

Cryogenic
Forged Steel
Valve Series

Application Standards

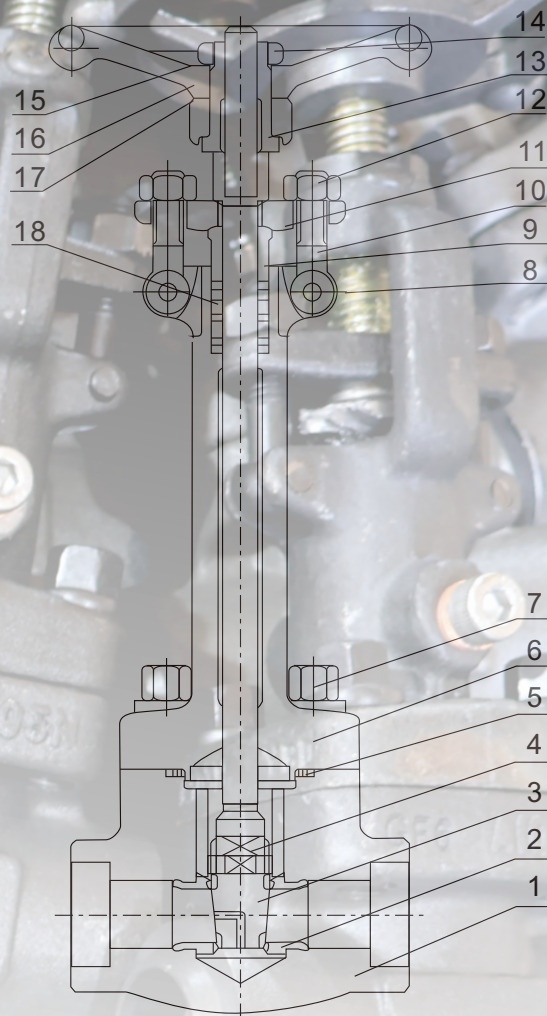
- Design and manufacture: API 602, BS5352, ANSI B16.34
- Socket welded dimension: ANSI B16.11, JB/T1751
- Screw ends dimension: ANSI B1.20.1, JB/T7306
- Butt-welded ends: ANSI B16.25,JB/T12224
- Flanged ends: ANSI B16.5, JB79
- Test and inspection: API 598, GB/T13927, JB/T9092

Main Features

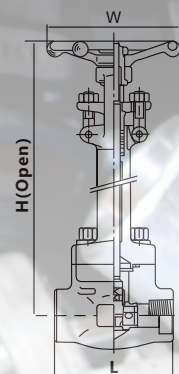
- Bolted bonnet, outside screw and yoke
- Welded bonnet, outside screw and yoke
- Materials conform to ANSI/ASTM

Temperature Pressure
Rate of Carbon Steel

- CL150-285 P.S.I @ 100°F
- CL300-740 P.S.I @ 100°F
- CL600-1480 P.S.I @ 100°F
- CL800-1975 P.S.I @ 100°F
- CL1500-3705 P.S.I @ 100°F

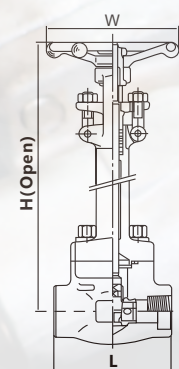


NO.	Part Name	A105/F6a	A105/F6aHFS	LF2/304	LF3/304	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	-	-	LF2	LF3	F304(L)	F316(L)	F51
2	Seat	-	-	304	304	304(L)	316(L)	F51
3	Wedge	-	-	F304	F304	F304(L)	F316(L)	F51
4	Stem	-	-	304	F304	304(L)	316(L)	F51
5	Gasket	-	-	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
6	Bonnet	-	-	LF2	LF3	F304(L)	F316(L)	F51
7	Bolt	-	-	L7	L7	B8	B8	B8
8	Pin	-	-	410	410	304	304	304
9	Gland	-	-	304	304	304	316	F51
10	Gland eyebolt	-	-	L7	L7	B8(M)	B8(M)	B8M
11	Gland flange	-	-	LF2	LF3	F304	F304	F304
12	Hex nut	-	-	2H	2H	8(M)	8(M)	8M
13	Stem nut	-	-	410	410	410	410	410
14	Locking nut	-	-	35	35	35	35	35
15	Nameplate	-	-	AL	AL	AL	AL	AL
16	Handwheel	-	-	A197	A197	A197	A197	A197
17	Lubricating gasket	-	-	410	410	410	410	410
18	Packing	-	-	Graphite	Graphite	Graphite	Graphite	Graphite



CL800

(NPS) Specification	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face(mm)	L	79	79	92	111	120	120	140	178	180
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200	220
Height (mm)	H	-196	291	291	293	340	375	400	450	560
		-46	255	255	258	290	325	265	395	440
Port Dimension(mm)	d	7.5	10.5	13.5	18	24	29	36.5	45	51
Weight(kg)		3.5	3.5	4.3	6.7	10.9	12	14.8	28	36

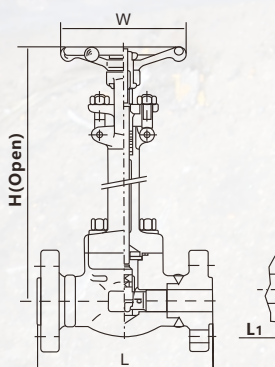
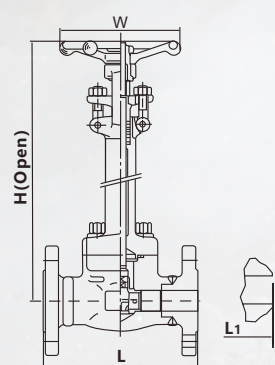


CL1500

(NPS) Specification	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
Face to face(mm)	L	79	92	111	120	120	140	178	180	
Handwheel diameter(mm)	W	100	125	125	160	160	180	200	220	
Height (mm)	H	-196	321	321	322	359	399	446	480	550
		-46	285	285	287	309	343	396	420	480
Port Dimension(mm)	d	7.5	10.5	13.5	18	24	29	36.5	45	
Weight(kg)		3.5	6.7	6.7	11	12.3	15.8	28	45	

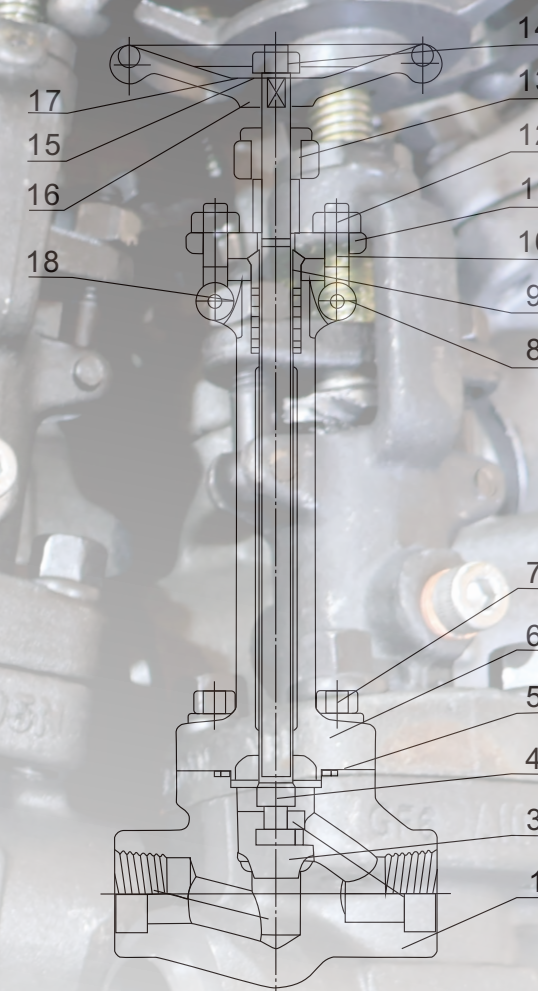
CL150-300-600

(NPS) Specification			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	CL150	L(RF)	-	-	108	117	127	140	165	178
	CL300	L(RF)	-	-	140	152	165	178	190	216
	CL600	L1(BW)	-	-	165	190	216	229	241	292
Handwheel diameter(mm)	W		-	-	100	100	125	160	160	180
Height (mm)	H	-196	-	-	321	322	359	399	446	480
		-46	-	-	285	287	309	343	396	420
Port Dimension(mm)	d		-	-	10.5	13.5	18	24	29	36.5
Weight(kg)	CL 150	RF	-	-	5.0	5.5	8.8	13.5	15	20.3
		BW	-	-						
	CL 300	RF	-	-	5.8	7.3	9.7	12.5	19.5	22.3
		BW	-	-						
	CL 600	RF	-	-	6.0	8	11.2	13.5	21.5	24.8
		BW	-	-						



CL1500

(NPS) Specification		R.P	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L		216	229	254	279	305	368
Handwheel diameter(mm)	W		125	125	160	160	180	200
Height (mm)	H	-196	321	322	359	399	446	480
		-46	285	287	309	343	396	420
Port Dimension(mm)	d		10.5	13.5	18	24	29	36.5
Weight(kg)			14	23	25.3	35.7	47	72



NO.	Part Name	A105/F6a	A105/F6aHFS	LF2/304	LF3/304	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	-	-	LF2	LF3	F304(L)	F316(L)	F51
2	Seat	-	-	304	304	304(L)	316(L)	F51
3	Wedge	-	-	F304	F304	F304(L)	F316(L)	F51
4	Stem	-	-	304	F304	304(L)	316(L)	F51
5	Gasket	-	-	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
6	Bonnet	-	-	LF2	LF3	F304(L)	F316(L)	F51
7	Bolt	-	-	L7	L7	B8	B8	B8
8	Pin	-	-	410	410	304	304	304
9	Gland	-	-	304	304	304	316	F51
10	Gland eyebolt	-	-	L7	L7	B8(M)	B8(M)	B8M
11	Gland flange	-	-	LF2	LF3	F304	F304	F304
12	Hex nut	-	-	2H	2H	8(M)	8(M)	8M
13	Stem nut	-	-	410	410	410	410	410
14	Locking nut	-	-	35	35	35	35	35
15	Nameplate	-	-	AL	AL	AL	AL	AL
16	Handwheel	-	-	A197	A197	A197	A197	A197
17	Lubricating gasket	-	-	410	410	410	410	410
18	Packing	-	-	Graphite	Graphite	Graphite	Graphite	Graphite

Forged Steel Bellows Sealed Valve Series

Application Standards

Design and manufacture: API 602, MSS-SP-117

Socket welded dimension: ANSI B16.11, JB/T1751

Screw ends dimension: ANSI B1.20.1, JB/T7306

Butt-welded ends: ANSI B16.25, JB/T12224

Flanged ends: ANSI B16.5, JB79

Test and inspection: API 598, GB/T13927, JB/T9092

Main Features

Bolted bonnet, outside screw and yoke

Welded bonnet, outside screw and yoke

Materials conform to ANSI/ASTM

Temperature Pressure Rate of Carbon Steel

CL150-285 P.S.I @ 100°F

CL300-740 P.S.I @ 100°F

CL600-1480 P.S.I @ 100°F

CL800-1975 P.S.I @ 100°F

CL1500-3705 P.S.I @ 100°F

CL800

(NPS) Specification	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	79	79	92	111	120	152	172	220
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200
Height (mm)	H	-196 -101	390	390	415	430	460	490	570
		-46	350	350	400	410	425	450	540
Port Dimension(mm)	d	7.0	9.0	13	17.5	23	30	35	46
Weight(kg)		7.2	7.2	7.2	9.5	10.8	13.5	19.8	29

CL1500

(NPS) Specification	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	92	92	111	120	152	172	200	-
Handwheel diameter(mm)	W	100	125	125	160	160	180	200	-
Height (mm)	H	-196 -101	370	370	370	410	410	474	546
		-46	350	350	400	410	425	450	480
Port Dimension(mm)	d	9	12	15	20	28	32	40	-
Weight(kg)		7.2	9.5	9.5	10.8	13.5	19.8	29	-

CL150-300-600

(NPS) Specification		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L(RF)	CL150	-	-	108	118	127	140	165	203
	L1(BW)	CL300	-	-	152	178	203	216	229	267
		CL600	-	-	165	190	216	229	241	292
Handwheel diameter(mm)	W	-	-	100	100	125	160	160	180	
Height (mm)	H	-196 -101	-	-	390	415	430	-	490	505
		-46	-	-	350	400	410	-	450	480
Port Dimension(mm)	d	-	-	9.0	13	17.5	-	30	35	
Weight(kg)		CL150	-	-	5	5.8	8.6	13.5	13.8	24.3
		CL300	-	-	5.8	6.8	10.3	16.8	19.3	25.8
		CL600	-	-	6.3	7.3	10.6	17	20.3	26.8

CL1500

(NPS) Specification	F.P	1/4	3/8	1/2	3/4	1	1 ¹ / ₄	1 ¹ / ₂	2	
Face to face(mm)	L(RF)	-	-	216	229	254	279	305	368	
Handwheel diameter(mm)	W	-	-	125	125	160	160	180	200	
Height (mm)	H	-196 -101	-	-	370	370	410	410	474	546
		-46	-	-	350	400	410	425	450	480
Weight(kg)	d	-	-	12	15	20	28	32	40	