



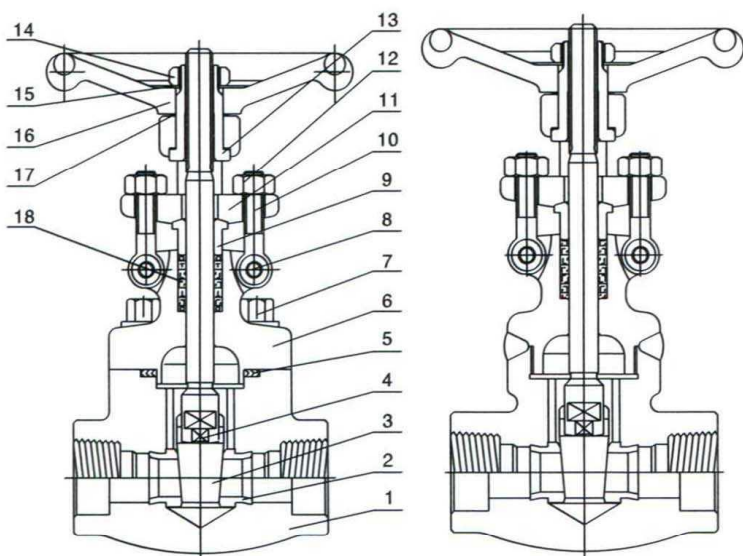
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## FORGED GATE VALVE





## Application standards

- 1、Design and manufacture conform to API 602、BS5352、ANSI B16.34;
- 2、Connection ends conform to :
  - 1)Socket welded dimension conform to ANSI B16.11;JB/T1751
  - 2)Screw ends dimension conform to ANSI B1.20.1;JB/T7306
  - 3)Butt-weld conform to ANSI B16.25;JB/T12224
  - 4)Flanged ends conform to ANSI B16.5;JB79
- 3、Test and inspection conform to :  
API 598 ; GB/T13927 ; JB/T9092
- 4、Structure features:  
Bolted bonnet, outside screw and yoke  
Welded bonnet, outside screw and yoke
- 5、Materials conform to ANIS/ASTM.
- 6、Main materials:  
A105;LF2;F5;F11;F22;304(L);316(L);F347;F321;  
F51;Monel;20 Alloy.

### Carbon steel temperature–pressure rate

CL150-285 P.S.I @ 100° F

CL300-740 P.S.I @ 100° F

CL600-1480 P.S.I @ 100° F

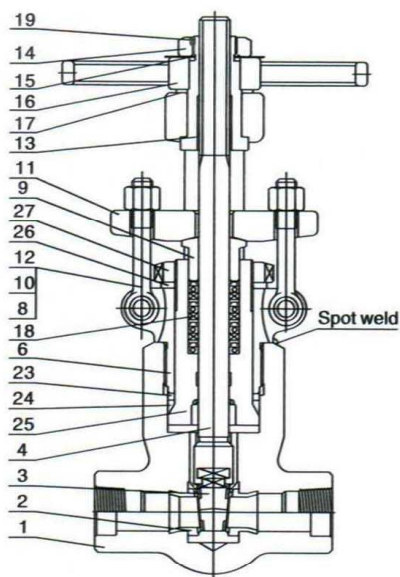
CL800-1975 P.S.I @ 100° F

CL1500-3705 P.S.I @ 100° F

## Main part materials list

[illegible]





## Application standards

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API 602、BS5352、ANSI B16.34
- 2、Connection ends conform to:
  - 1)Socket welded dimension conform to ANSI B16.11;JB/T1751
  - 2)Screw ends dimension conform to ANSI B1.20.1;JB/T7306
  - 3)Butt-welded conform to ANSI B16.25;JB/T12224
  - 4)Flanged ends conform to ANSI B16.5;JB79
- 3、Test and inspection conform to :  
API 598 ; GB/T13927 ; JB/T9092
- 4、Structure features:  
A threaded and pressure seal bonnet
- 5、Materials conform to ANIS/ASTM.
- 6、Main materials.A105; LF2; F5; F11; F22; 304(L); 316(L);  
F347; F321; F91 Monel; 20Alloy.

## Carbon steel temperature–pressure rate

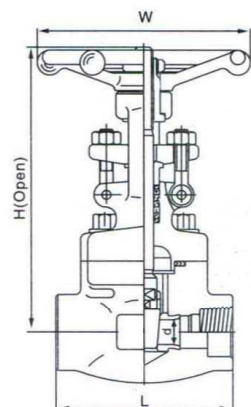
CL1500–3705 P.S.I @ 100° F

CL2500–6170 P.S.I @ 100° F

## Main part materials list

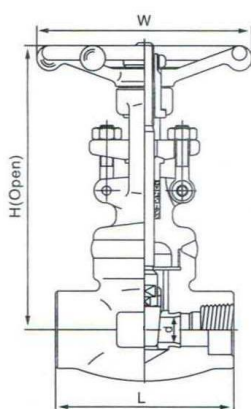
NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F91/410 HF
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F91
2	Seat	410	410HF	304	410HF	304(L)	316(L)	410HF
3	Wedge	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F6aHF
4	Stem	410	410	304	410	304(L)	316(L)	410
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F91
7	Pin	410	410	410	410	304	304	410
8	Gland	410	410	304	410	304	316	410
9	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8
10	Gland flange	A105	A105	LF2	F11	F304	F304	F91
11	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8
12	Stem nut	410	410	410	410	410	410	410
13	Locking nut	35	35	35	35	35	35	35
14	Nameplate	AL	AL	AL	AL	AL	AL	AL
15	Handwheel	A197	A197	A197	A197	A197	A197	A190
16	Lubricating gasket	410	410	410	410	410	410	410
17	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
18	Stop nut	35	35	35	35	35	35	35
19	Seal gasket	420	420	304	304	304(L)	316(L)	420
23	P.S.ring	304	304	304	304	304	316	316
24	P.S.seat	420	420	304	304	304(L)	316(L)	F91
25	Nut pad	410	410	410	410	410	410	410
26	Packing nut	Cast steel	Cast steel	Cast steel	Cast steel	Stainless steel	Stainless steel	Cast steel





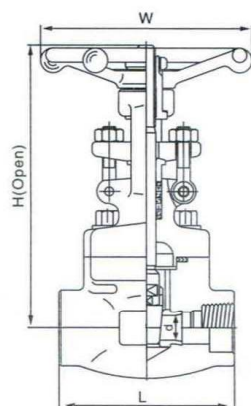
## CL800 Bolted bonnet, full port reducing port outside screw and yoke(OS & Y) Threaded, butt-welded or socket welded ends; design to API 602

Specification (NPS)	R.P	–	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face	L	79	79	92	111	120	120	140	178	180
Handwheel diameter	W	100	100	100	125	160	160	180	200	220
Height	H	161	161	163	196	223	251	290	333	370
Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	51
Weight(Kg)		2.3	2.22	2.39	4.24	5.7	7.05	10.9	16.8	24



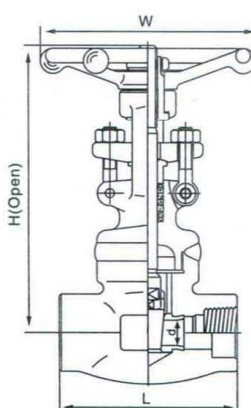
## CL800 Welded bonnet, full port reducing port outside screw and yoke (OS & Y) Threaded, butt-welded or socket welded ends; design to API 602

Specification (NPS)	R.P	–	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face	L	79	79	92	111	120	120	140	178	180
Handwheel diameter	W	100	100	100	125	160	160	180	200	220
Height	H	161	161	163	196	223	251	290	333	370
Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	51
Weight(Kg)		1.9	1.9	2.1	3.2	5.2	6.9	10.4	15.8	22



## CL900-CL1500 Bolted bonnet, full port reducing port outside screw and yoke(OS&Y) Threaded, butt-welded or socket welded ends; design to API 602

Specification (NPS)	R.P	–	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face	L	92	111	111	120	120	140	178	180	–
Handwheel diameter	W	100	125	125	160	160	180	200	220	–
Height	H	191	191	192	219	243	296	316	370	–
Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	–
Weight(Kg)		2.4	4.4	4.3	6	7.2	11.4	16	23	–



## CL900-CL1500 Welded bonnet, full port reducing port outside screw and yoke (OS&Y) Threaded, butt-welded or socket welded ends; design to API 602

Specification (NPS)	R.P	–	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face	L	92	111	111	120	120	140	178	180	–
Handwheel diameter	W	100	125	125	160	160	160	200	220	–
Height	H	171	207	207	240	258	330	355	370	–
Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	–
Weight(Kg)		2.3	4	4	4.8	7.1	11	16	22.8	–



## CL2500 Welded bonnet, full port outside screw and yoke (OS & Y) Socket weld edends, design conform to ASME B16.34

Specification(NPS)		1/4	3/8	1/2	3/4	1	1¼	2	
Face to face	L		111	120	120	120	140		
Handwheel diameter	W		125	160	160	180	220		
Height	H		215	218	220	238	281		
Flow port dimension	d		14	14	14	19	25		
Weight(Kg)			7	8.7	8.5	11.7	17		

## CL1500-CL2500 Bolted bonnet, full port outside screw and yoke (OS & Y) Socket welded ends, design conform to ASME B16.34

Specification(NPS)	F. P		1/2	3/4	1	1¼	1½	2	2½
Face to face	L	CL1500	110	150	150		210	235	
		CL2500	150	150	210		235	235	
Handwheel diameter	W	CL1500	110	130	130		180	250	
		CL2500	130	130	250		300	300	
Height	H	CL1500	277	300	390		400	435	
		CL2500	293	300	390		435	435	
Flow port dimension	d	CL1500	14	17	22		35	37	
		CL2500	14	14	14		25	30	
Weight(Kg)		CL1500	5.1	11	12.1		22	37	
		CL2500	11	11.3	22.4		38	38	

## CL1500-CL2500 Pressure seal bonnet, full port outside screw and yoke(OS & Y) Socket welded ends, design conform to ASME B16.34

Specification(NPS)	F. P		3/8	1/2	3/4	1	1¼	1½	2
Face to face	L	CL900~1500	140	140	140	140	178	178	216
		CL2500	186	186	186	186	232	232	279
Handwheel diameter	W	CL900~1500	200	200	200	200	280	280	300
		CL2500	200	200	200	200	280	280	300
Height	H	CL900~1500	318	318	318	322	467	468	540
		CL2500	325	325	325	327	467	468	540
Flow port dimension	d	CL900~1500	14	14	14	19	25	30	36.5
		CL2500	14	14	14	19	25	30	36.5
Weight(Kg)		CL900~1500	11.5	11.5	10.8	10.5	19.6	21.0	55.4
		CL2500	12.3	12.3	11.6	10.8	26.0	28.4	60.0



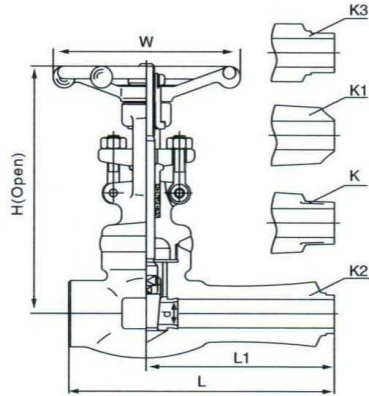


- 1、Design and manufacture conform to  
API 602、BS5352、ANSI、S B16.34;
- 2、Connection ends conform to:
  - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
  - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
  - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
  - 4)Flanged ends conform to ANSI B16.5;JB79
- 3、Test and inspection conform to:  
API 598; GB/T13927; JB/T9092
- 4、Structure features:  
Bolted bonnet, outside screw and yoke  
Welded bonnet, outside screw and yoke
- 5、Materials conform to ANSI/ASTM.
- 6、Main materials:  
A105;LF2;F5;F11;F22;304(L);316(L);F347;  
F321;F51;Monel;20 Alloy.

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

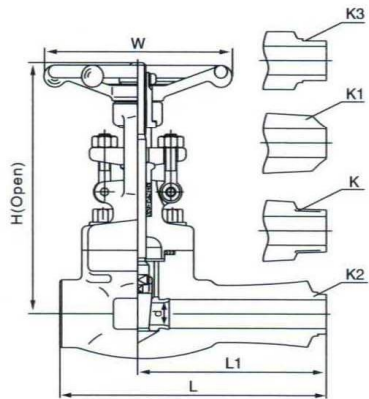
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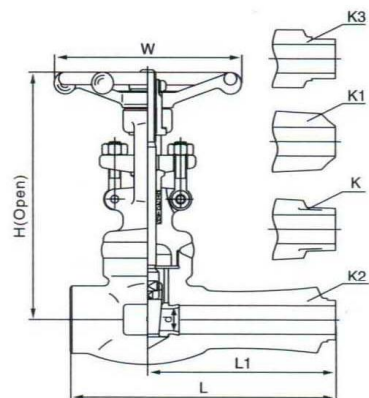
## CL800 Welded bonnet, reducing port outside screw and yoke (OS & Y) Threaded, butt-welded or socket welded ends; design to API 602, API 606

Specification(NPS)	L1	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	192	215	239	239	258	262
		153	153	182	182	216	216
Extended length	L1	152	170	184	184	193	197
		108	108	127	127	152	152
Handwheel diameter	W	100	100	125	160	160	180
Height	H	161	163	196	223	251	290
Flow port dimension	d	10.5	13.5	18	24	29	36.5
Weight(Kg)	K,K1,K3	2.5	2.7	4.5	6.3	8.5	11.6
		2.2	2.4	3.4	6	8.0	11.4



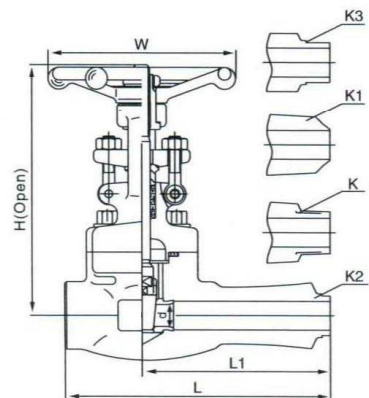
## CL800 Bolted bonnet, reducing port outside screw and yoke(OS & Y) Threaded, butt-welded or socket welded ends; design to API 602API606

Specification(NPS)	L1	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	192	215	239	239	258	262
		153	153	182	182	216	216
Extended length	L1	152	170	184	184	193	197
		108	108	127	127	152	152
Handwheel diameter	W	100	100	125	160	160	180
Height	H	161	163	196	223	251	290
Flow port dimension	d	10.5	13.5	18	24	29	36.5
Weight(Kg)	K,K1,K3	2.8	2.0	5.5	7	8.5	12.1
		2.4	2.5	5	6.1	7.8	11.5



## CL1500 Welded bonnet, reducing port outside screw and yoke(OS & Y) Threaded, butt-welded or socket welded ends; design to API 602, API606

Specification(NPS)	L1	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	239	239	239	258	262	264
		182	182	182	216	216	264
Extended length	L1	184	184	184	193	197	189
		127	127	127	152	152	189
Handwheel diameter	W	125	125	160	160	180	200
Height	H	207	207	240	258	330	370
Flow port dimension	d	10.5	13.5	18	24	29	36.5
Weight(Kg)	K,K1,K3	5.6	5.6	7.1	8.7	12.5	16.3
		5.1	5.1	6.2	8	11.7	15.7



## CL1500 Bolted bonnet, reducing port outside screwed yoke (OS & Y) Threaded, butt-welded or socket welded ends; design to API 602, API 606

Specification(NPS)	L1	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	239	239	239	258	262	264
		182	182	182	216	216	264
Extended length	L1	184	184	184	193	197	189
		127	127	127	152	152	189
Handwheel diameter	W	125	125	160	160	180	200
Height	H	207	207	240	258	330	370
Flow port dimension	d	10.5	13.5	18	24	29	36.5
Weight(Kg)	K,K1,K3	6	6	7.7	9.2	13.2	16.7
		5.7	5.7	6.5	8.2	12.3	15.9



## CL150-300-600 Bolted bonnet, reducing port outside screw and yoke(OS & Y) Flange-welded or butt-welded ends; design to API602 Bs5352

Specification(NPS)			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	CL150	L(RF)	–	–	108	117	127	140	165	178	190
	CL300	L1(BW)	–	–	140	152	165	178	190	216	241
	CL600		–	–	165	190	216	229	241	292	330
Handwheel diameter		W	–	–	100	100	125	160	160	180	200
Height	CL150	H	–	–	176	184	217	226	250	290	357
	CL300,CL600		–	–	161	163	196	226	250	290	357
Height (angle dimension)		d	–	–	10	13.5	18	24	29	36.5	45
Weight (Kg)	CL150	RF	–	–	3.4	3.98	6.12	7.2	10.4	15.5	24.5
		BW	–	–	2.8	3.3	5.4	7.1	8.2	12.5	20
	CL300	RF	–	–	3.77	4.89	7.23	9.6	12.64	18	26.2
		BW	–	–	3.5	4.4	6.8	8.1	9.2	15.4	22
	CL600	RF	–	–	4.2	5.8	8.8	12.1	15.6	19.5	32
		BW	–	–	4.5	5.1	8.2	10.5	12.4	20.1	28

If you want to order one piece body, please contact with us

## CL900-CL1500 Welded bonnet, full port outside screw and yoke(OS & Y) Flange-welded or butt-welded ends; design to BS 5352

Specification(NPS)			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RF),L1(BW)		–	–	216	229	254	279	305	368
	L(RTJ)		–	–	216	229	254	279	305	371
Handwheel diameter	W		–	–	125	125	160	180	200	220
Height	H		–	–	191	192	219	257	296	316
Height(angle dimension)	d		–	–	13.5	18	24	29	36.5	45
Weight(Kg)			–	–	7.2	11.5	15.6	16.2	22.6	28.2

If you want to order one piece body, please contact with us

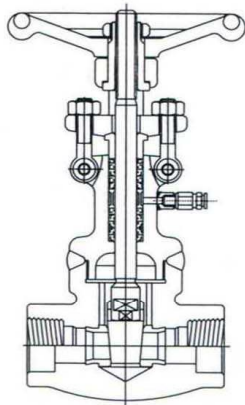
## CL2500 Bolted bonnet, full port outside screw and yoke(OS & Y) Flange-welded or butt-welded ends; design to ASME B16.34

Specification(NPS)			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	–	384	451
	L(RTJ)		–	–	264	273	308	–	387	454
Handwheel diameter	W		–	–	125	160	160	–	200	240
Height	H		–	–	207	240	258	–	355	370
Height(angle dimension)	d		–	–	13.5	13.5	19	–	30	36.5
Weight(Kg)			–	–	19.5	21.5	42	–	65	95

## CL2500 Pressure seal gate valves, full port outside screw and yoke(OS & Y) Flange-welded or butt-welded ends; design to ASME B16.34

Specification(NPS)			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RF),L1(BW)		–	–	264	273	308	–	384	451
	L(RTJ)		–	–	264	273	308	–	387	454
Handwheel diameter	W		–	–	200	200	200	–	280	300
Height	H		–	–	325	325	327	–	478	540
Height(angle dimension)	d		–	–	13.5	13.5	19	–	30	36.5
Weight(Kg)			–	–	4.6	6.8	7.6	–	15	21.9

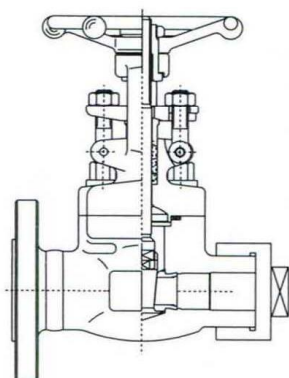




Welded bonnet  
OS & Y  
Packing  
Distance ring  
Injector sealing  
gum valves  
Solid wedge

## Vacuum gate valves

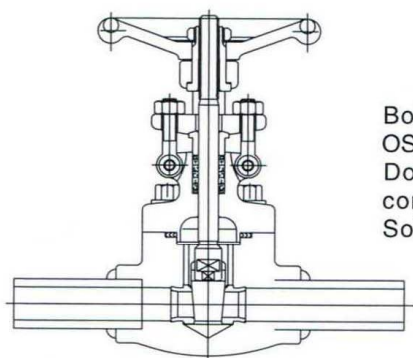
CLASS 800 API 602–BS 5352 Reduced port & full port	Temperature– pressure rate	Materials		
		Body/bonnet	Trim	
	1975 psi @ 100 F	Cast steel	13Cr	B7



Bolted  
OS & Y  
Cap fitting  
connection  
Solid wedge

## For venting and/or releasing media

CLASS 800 API 602–BS 5352 Reduced port & full port	Temperature– pressure rate	Materials		
		Body/bonnet	Trim	Bolt
	1975 psi @ 100 F	Cast steel	13Cr	B7

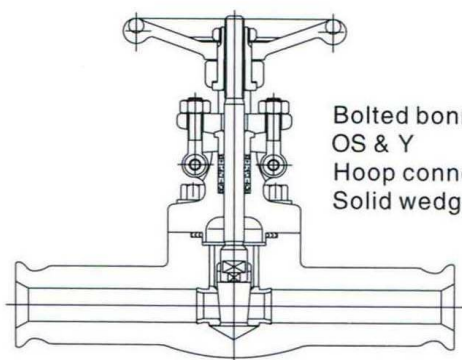


Bolted bonnet  
OS & Y  
Double end pipe  
connection  
Solid wedge

## Coupling pipe valves

CLASS 800 API 602–BS 5352 Reduced port & full port	Temperature– pressure rate	Materials		
		Body/bonnet	Trim	Bolt
	1975 psi @ 100 F	Cast steel	13Cr	B7

Please explain pipe length to sale pers on when you order.



Bolted bonnet  
OS & Y  
Hoop connection  
Solid wedge

## Hoop gate valves

CLASS 800 API 602–BS 5352 Reduced port & full port	Temperature– pressure rate	Materials		
		Body/bonnet	Trim	Bolt
	1975 psi @ 100 F	Cast steel	13Cr	B7