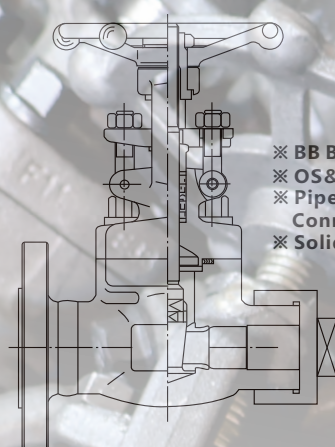


Vacuum Gate Valve

- ※ Welded bonnet
- ※ OS&Y
- ※ Double Packing
- ※ Distance ring
- ※ Injector sealing gum valves
- ※ Solid wedge



Empty Drain Valve

- ※ BB Bonnet
- ※ OS&Y
- ※ Pipe Cap Connection
- ※ Solid wedge

Forged Steel Globe Valve Series

Application Standards

Design and manufacture: MSS-SP118

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

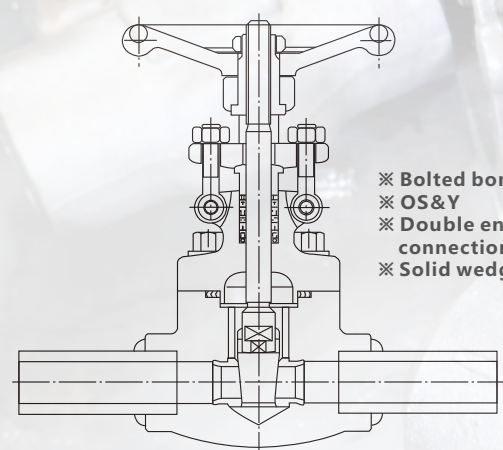
CL150-285 P.S.I @ 100°F

CL300-740 P.S.I @ 100°F

CL600-1480 P.S.I @ 100°F

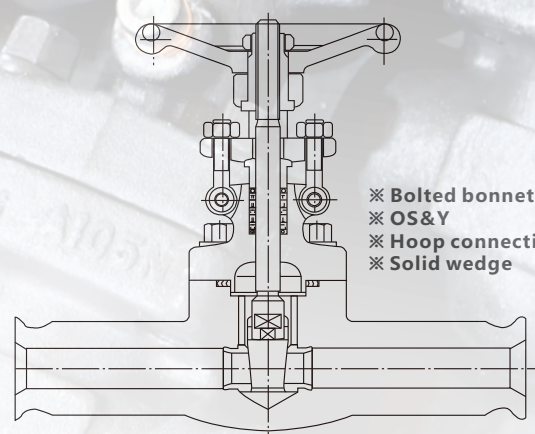
CL800-1975 P.S.I @ 100°F

CL1500-3705 P.S.I @ 100°F



Coupling Pipe Valves

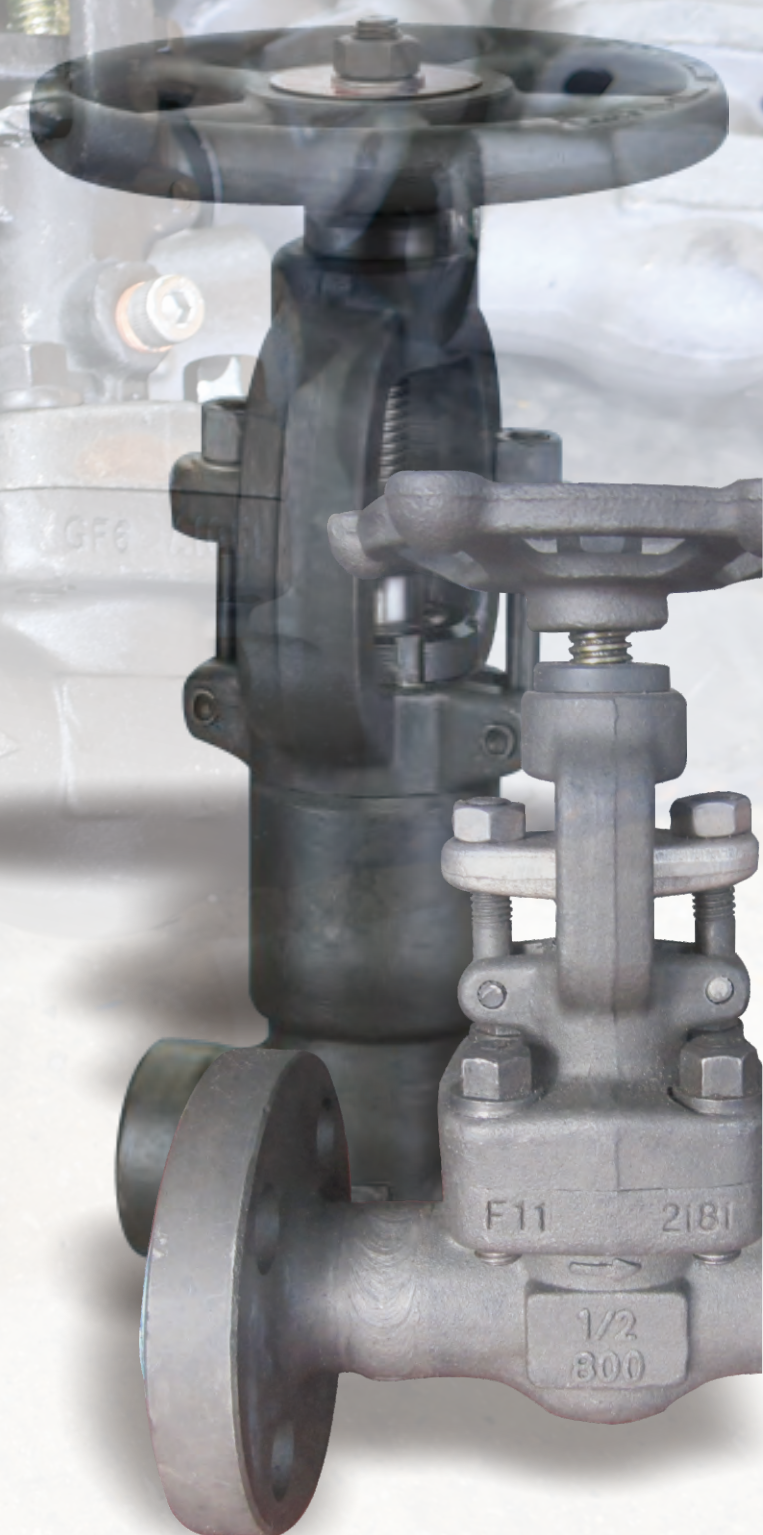
- ※ Bolted bonnet
- ※ OS&Y
- ※ Double end pipe connection
- ※ Solid wedge

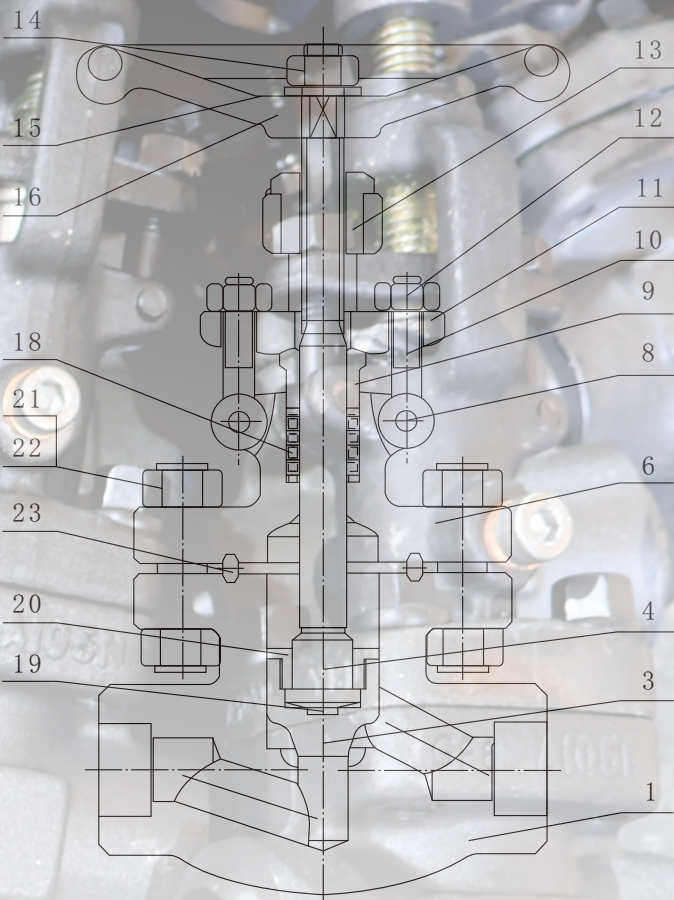
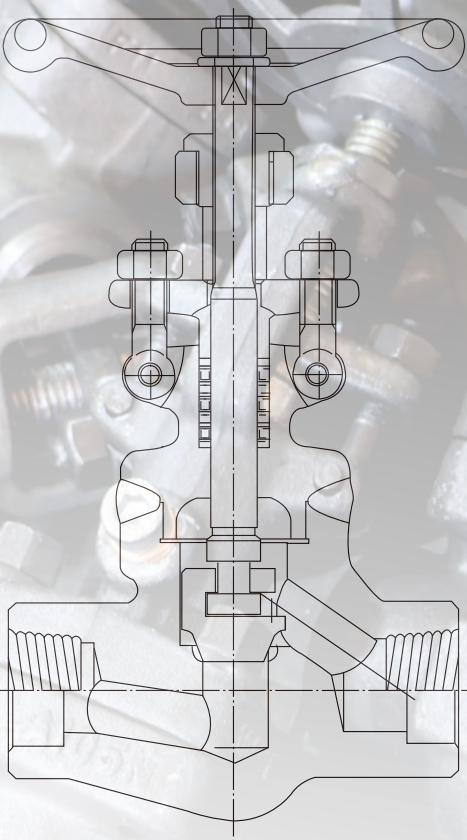
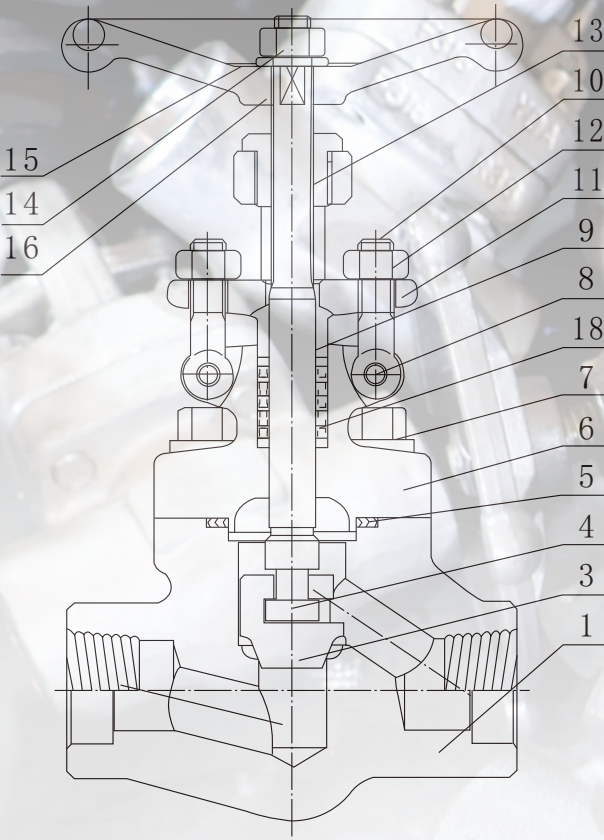


Hoop Gate Valve

- ※ Bolted bonnet
- ※ OS&Y
- ※ Hoop connection
- ※ Solid wedge

CLASS 800 API602-BS5352 Reduced port & full port	Temperature Pressure Rate	Materials		
		Body/Bonnet	Trim	Bolt
	1975 psi @ 100°F	Carbon Steel	13Cr	B7





Materials List

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+HF	LF2	F11+HF	F304(L)	F316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	410	410	410	410	410	410	410
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite

Materials List

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+HF	LF2	F11+HF	F304(L)	F316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	410	410	410	410	410	410	410
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
19	Stem pad	420	420	420	420	316SH	316SH	316SH
20	Disc nut	410	410	410	410	410	410	410
21	Screwed stud	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
22	Nut	2H	2H	8	8	8(M)	8(M)	8(M)
23	Metal ring	304	304	304	304	316(L)	316(L)	F51

Application Standards

Design and manufacture: 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

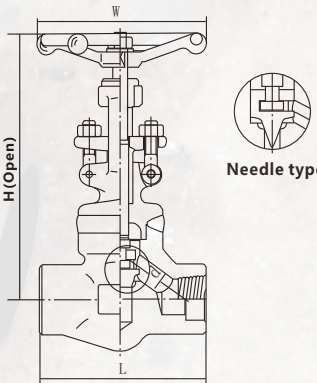
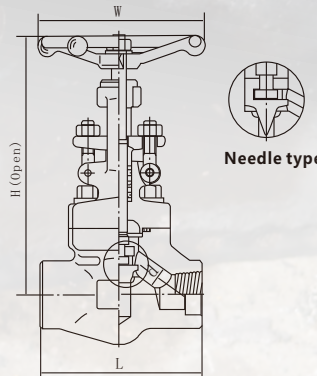
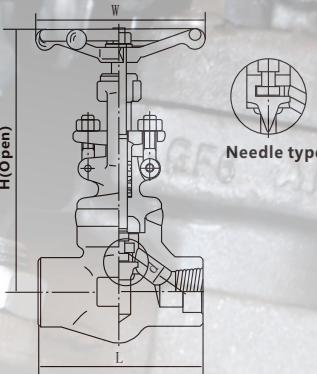
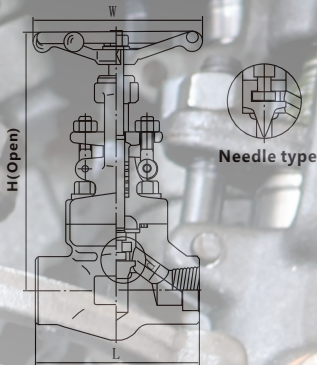
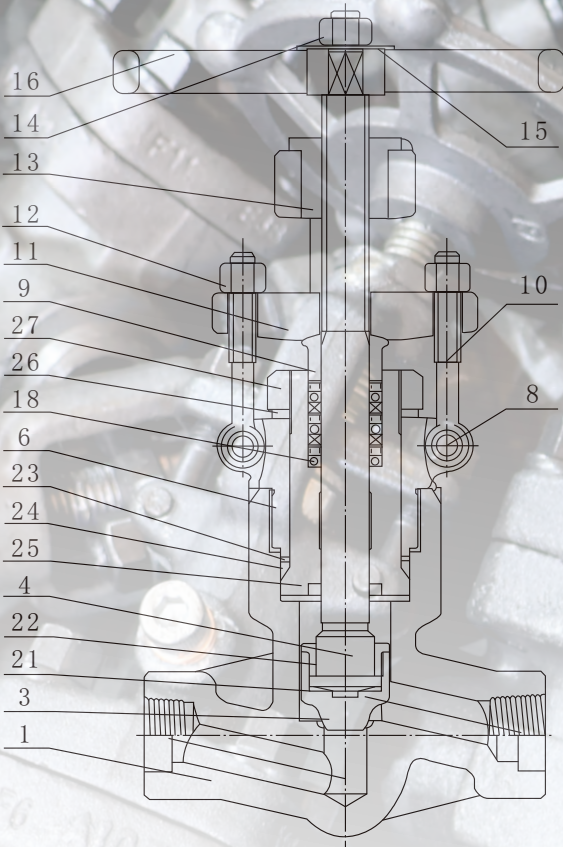
Threaded & pressure sealed bonnet
Y pattern or angle pattern
Materials conform to ANSI/ASTM

Temperature Pressure
Rate of Carbon Steel

CL1500-3705 P.S.I @ 100°F
CL2500-6170 P.S.I @ 100°F

Materials List

NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F91/410HF
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F91+HF
3	Disc	410	410	304	410	304(L)	316(L)	410+HF
4	Stem	410	410	304	410	304(L)	316(L)	410
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F91
8	Pin	410	410	410	410	304	304	410
9	Gland	410	410	304	410	304	316	410
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8
11	Gland flange	A105	A105	LF2	F11	F304	F304	F91
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8
13	Stem nut	410	410	410	410	410	410	410
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
21	Stem pad	420	420	420	420	316SH	316SH	420
22	Disc nut	410	410	410	410	304(L)	316(L)	410
23	Seal gasket	420	420	304	304	304(L)	316(L)	316(L)
24	P.S. ring	304	304	304	304	304	316	304
25	P.S. seat	420	420	304	304	304(L)	316(L)	F91
26	Nut pad	410	410	410	410	410	410	410
27	Draw-in stud	Cast steel	Cast steel	Cast steel	Cast steel	Stainless steel	Stainless steel	Cast steel



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	152	172	220	-
Handwheel Width (mm)	W	100	100	100	125	160	160	180	200	-
Height (mm)	H	164	164	164	203	224	260	300	355	-
Port Dimension(mm)	d	7	9	13	17.5	23	30	35	46	-
Weight(kg)		1.9	2.28	2.37	4.3	5.75	7.8	12.5	17.5	-

CL800

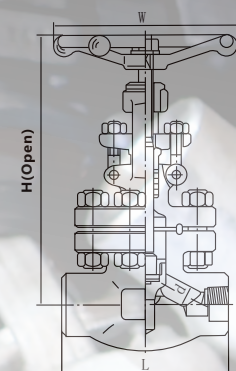
(NPS) Specification	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face(mm)	L	79	79	92	111	120	152	172	220	-
Handwheel Width (mm)	W	100	100	100	125	160	160	180	200	-
Height (mm)	H	164	164	164	203	224	260	300	355	-
Port Dimension(mm)	d	7	9	13	17.5	23	30	35	46	-
Weight(kg)		1.7	1.7	1.9	3.3	5.2	6.8	10.6	13.8	-

CL900-1500

(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	92	92	111	120	152	172	200	220	-
Handwheel Width (mm)	W	100	100	125	160	160	180	200	240	-
Height (mm)	H	171	271	207	240	258	330	355	370	-
Port Dimension(mm)	d	7	12	15	20	28	32	40	45	-
Weight(kg)		2.3	3.6	3.7	6.8	7.6	11.6	15	21.9	-

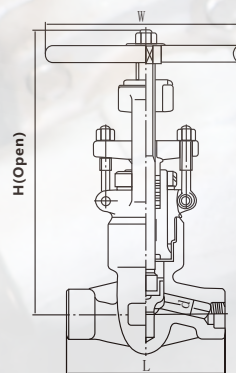
CL900-1500

(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	92	92	111	120	152	172	200	220	-
Handwheel Width (mm)	W	100	100	125	160	160	180	200	240	-
Height (mm)	H	171	171	207	240	258	330	355	370	-
Port Dimension(mm)	d	7	12	15	20	28	32	40	45	-
Weight(kg)		2.2	3.3	3.4	5.6	6.0	10.3	14.2	18.0	-



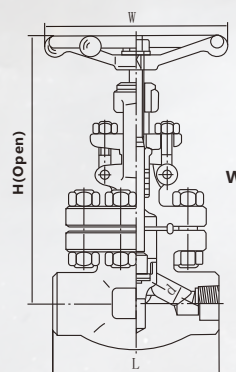
CL900-1500

Specification (NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face (mm)	L	111	120	152	172	210	220	235
Handwheel diameter (mm)	W	110	110	130	180	210	210	250
Height (mm)	H	227	227	300	307	400	400	448
Flow port dimension(mm)	d	9	12	15	20		32	40
Weight (kg)		5	5	10	11.5		22	37



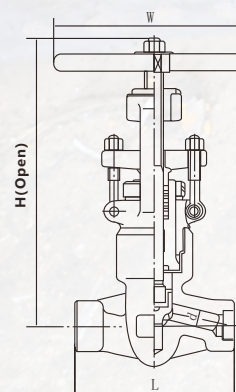
CL900-1500

Specification (NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face (mm)	L	140	140	140	178	178	216	-
Handwheel diameter (mm)	W	200	200	200	280	280	300	-
Height (mm)	H	320	320	320	440	440	490	-
Flow port dimension(mm)	d	12	15	20	28	32	40	-
Weight (kg)		10.8	10.5	11.5	19.6	21.1	55.4	-



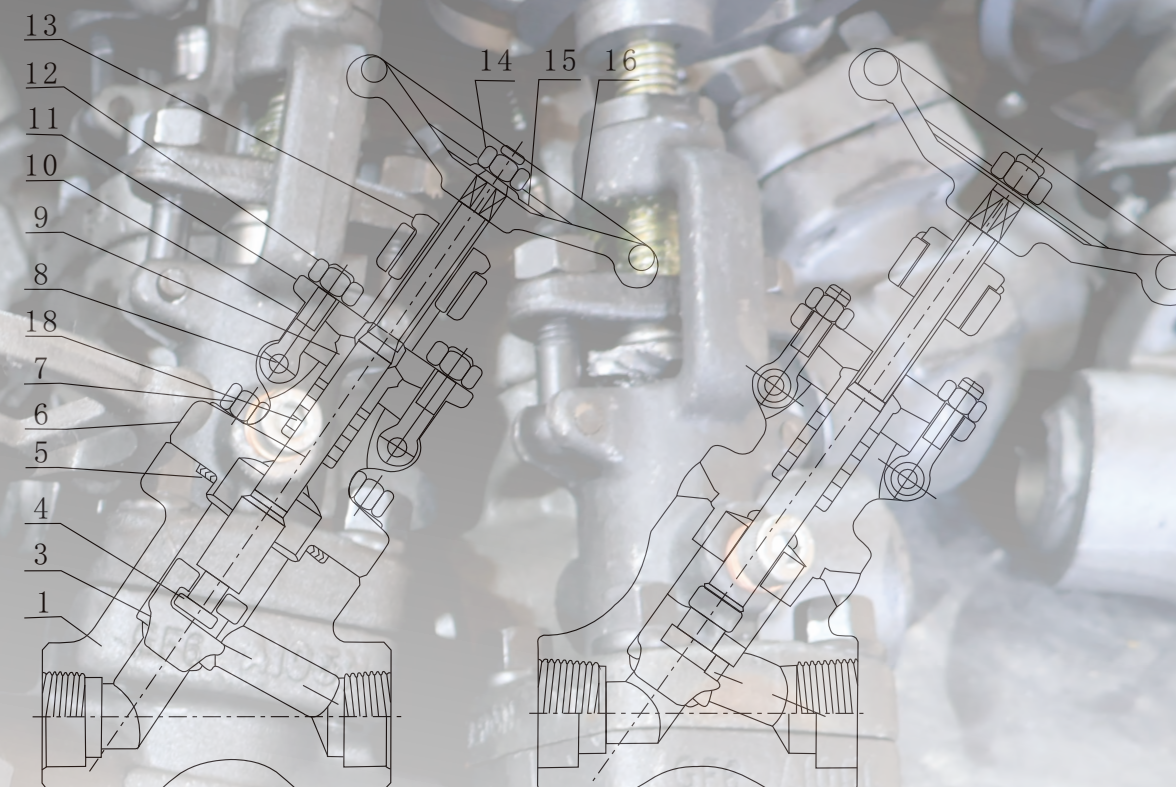
CL2500

Specification (NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face (mm)	L	120	120	152	172	210	220	-
Handwheel diameter (mm)	W	130	130	130	-	300	300	-
Height (mm)	H	293	300	390	-	435	435	-
Flow port dimension(mm)	d	11	14	19	-	28	35	-
Weight (kg)		10	10.3	22.4	-	38	38	-



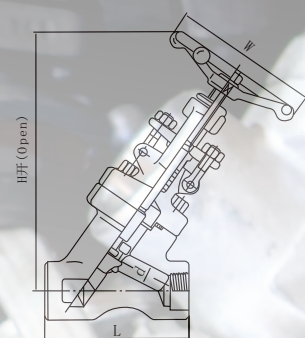
CL2500

Specification (NPS)	F.P	1/ 2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face (mm)	L	186	186	186	232	232	279	-
Handwheel diameter (mm)	W	200	200	200	280	280	300	-
Height (mm)	H	375	378	380	490	490	540	-
Flow port dimension(mm)	d	11	14	19	25	28	35	-
Weight (kg)		10.8	11.6	12.3	26.0	28.4	60	-



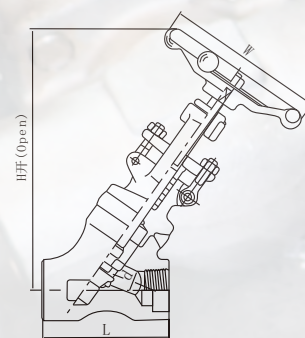
Materials List

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+HF	LF2	F11+HF	F304(L)	F316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	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	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	410	410	410	410	410	410	410
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite



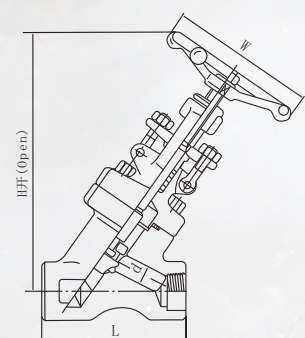
CL800

(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	98	98	111	111	140	140	155	170	-
Handwheel Width(mm)	W	100	100	100	125	160	160	180	200	-
Height (mm)	H	180	180	180	188	280	280	295	350	-
Port Dimension(mm)	d	7	9	13	17.5	23	30	35	46	-
Weight(kg)		2.6	2.6	3.8	4.6	9.3	9.3	14	19.6	-



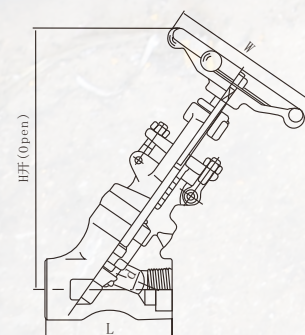
CL800

(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	98	111	120	140	140	170	170	-
Handwheel Width(mm)	W	100	100	100	125	160	160	180	200	-
Height (mm)	H	198	198	198	207	280	280	295	350	-
Port Dimension(mm)	d	7	9	13	17.5	23	30	35	46	-
Weight(kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	16	-



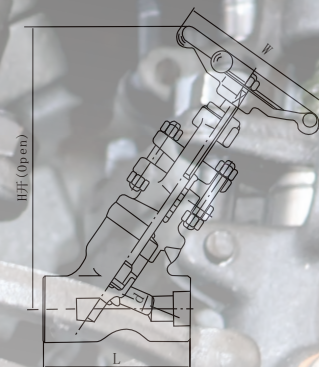
CL900-1500

(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face(mm)	L	140	140	140	140	178	178	216	-
Handwheel Width(mm)	W	100	125	125	160	160	180	200	-
Height (mm)	H	175	175	215	215	254	305	305	-
Port Dimension(mm)	d	9	12	15	20	28	32	40	-
Weight(kg)		2.6	4.6	4.6	9.3	9.3	14	19.6	-



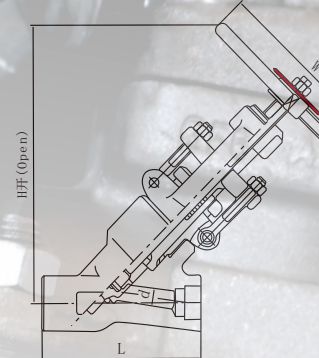
CL900-1500

(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face(mm)	L	140	140	186	140	178	178	216	-
Handwheel Width(mm)	W	100	125	200	160	160	180	200	-
Height (mm)	H	175	207	380	280	280	295	350	-
Port Dimension(mm)	d	9	12	19	20	28	32	40	-
Weight(kg)		1.8	3.5	12.3	8.0	8.0	12	16	-



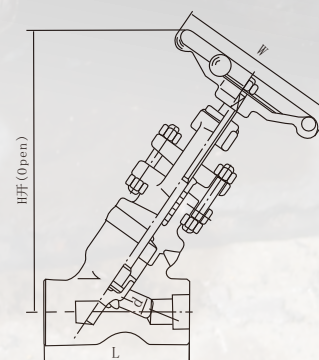
CL2500

(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	186	186	186	186	232	232	279
Handwheel Width(mm)	W	200	200	200	200	280	280	300
Height (mm)	H	329	329	329	329	350	350	383
Port Dimension(mm)	d	9	11	14	19	25	28	35
Weight(kg)		10.8	11.6	12.3	12.3	28.0	26.4	43.8



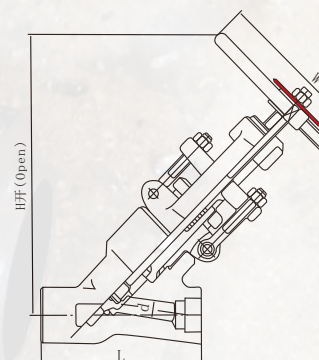
CL2500

(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	186	186	186	186	232	232	279
Handwheel Width(mm)	W	200	200	200	200	280	280	300
Height (mm)	H	333	333	333	333	406	406	524
Port Dimension(mm)	d	9	11	14	19	25	28	35
Weight(kg)		10.8	11.6	12.3	12.3	28.0	26.4	43.8



CL4500

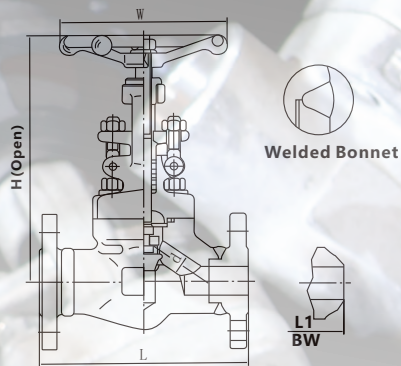
(NPS) Specification	F.P	3/8	1/2	3/4	1		1 1/2	2
Face to face(mm)	L	155	155	155	155	-	225	225
Handwheel Width(mm)	W	220	220	220	220	-	300	320
Height (mm)	H	350	350	350	380	-	453	453
Port Dimension(mm)	d	9	11	11	15	-	26	28
Weight(kg)		9.4	9.6	9.6	10.5	-	34	36



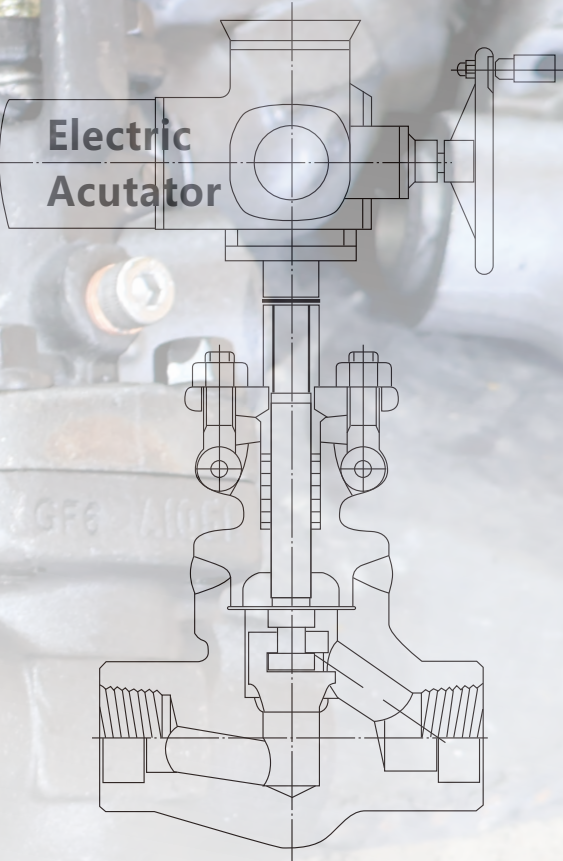
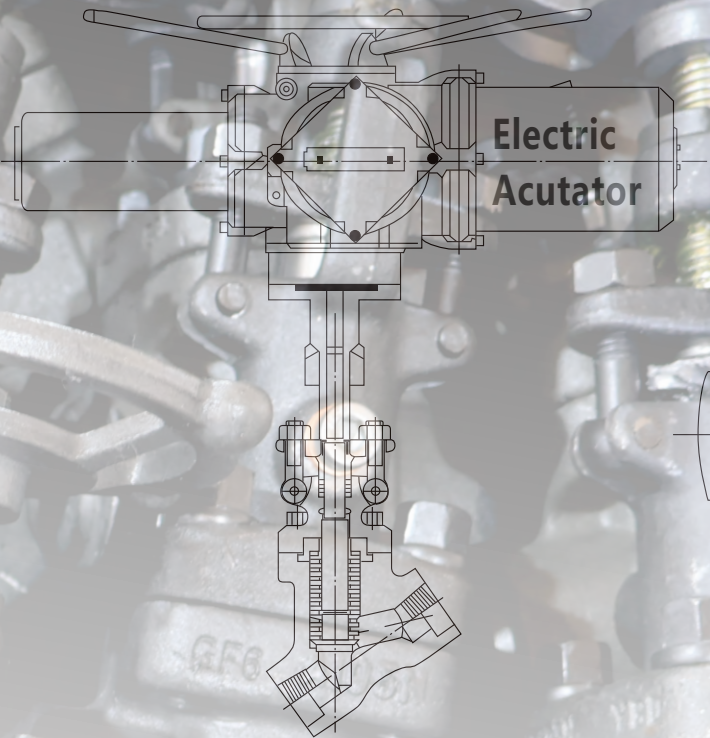
CL4500

(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	200	200	200	200	250	250	330
Handwheel Width(mm)	W	280	280	280	280	300	300	320
Height (mm)	H	400	400	400	400	460	460	540
Port Dimension(mm)	d	9	11	11	15	20	26	28
Weight(kg)		30	30	30	30	30	36	58

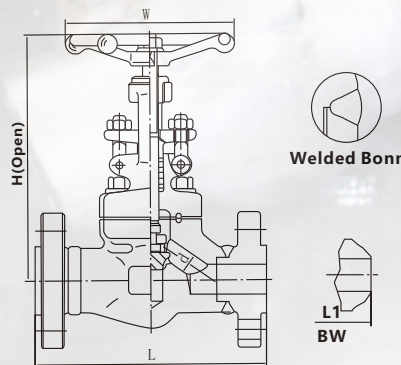
CL150-300-600



(NPS)Specification		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face (mm)	CL150	L(RF)	-	-	108	117	127	140	165	203
	CL300	L1(BW)	-	-	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)	CL150,CL300	H	-	-	180	184	217	224	260	300
	CL600		-	-	164	164	203	224	260	300
Port Dimension(mm)		d	-	-	9	13	17.5	23	30	35
Weight(kg)	CL150	RF	-	-	3.45	4.00	6.19	9.6	10.5	17
		BW	-	-	2.3	3.6	7.8	8.2	12.0	15.0
	CL300	RF	-	-	3.8	5.1	7.2	12	13.5	19.7
		BW	-	-	2.8	4.0	8.5	9.2	12.6	16.8
	CL600	RF	-	-	5.6	7.8	12.5	17	23.5	38.8
		BW	-	-	3.4	4.7	9.2	10.5	13.3	18.9

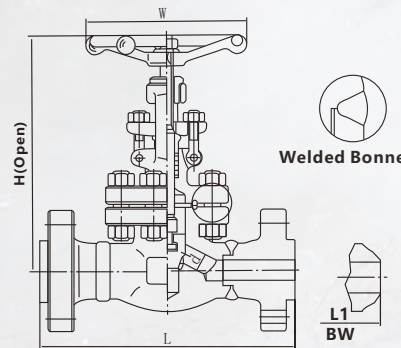


CL900-1500



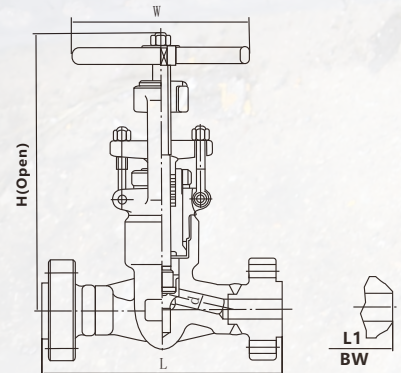
(NPS)Specification		F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face (mm)	L(RF), L1(BW)		-	-	216	229	254	279	305	368
	L(RTJ)		-	-	216	229	254	279	305	371
Handwheel diameter(mm)	W		-	-	125	125	160	160	180	200
Height(mm)	H		-	-	207	207	230	160	300	355
Port Dimension(mm)	d		-	-	12	15	20	28	32	40
Weight(kg)			-	-	11	13.2	17.4	19	24.5	31

CL2500



(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), L1(BW)		-	-	264	273	308	349	384	451
	L(RTJ)		-	-	264	273	308	349	387	454
Handwheel diameter(mm)	W		-	-	125	160	200	280	250	240
Height(mm)	H		-	-	207	240	258	440	355	300
Port Dimension(mm)	d		-	-	11	14	19	25	28	35
Weight(kg)			-	-	19.5	21.5	42	48.1	65	95

CL2500



(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), L1(BW)		-	-	264	273	308	349	384	451
	L(RTJ)		-	-	264	273	308	349	387	454
Handwheel diameter(mm)	W		-	-	200	200	280	280	280	300
Height(mm)	H		-	-	320	320	320	440	440	490
Port Dimension(mm)	d		-	-	11	14	19	25	28	35
Weight(kg)			-	-	21.5	24.7	30.4	48.1	58.1	130

Please contact sales department for integral flanged forged steel globe valves.

