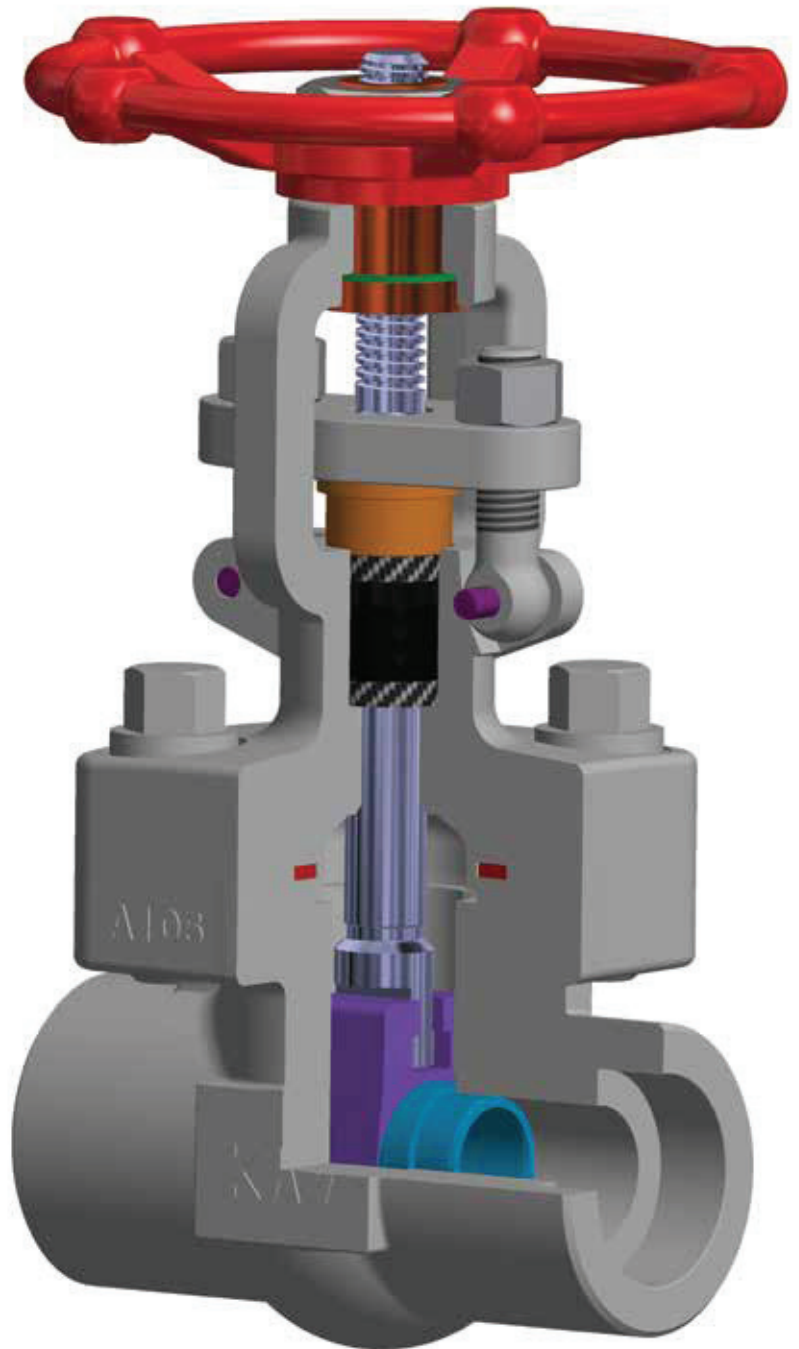
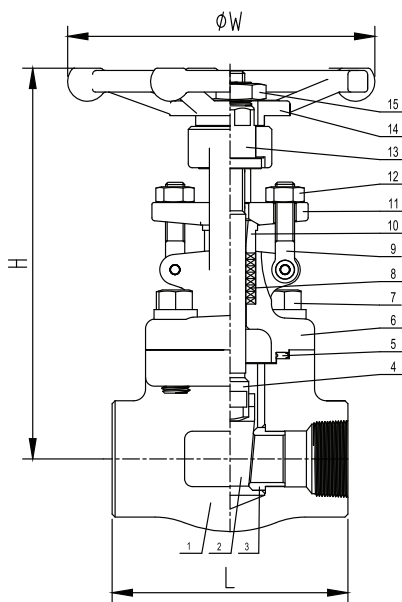


FORGED STEEL GATE VALVE

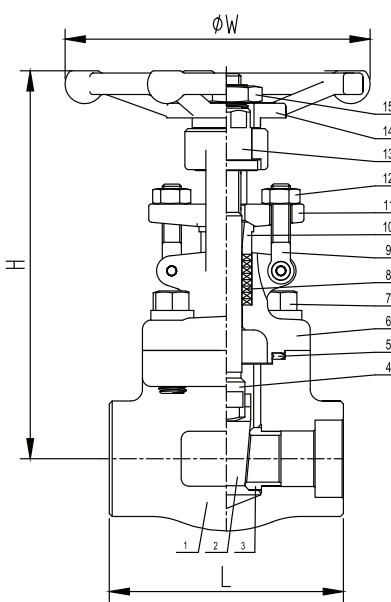
- API602 standard and applicable international specifications as required.
- Full or reduced port design.
- RF, RTJ, SW, BW and NPT end connections.
- ASME/API/NACE/DIN materials.
- Full range of body, bonnet and trim materials.
- Bolted, pressure seal or welded bonnet available.
- Solid wedge.
- Renewable seat rings available
- OS&Y outside screw and yoke
- Extended stem, lock device, bypass, position indication, bellow seal, cryogenic service on customer's request.



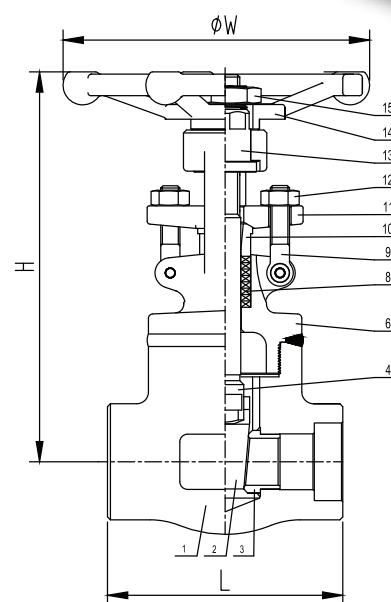
FORGED STEEL GATE VALVE



Bolted Bonnet, NPT ends



Bolted Bonnet, SW ends



Welded Bonnet, SW or NPT ends

STANDARD MATERIALS OF FORGED STEEL GATE VALVE

No.	Parts Name	Carbon Steel	Carbon Steel (Low Temp.)	Alloy Steel	Stainless Steel
1	Body	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
2	Wedge		As Per API600 Trim		
3	Seat Ring		As Per API600 Trim		
4	Stem		As Per API600 Trim		
5	Gasket		SS316+ Graphite or Ring Joint		
6	Bonnet	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
7	Bonnet Bolts	A193 Gr.B7	A320 Gr.L7	A193 Gr.B16	A193 Gr.B8M
8	Packing		Graphite		
9	Gland Eye Bolts	A193 Gr.B7	A320 Gr.L7	A193 Gr.B16	A193 Gr.B8M
10	Gland		As Per API600 Trim		
11	Gland Flange	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
12	Eye Bolt Nuts	A193 Gr.2H	A193 Gr.7	A193 Gr.4	A193 Gr.8M
13	Stem Nut		A276 Gr.410		
14	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
15	Handwheel Nut	Carbon Steel	Carbon Steel	Carbon Steel	Stainless Steel

CL 800 STANDARD AND FULL BORE

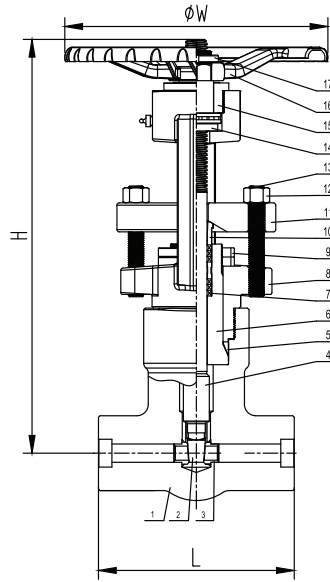
NPS	RP	in	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	FP	in	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"
L	mm	79	92	111	120	120	140	
H(Open)	mm	158	169	197	236	246	283	
W	mm	100	100	125	160	160	220	
WT(BB)	kg	2.0	2.3	4.3	5.9	6.9	11.1	
WT(WB)	kg	1.8	2.0	3.8	5.1	6.1	10.2	

CL 900 /CL 1500 STANDARD AND FULL BORE

NPS	RP	in	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	FP	in	3/8"	1/2"	1/2"	1"	1 1/4"	1 1/2"
L	mm	111	111	120	120	140	160	
H(Open)	mm	197	197	236	246	283	330	
W	mm	125	125	160	160	220	220	
WT(BB)	kg	4.2	4.2	6.7	8.7	12.5	17.2	
WT(WB)	kg	4.0	4.0	6.3	8.7	12.1	17.2	

CL 2500 STANDARD AND FULL BORE

NPS	RP	in	1/2"	3/4"	1"	1 1/2"	2"
	FP	in	3/8"	1/2"	1/2"	1 1/4"	1 1/2"
L	mm	150	150	200	200	230	
H(Open)	mm	285	285	324	380	474	
W	mm	220	220	220	280	350	
WT(BB)	kg	12.1	12.1	19.4	33.3	51.9	



Pressure Seal Bonnet, SW or NPT ends

STANDARD MATERIALS OF FORGED STEEL PRESSURE SEAL GATE VALVE

No.	Parts Name	Carbon Steel	Carbon Steel (Low Temp.)	Alloy Steel	Stainles Steel
1	Body	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
2	Wedge		As Per API600 Trim		
3	Seat Ring		As Per API600 Trim		
4	Stem		As Per API600 Trim		
5	Seal Ring		SS316 or SS304		SS316L
6	Bonnet	A276 Gr.410	A276 Gr.410	A276 Gr.410	A182 Gr.F316
7	Packing		Graphite		
8	Yoke	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
9	Round Nut	A276 Gr.410	A276 Gr.410	A276 Gr.410	A193 Gr.8M
10	Gland		As Per API600 Trim		
11	Gland Flange	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
12	Nuts	A193 Gr.2H	A193 Gr.7	A193 Gr.4	A193 Gr.8M
13	Gland Bolts	A193 Gr.B7	A320 Gr.L7	A193 Gr.B16	A193 Gr.B8M
14	Stem Nut		A276 Gr.410		
15	Retaining Nut	Carbon Steel	Carbon Steel	Carbon Steel	Stainless Steel
16	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
17	Handwheel Nut	Carbon Steel	Carbon Steel	Carbon Steel	Stainless Steel

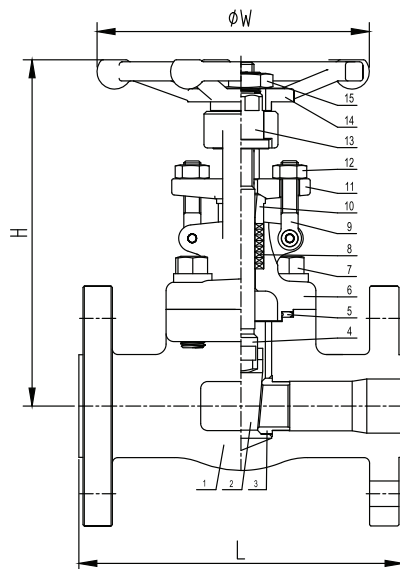
CL 900 /CL 1500 STANDARD BORE

NPS	in	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	mm	140	140	140	178	178	216
H(Open)	mm	321	321	321	380	414	502
W	mm	160	160	180	180	220	280
WT	kg	11.5	11.5	13.5	19.6	21	45.5

CL 2500 STANDARD BORE

NPS	in	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	mm	186	186	186	228	228	275
H(Open)	mm	344	344	350	498	498	543
W	mm	220	220	220	280	280	350
WT	kg	13	13	14	26	28.4	60

FORGED STEEL GATE VALVE



Bolted Bonnet, RF ends

STANDARD MATERIALS OF FORGED STEEL GATE VALVE

No.	Parts Name	Carbon Steel	Carbon Steel (Low Temp.)	Alloy Steel	Stainles Steel
1	Body	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
2	Wedge		As Per API600 Trim		
3	Seat Ring		As Per API600 Trim		
4	Stem		As Per API600 Trim		
5	Gasket		SS316+ Graphite or Ring Joint		
6	Bonnet	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
7	Bonnet Bolts	A193 Gr.B7	A320 Gr.L7	A193 Gr.B16	A193 Gr.B8M
8	Packing		Graphite		
9	Gland Eye Bolts	A193 Gr.B7	A320 Gr.L7	A193 Gr.B16	A193 Gr.B8M
10	Gland		As Per API600 Trim		
11	Gland Flange	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
12	Eye Bolt Nuts	A193 Gr.2H	A193 Gr.7	A193 Gr.4	A193 Gr.8M
13	Stem Nut		A276 Gr.410		
14	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
15	Handwheel Nut	Carbon Steel	Carbon Steel	Carbon Steel	Stainless Steel

CL 150 STANDARD BORE

NPS	in	1/2"	3/4"	1"	1 1/2"	2"
L(RF)	mm	108	117	127	165	178
H(Open)	mm	158	169	197	246	283
W	mm	100	100	120	160	220
WT	kg	2.9	3.4	5.3	8.8	14.2

CL 300 STANDARD BORE

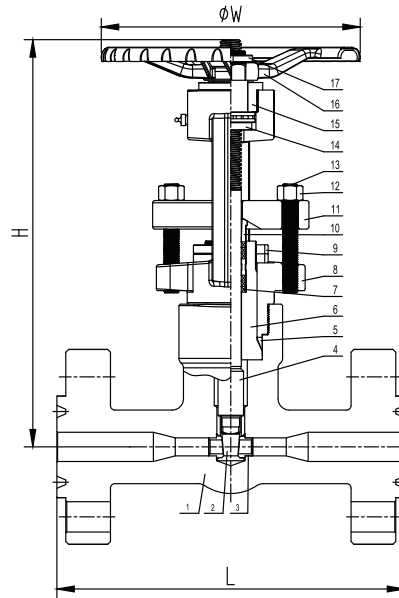
NPS	in	1/2"	3/4"	1"	1 1/2"	2"
L(RF)	mm	140	152	165	190	216
H(Open)	mm	158	169	197	246	283
W	mm	100	100	120	160	220
WT	kg	3.6	4.5	6.7	11.5	17.3

CL 600 STANDARD BORE

NPS	in	1/2"	3/4"	1"	1 1/2"	2"
L(RF)	mm	165	190	216	241	292
H(Open)	mm	158	169	197	246	283
W	mm	100	100	120	160	220
WT	kg	5.9	7.4	10.4	17.5	28.3

CL 900 /CL 1500 STANDARD BORE

NPS	in	1/2"	3/4"	1"	1 1/2"	2"
L(RF)	mm	216	229	254	305	371
H(Open)	mm	197	197	236	283	330
W	mm	120	120	160	220	220
WT	kg	7.2	11.5	15.5	22.6	32.8



Pressure Seal Bonnet, RF or RTJ ends

STANDARD MATERIALS OF FORGED STEEL PRESSURE SEAL GATE VALVE

No.	Parts Name	Carbon Steel	Carbon Steel (Low Temp.)	Alloy Steel	Stainless Steel
1	Body	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
2	Wedge		As Per API600 Trim		
3	Seat Ring		As Per API600 Trim		
4	Stem		As Per API600 Trim		
5	Seal Ring		SS316 or SS304		SS316L
6	Bonnet	A276 Gr.410	A276 Gr.410	A276 Gr.410	A182 Gr.F316
7	Packing		Graphite		
8	Yoke	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
9	Round Nut	A276 Gr.410	A276 Gr.410	A276 Gr.410	A193 Gr.8M
10	Gland		As Per API600 Trim		
11	Gland Flange	A105	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F316
12	Nuts	A193 Gr.2H	A193 Gr.7	A193 Gr.4	A193 Gr.8M
13	Gland Bolts	A193 Gr.B7	A320 Gr.L7	A193 Gr.B16	A193 Gr.B8M
14	Stem Nut		A276 Gr.410		
15	Retaining Nut	Carbon Steel	Carbon Steel	Carbon Steel	Stainless Steel
16	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
17	Handwheel Nut	Carbon Steel	Carbon Steel	Carbon Steel	Stainless Steel

CL 900 /CL 1500 STANDARD BORE

NPS	in	1/2"	3/4"	1"	1 1/2"	2"
L(RF)	mm	216	229	254	305	368
H(Open)	mm	321	321	321	414	502
W	mm	160	160	180	220	280
WT	kg	16.7	17	21.3	28.7	60

CL 2500 STANDARD BORE

NPS	in	1/2"	3/4"	1"	1 1/2"	2"
L(RTJ)	mm	264	273	308	387	454
H(Open)	mm	344	344	350	498	543
W	mm	220	220	220	280	350
WT	kg	21.5	24.7	30.4	58.1	80