	
32	1-1/4"	24	228	205	
40	1-1/2"	29	228	205	
50	2"	36.5	276	215	



BOLTED BONNET



WELDED BONNET



PRESSURE SEAL COVER

**CL150 RF FORGED STEEL PISTON CHECK VALVE**

NPS	φd	L	H	A	B	C	T	f	n-φ
1/2"	10.5	108	56	35	60.5	90	11.6	2	4-16
3/4"	13	117	58	43	70	100	13.2	2	4-16
1"	18	127	78	51	79.5	110	14.5	2	4-16
1-1/4"	24	140	88	63.5	89	115	16	2	4-16
1-1/2"	29	165	96	73	98.5	125	17.5	2	4-16
2"	36.5	203	108	92	120.5	150	19.5	2	4-19

**CL300 RF FORGED STEEL PISTON CHECK VALVE**

NPS	φd	L	H	A	B	C	T	f	n-φ
1/2"	10.5	152	63	35	66.5	95	14.7	2	4-16
3/4"	13	178	65	43	82.5	115	16.3	2	4-19
1"	18	203	80	51	89	125	17.9	2	4-19
1-1/4"	24	216	90	63.5	98.5	135	19.5	2	4-19
1-1/2"	29	229	103	73	114.5	155	21.1	2	4-22
2"	36.5	267	122	92	127	165	22.7	2	8-19

**CL600 RF FORGED STEEL PISTON CHECK VALVE**

NPS	φd	L	H	A	B	C	T	f	n-φ
1/2"	10.5	165	63	35	66.5	95	21.3	7	4-16
3/4"	13	190	65	43	82.5	115	23	7	4-19
1"	18	216	80	51	89	125	24.5	7	4-19
1-1/4"	24	229	90	63.5	98.5	135	27.7	7	4-19
1-1/2"	29	241	103	73	114.5	155	29.3	7	4-22
2"	36.5	292	122	92	127	165	32.4	6.4	8-19

**CL900 RF FORGED STEEL PISTON CHECK VALVE**

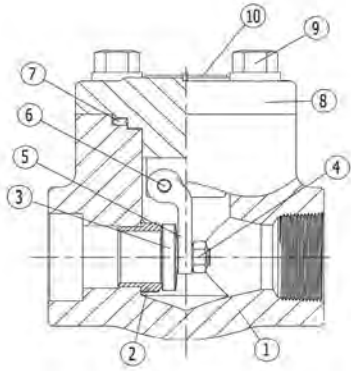
NPS	φd	L	H	A	B	C	T	f	n-φ
1/2"	10.5	216	65	35	82.5	120	29.5	7	4-22
3/4"	13	229	80	43	89	130	32.5	7	4-22
1"	18	254	90	51	101.5	150	36	7	4-26
1-1/4"	24	279	103	63.5	111	160	36	7	4-26
1-1/2"	29	305	122	73	124	180	39	7	4-29
2"	36.5	368	135	92	165	215	45.5	7	8-26

**CL1500 RTJ FORGED STEEL PISTON CHECK VALVE**

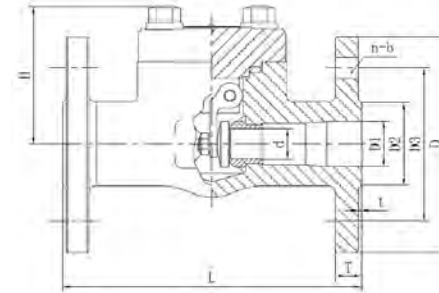
NPS	L	H	D0	D1	D2	D3	T	E	F	n-φ
1/2"	216	175	39.67	60.5	82.5	120	22.5	6.35	8.74	4-22
3/4"	229	175	44.45	66.5	89.0	130	25.5	6.35	8.74	4-22
1"	254	175	50.80	71.5	101.5	150	29.5	6.35	8.74	4-26
1-1/4"	279	205	60.33	81	111.3	160	29.5	6.35	8.74	4-26
1-1/2"	305	205	68.28	92.0	124	180	32.0	6.35	8.74	4-29
2"	371	215	95.25	124.0	165.1	216	38.5	7.92	11.91	8-26

**CL2500 RTJ FORGED STEEL PISTON CHECK VALVE**

NPS	L	H(open)	D0	D1	D2	D3	T	E	F	n-φ
1/2"	264	175	42.88	73.0	89.0	135	30.5	6.4	8.74	4-22
3/4"	273	175	50.80	82.5	95.2	140.0	32.0	6.4	8.74	4-22
1"	308	175	60.32	102	108.0	160	35.0	6.4	8.74	4-26
1-1/4"	352	205	72.24	114.0	130.2	185	38.2	7.9	11.91	4-30
1-1/2"	387	205	82.55	146.0	146.0	205.0	45.0	7.9	11.91	4-32


**DESIGN AND MANUFACTURING STANDARDS**

DESIGN:	API 602 / ASME B16.34
TEST:	API 598
PRESSURE CLASS:	NPT & SW – 800, 1500 FLANGED – 150,300,600,900,1500,2500
NPT:	ASME B1.20.1
SW:	ASME B16.11
FLANGED:	ASME B16.5
FACE TO FACE	ASME B16.10



NO.	Part name	A105/F6aHFS	LF2/304	F11/F6aHF	SS 316(L)	F51/F51
1	Body	A105N	A350 LF2	A182 F11	A182 F316L	A182 F51
2	Seat ring	A276 410+STL	A276 410+STL	A276 410+STL	A276 316+STL	A182 F51
3	Disc	A276 410	A276 410	A276 410	A276 316	A182 F51
4	Disc nut	A194 8	A194 8	A194 8	A194 8M	A194 8M
5	Rocker	A351 CF8	A351 CF8	A351 CF8	A351 CF8M	A351 CF8M
6	Pin	A276 316	A276 316	A276 316	A276 316	A276 316
7	Gasket	304+Graphite	304+Graphite	304+Graphite	316+Graphite	F51+Graphite
8	Bonnet	A105N	A350 LF2	A182 F11	A182 F316L	A182 F51
9	Bonnet Bolt	A193-B7/B7M	A320-L7/L7M	A193 B16	A193 B8M	A193 B8M
10	Nameplate	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

NPS	L	φd	D	L1	H
1/2"	79.0	φ13.0	φ21.8	10.0	58.0
3/4"	92.0	φ13.0	φ27.2	13.0	58.0
1"	111.0	φ18.0	φ33.9	13.0	75.0
1 1/4"	120.0	φ24.0	φ42.7	13.0	83.0
1 1/2"	120.0	φ29.0	φ48.8	13.0	94.0
2"	140.0	φ36.5	φ61.2	16.5	107.0

NPS	L	φd	D	L1	H
1/2"	111.0	φ13.0	φ21.8	10.0	75.0
3/4"	111.0	φ13.0	φ27.2	13.0	75.0
1"	120.0	φ18.0	φ33.9	13.0	83.0
1 1/4"	120.0	φ24.0	φ42.7	13.0	94.0
1 1/2"	140.0	φ29.0	φ48.8	13.0	107.0
2"	160.0	φ36.5	φ61.2	16.5	130.0

NPS	L	φd	D1	D2	D3	D	T	t	n-b	H
1/2"	108.0	φ10.0	φ16.0	φ34.9	φ60.3	φ90.0	11.0	2.0	4-φ16	56.0
3/4"	117.0	φ12.5	φ21.0	φ42.9	φ69.9	φ100.0	12.0	2.0	4-φ16	56.0
1"	127.0	φ18.0	φ26.5	φ50.8	φ79.4	φ110.0	12.5	2.0	4-φ16	75.0
1 1/4"	140.0	φ24.0	φ35.0	φ63.5	φ88.9	φ115.0	14.0	2.0	4-φ16	83.0
1 1/2"	165.0	φ29.0	φ41.0	φ73.0	φ98.4	φ125.0	15.5	2.0	4-φ16	94.0
2"	203.0	φ36.5	φ52.5	φ92.1	φ120.7	φ150.0	17.0	2.0	4-φ19	114.0

NPS	L	φd	D1	D2	D3	D	T	t	n-b	H
1/2"	152.0	φ10.0	φ16.0	φ34.9	φ66.7	φ95.0	15.5	2.0	4-φ16	56.0
3/4"	178.0	φ13.0	φ21.0	φ42.9	φ82.6	φ115.0	17.0	2.0	4-φ19	58.0
1"	216.0	φ18.0	φ26.5	φ50.8	φ88.9	φ125.0	19.0	2.0	4-φ19	75.0
1 1/4"	229.0	φ24.0	φ35.0	φ63.5	φ98.4	φ135.0	20.5	2.0	4-φ19	85.0
1 1/2"	241.0	φ29.0	φ41.0	φ73.0	φ114.3	φ155.0	22.0	2.0	4-φ22.5	97.0
2"	267.0	φ36.5	φ52.5	φ92.1	φ127	φ165.0	23.5	2.0	8-φ19	115.0

NPS	L	φd	D1	D2	D3	D	T	t	n-b	H
1/2"	165.0	φ10.0	φ16.0	φ34.9	φ66.7	φ95.0	22.0	7.0	4-φ16	58.0
3/4"	190.0	φ13.0	φ21.0	φ42.9	φ82.6	φ115.0	24.0	7.0	4-φ19	58.0
1"	216.0	φ18.0	φ26.5	φ50.8	φ88.9	φ125.0	25.5	7.0	4-φ19	75.0
1 1/4"	229.0	φ24.0	φ35.0	φ63.5	φ98.4	φ135.0	28.5	7.0	4-φ19	85.0
1 1/2"	241.0	φ29.0	φ41.0	φ73.0	φ114.3	φ155.0	30.0	7.0	4-φ22.5	97.0
2"	292.0	φ36.5	φ52.5	φ92.1	φ127	φ165.0	33.5	7.0	8-φ19	115.0

NPS	L	φd	D1	D2	D3	D	T	t	n-b	H
1/2"	216.0	φ10.0	φ16.0	φ34.9	φ82.6	φ120.0	29.5	6.4	4-φ22.5	75.0
3/4"	229.0	φ13.0	φ21.0	φ42.9	φ88.9	φ130.0	32.5	6.4	4-φ22.5	75.0
1"	254.0	φ18.0	φ26.5	φ50.8	φ101.6	φ150.0	36.0	6.4	4-φ25.5	83.0
1 1/2"	305.0	φ29.0	φ41.0	φ73.0	φ123.8	φ180.0	39.0	6.4	4-φ29.0	135.0
2"	368.0	φ36.5	φ52.5	φ92.1	φ165.1	φ215.0	45.5	6.4	8-φ25.5	135.0
1/2"	216.0	φ10.0	φ16.0	φ34.9	φ82.6	φ120.0	29.5	6.4	4-φ22.5	75.0