



Forged Steel Valve & Bellows Seal Valve

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维柯阀门有限公司
WEIKE VALVE CO.,LTD.



WEKE VALVES was established in year 2014, as one of the professional valve manufacturers in China, WEKE is specialized in the development of innovative design, through intensive R&D programs and a commitment to be a good partner of flow control system.

WEKE main product lines include Ball, Gate, Globe, Check, Butterfly and Bellows Sealed valves. These products have been widely used throughout the world in Oil, Gas, Chemical, Refining, Power Generation, Marine and Pipeline Transmission industrial application.

Quality Assurance

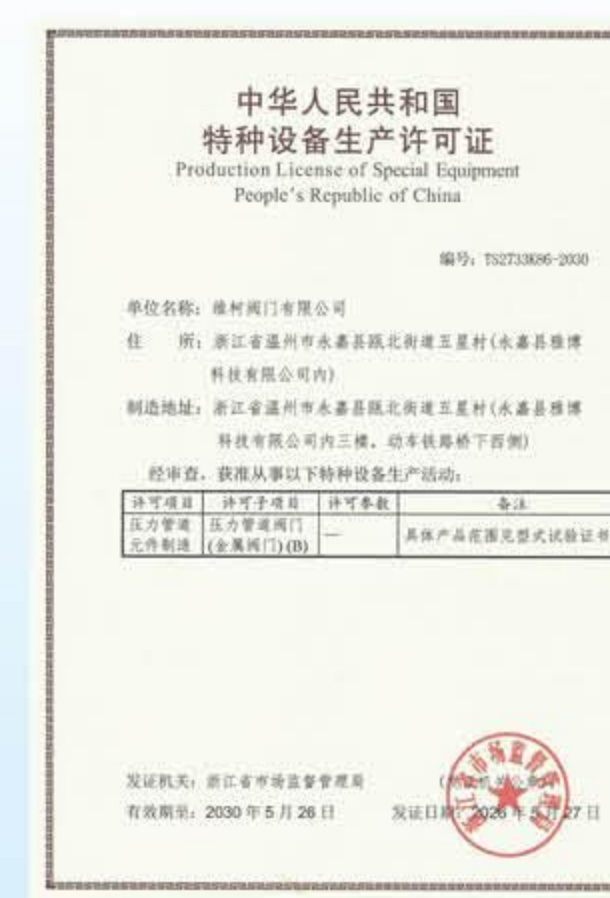
WEKE quality assurance is dedicated to supply zero defect valves to customers with reliable service life. Through our quality compliance, we have achieved the following certifications: ISO9001, CE/PED, API607,TA Luft/ISO15848-1 and TS. In future, we will continue to build qualified products that meet and exceed our customers' satisfaction.

Service

WEKE provides professional valve selection support based on your application requirements, including recommendations for valve type, material, pressure rating, connection standards, and operating conditions. We can supply detailed quotations, technical drawings, and product specifications to help you evaluate the most suitable solution. In addition, 3D models are available for engineering design, project planning, and installation verification, ensuring a smooth and efficient procurement process.



ISO 9001



TS 2733K86-2030



API 607 Fire Safe



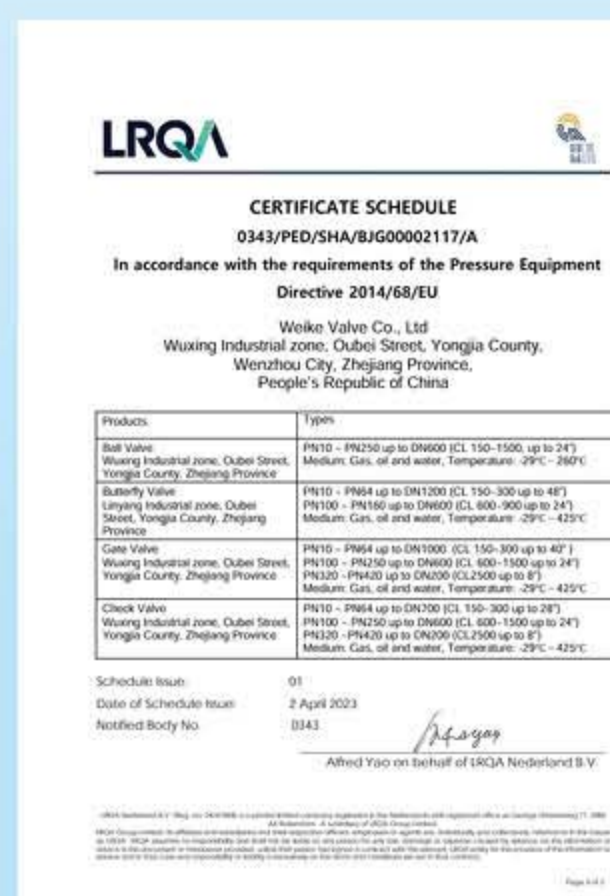
ISO 15848-1 Forged Globe Valve

Contents

- 01 Company Introduction
- 03 How To Order
- 04 Gate Valve
- 11 Globe Valve
- 19 Check Valve
- 26 Bellows Valve



CE 0343 / PED



CE 0343 / PED



CE 0343 / PED



ISO 15848-1 Forged Gate Valve

Example:

1 GA 6 S FW A105N / No.1

1
GA
6
S
FW
A105N
No.1

VALVE SIZE

VALVE TYPE

Valve Typ	Gate Valve	Pressure-seal Gate Valve	Globe Valve	Pressure-seal Globe Valve	Piston Check Valve	Swing Check Valve	Pressure-seal Piston Check Valv	Pressure-seal Swing Check Valve
Symbol	GA	GAPS	GL	GLP	P	SC	PP	SC

VALVE CLASS

ANSI Class	150	300	600	800	900	1500	2500
Symbol	1	3	3	8	9	15	25

END CONNECTION

End Connection	Socket Welding End	NPT Screwed End	Butt Welding End	800Screwed x Socket	Raised Flange	RTJ Flange
Symbol	S	N	B	SN	R	J

SPECIAL CODE

Description	Welding Bonnet	RTJ Bonnet	Full Port	Electric Actuator	Pneumatic Actuator
Symbol	WB	J	FP	M	BP

BODY MATERIALS

Body Materials	A105N	LF2	F11	F22	F5	F316	F304	F316L	F304L
ASTM Ref.	A105N	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F22	A182 Gr.F5	A182 Gr.F316	A182 Gr.F304	A182 Gr.F316L	A182 Gr.F304L

TRIM MATERIALS

Symbol	API600	Disc Surface	Seat Surface	Stem Materials	Stem Materials
No.1	1	Er410	Er410	ASTM A182-F6a	ASTM A276 T410
No.2	2	304	304	ASTM A182-F304	ASTM A276 T304
No.5	5	ERCoCrA	ERCoCrA	ASTM A182-F6a	ASTM A276 T410
No.8	8	ERCoCrA	Er410	ASTM A182-F6a	ASTM A276 T410
No.10	10	316	316	ASTM A182-F316	ASTM A276 T316
No.12	12	ERCoCrA	316	ASTM A182-F316	ASTM A276 T316
No.15	15	ERCoCrA	ERCoCrA	ASTM A182-F304	ASTM A276 T304
No.16	16	ERCoCrA	ERCoCrA	ASTM A182-F316	ASTM A276 T316



Bolted Bonnet



Bolted Bonnet



Welded Bonnet



Pressure Seal Bonnet

FORGED STEEL GATE VALVES

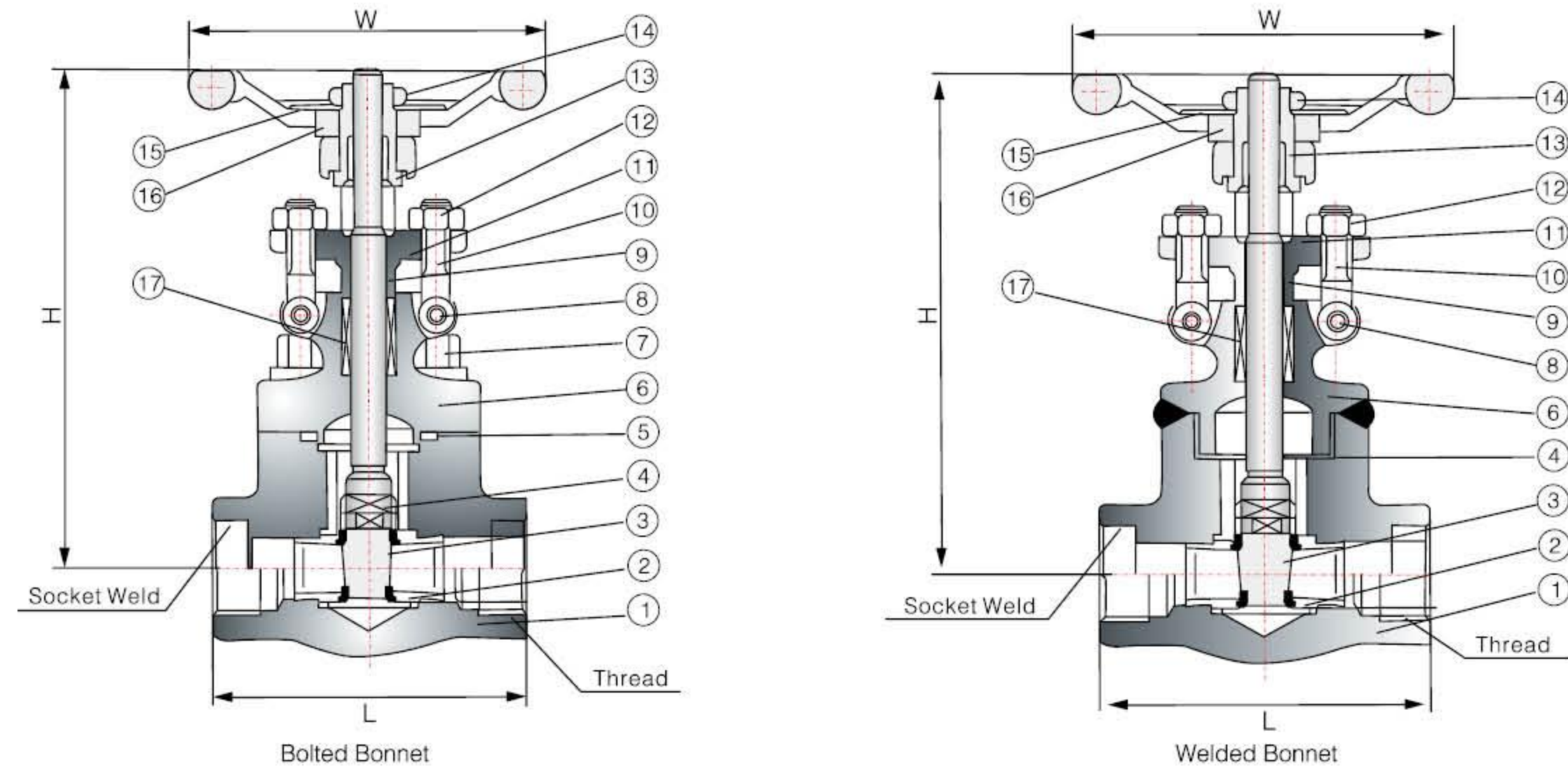
WEKE forged steel gate valve are manufactured in accordance with API602, ISO15761 and ASME B16.34 and tested to API598. And forged steel gate valve are available in three bonnet designs: bolted bonnet, welded bonnet and pressure seal bonnet.



Design Feature

- Full port or Reduced port
- OS&Y, Outside screw and yoke
- The gland and gland flange self aligning design
- Bolted bonnet/Welded Bonnet/Pressure seal bonnet
- Integral backseat
- Socket welded (SW) ends to ASME B16.11
- Screwed ends (NPT) to ASME B1.20.1
- Flanges (RF/RTJ) according to ASME B16.5
- Integral flange or welded flange
- BW ends to ASME B16.25
- Low emission certified (optional)
- Cryogenic forged steel gate valve (optional)

800LB 900LB 1500LB
SW/NPT END



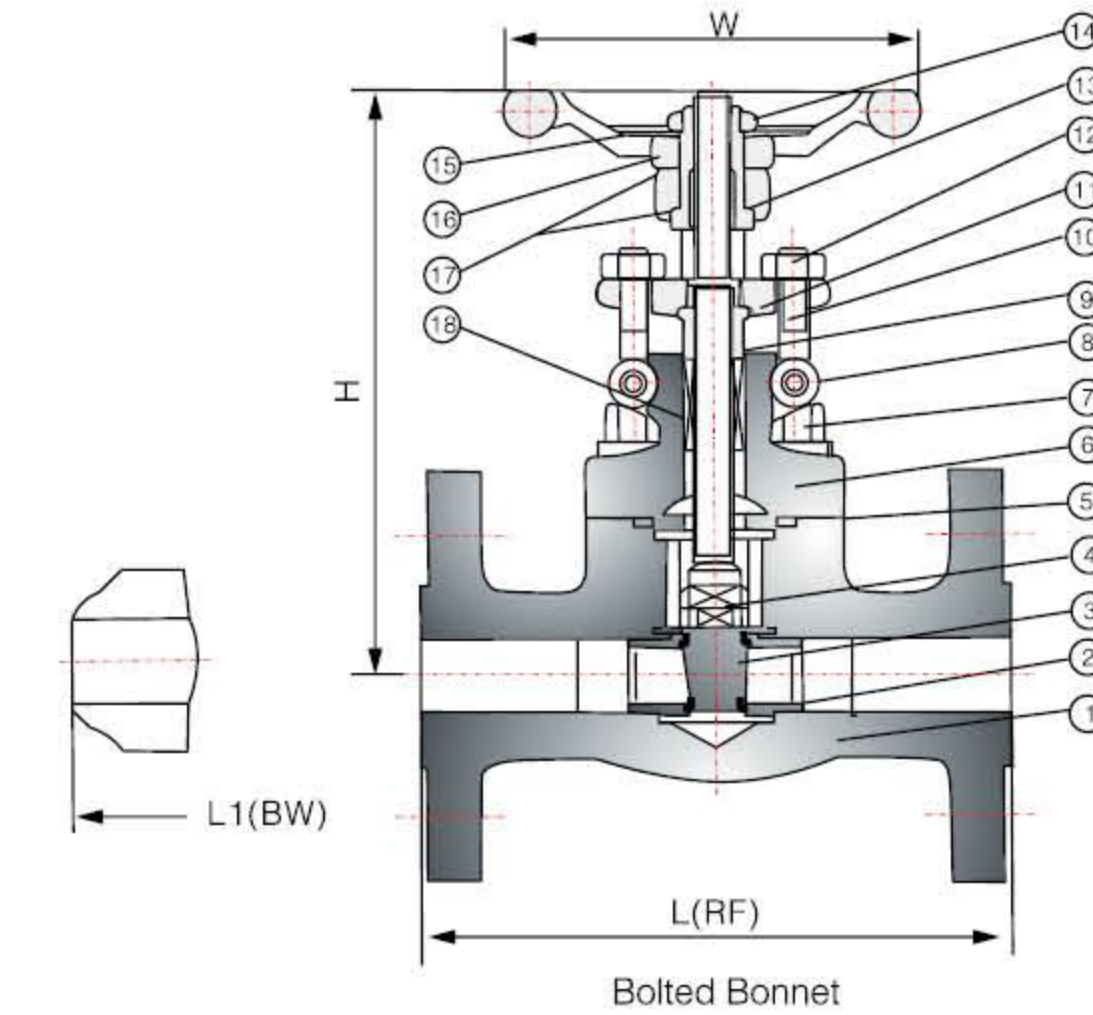
Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat	A182 F6a+STL.6	A182 F304	A182 F304(L)	A182 F316(L)
3	Wedge	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	SPW.SS304+Graphite	SPW.SS304+Graphite	SPW.SS304+Graphite	SPW.SS316+Graphite
6	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 410	A276 304	A276 304	A276 316
9	Gland	A276 410	A276 304	A276 304	A276 316
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105N	A182 F22	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 410	A276 410	A276 410	A276 410
14	H.W. Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS304	SS304	SS304	SS304
16	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
17	Stem Packing	Flexible graphite	Flexible graphite	PTFE	PTFE

Dimension and Weight

NPS	Conv. Full		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	
			/	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
800LB	L	mm	76	76	92	106	120	114	144	170	
	H(OPEN)	mm	158	158	169	197	236	246	283	330	
	W	mm	100	100	100	125	160	160	160	200	
	Weight	Bolted	kg	2.0	2.1	2.3	4.3	5.9	6.9	11.1	15.2
		Welded	kg	1.7	1.8	2.0	3.8	5.1	6.1	10.2	14.2
900LB 1500LB	L	mm	111	111	111	120	120	140	170	210	
	H(OPEN)	mm	169	197	197	236	246	283	330	354	
	W	mm	125	125	125	160	160	180	200	210	
	Weight	Bolted	kg	2.5	4.2	4.3	6.6	8.8	12.5	17.2	23.5
		Welded	kg	2.4	4.0	4.2	6.3	8.7	12.1	17.2	22.0

150LB ~1500LB
RF/BW END



Material List

No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105N	Type LF3	Type F304(L)	Type F316(L)
1	Body	A105N	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat	A182 F6a+STL.6	A182 304	A182 304(L)	A182 316(L)
3	Wedge	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	SPW.SS304+Graphite	SPW.SS304+Graphite	SPW.SS304+Graphite	SPW.SS316+Graphite
6	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 410	A276 304	A276 304	A276 304
9	Gland	A276 410	A276 304	A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105N	A182 F22	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276-410	A276-410	A276-410	A276-410
14	H.W. Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS	SS	SS	SS
16	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
17	Stem Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite

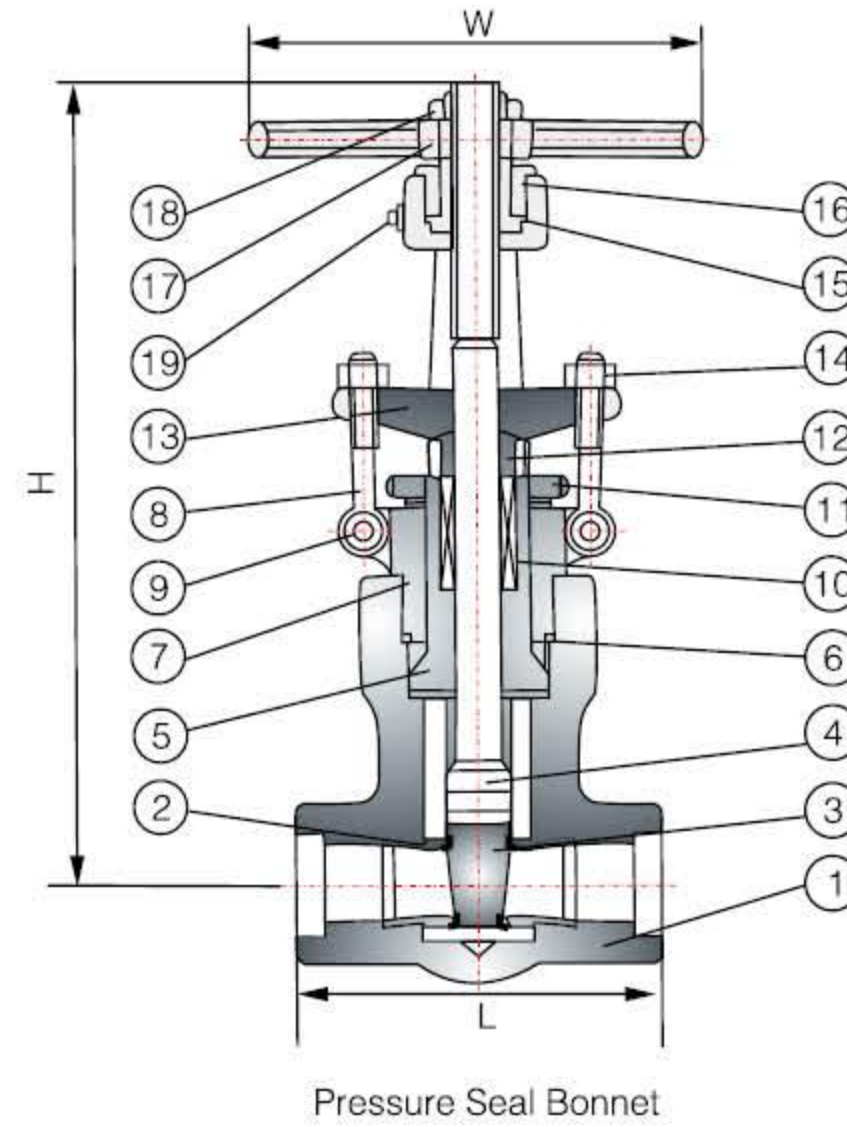
Dimension and Weight

NPS		mm	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
			900LB	L(RF)	216	229	254	279	305
150LB	L1(BW)	mm	108	117	127	140	165	178	
	H(OPEN)	mm	158	169	197	236	246	283	
	W	mm	100	100	125	160	160	160	
	Weight	RF	kg	4.5	5.2	8.2	11.5	12.5	20.3
		BW	kg	2.8	3.3	5.4	7.1	8.2	12.5
300LB	L(RF)	mm	140	152	165	178	190	216	
	L1(BW)	mm	140	152	165	178	190	216	
	H(OPEN)	mm	158	169	197	236	246	283	
	W	mm	100	100	125	160	160	160	
	Weight	RF	kg	4.8	6.2	9.3	14	15.5	23.4
BW		kg	3.5	4.4	6.8	8.1	9.2	15.4	
600LB	L(RF)	mm	165	190	216	229	241	292	
	L1(BW)	mm	165	190	216	229	241	292	
	H(OPEN)	mm	169	197	236	246	283	320	
	W	mm	100	100	125	160	160	160	
	Weight	RF	kg	5.9	7.4	10.4	16.2	17.5	28.3
BW		kg	4.5	5.1	8.2	10.5	12.4	20.1	

PRESSURE SEAL GATE VALVE



900LB ~ 2500LB
SW/NPT END



Pressure Seal Bonnet

Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat	A182 F6a+STL .6	A182 F304	A182 F304(L)	A182 F316(L)
3	Wedge	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Seat	A105N	A182 F304	A182 F304(L)	A182 F316(L)
6	Pressure Ring	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
7	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)
8	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
9	Pin	A276 410	A276 304	A276 304	A276 316
10	Stem Packing	Flexible graphite	Flexible graphite	PTFE	PTFE
11	P.S. Lock Nut	A105N	A182 F22	A182 F304(L)	A182 F316(L)
12	Gland	A276 410	A276 304	A276 304	A276 316
13	Gland Flange	A105N	A182 F22	A182 F304(L)	A182 F316(L)
14	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276 410	A276 410	A276 410	A276 410
16	Retaining Nut	A105N	A182 F22	A182 F304(L)	A182 F316(L)
17	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
18	H.W. Lock Nut	A194 2H	A194 4	A194 8	A194 8M
19	Oil Cup	Brass	Brass	Brass	Brass

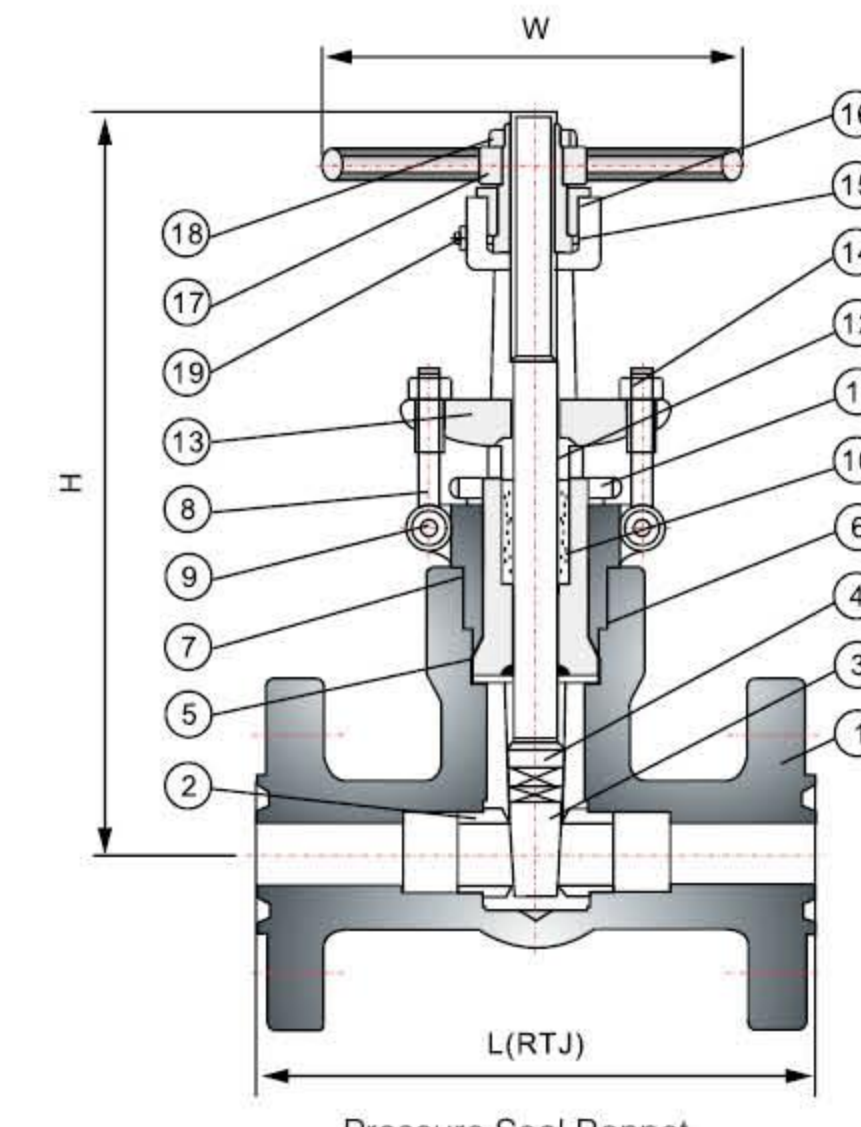
Dimension and Weight

	NPS		NPS					
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
900LB	L	mm	120	120	140	178	178	216
	H(OPEN)	mm	321	321	321	380	414	502
	W	mm	160	160	180	200	250	280
	Weight	kg	10.5	10.8	11.5	19.6	21.0	55.4
1500LB	L	mm	120	120	140	178	178	216
	H(OPEN)	mm	321	321	321	380	414	502
	W	mm	160	160	180	200	250	280
	Weight	kg	10.5	10.8	11.5	19.6	21.0	55.4
2500LB	L	mm	140	140	186	232	232	279
	H(OPEN)	mm	321	321	321	380	414	502
	W	mm	160	160	180	200	250	280
	Weight	kg	10.8	11.6	12.3	26.0	28.4	60.0

PRESSURE SEAL GATE VALVE



900LB~2500LB
RTJ END



Pressure Seal Bonnet

Material List

No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105N	Type LF3	Type F304(L)	Type F316(L)
1	Body	A105N	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat	A182 F6a+STL .6	A182 F304	A182 F304(L)	A182 F316(L)
3	Wedge	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Seat	A105N	A182 F304	A182 F304(L)	F316(L)
6	Pressure Ring	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
7	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)
8	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
9	Pin	A276 410	A276 304	A276 304	A276 316
10	Stem Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite
11	P.S. Lock Nut	A194 2H	A194 4	A194 8	A194 8M
12	Gland	A182 F6a	A182 304	A182 F304(L)	A182 F316(L)
13	Gland Flange	A105N	A105N	F304	F304
14	Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276 420	A276 420	A276 420	A276 420
16	Retaining Nut	A105N	A182 F22	A182 F304(L)	A182 F316(L)
17	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
18	H.W. Lock Nut	A194 2H	A194 4	A194 8	A194 8M
19	Oil Cup	Brass	Brass	Brass	Brass

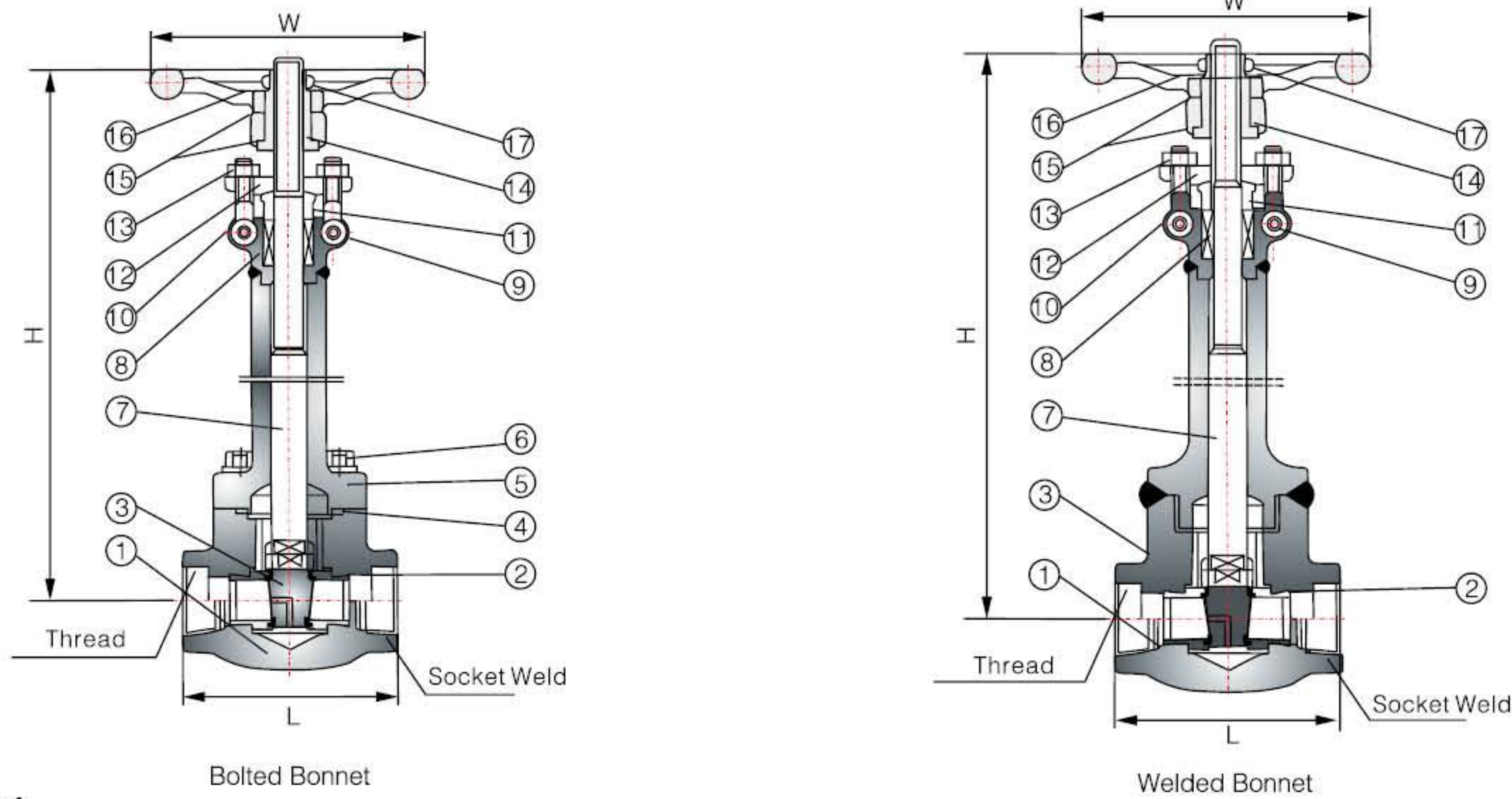
Dimension and Weight

	NPS		NPS					
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
900LB	L(RTJ)	mm	216	229	254	279	305	317
	H(OPEN)	mm	216	250	270	320	350	445
	W	mm	160	160	180	200	250	280
	Weight	kg	19.6	21.5	25.7	37.8	48.5	99.8
1500LB	L(RTJ)	mm	216	229	254	279	305	317
	H(OPEN)	mm	216	250	270	320	350	445
	W	mm	160	160	180	200	250	280
	Weight	kg	19.6	21.5	25.7	37.8	48.5	99.8
2500LB	L(RTJ)	mm	264	273	308	349	384	454
	H(OPEN)	mm	321	321	321	373	406	495
	W	mm	160	160	180	200	250	280
	Weight	kg	21.5	24.7	30.4	48.1	58.1	130.0

CRYOGENIC GATE VALVE



800LB
SW/NPT END



Material List

No.	Part Name	Low Temperature Cast Steel		Stainless Steel	
		A350 LF2	A350 LF3	A182 F304(L)	A182 F316(L)
1	Body	A350 LF2	A350 LF3	A182 F304(L)	A182 F316(L)
2	Seat	A182 F6a+STL.6	A182 F6a+STL.6	A182 F304(L)+STL	A182 F316(L)+STL
3	Wedge	A350 LF2	A350 LF3	A182 F304(L)+STL	A182 F316(L)+STL
4	Gasket	SPW.SS304+Graphite	SPW.SS304+Graphite	SPW.SS304+Graphite	SPW.SS316+Graphite
5	Bonnet	A350 LF2	A350 LF3	A182 F304(L)	A182 F316(L)
6	Bonnet Bolt	A320 L7	A320 L7	A193 B8	A193 B8M
7	Stem	A182 F6a	A182 F6a	A182 F304(L)	A182 F316(L)
8	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
9	Pin	A276 410	A276 410	A276 304	A276 316
10	Gland Eyebolt	A320 L7	A320 L7	A193 B8	A193 B8M
11	Gland	A276 410	A276 410	A276 304	A276 316
12	Gland Flange	A350 LF2	A350 LF3	A182 F304(L)	A182 F316(L)
13	Gland Nut	A194 4	A194 4	A194 8	A194 8M
14	Yoke Nut	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2
15	Nameplate	SS304	SS304	SS304	SS304
16	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
17	H.W. Lock Nut	A194 2H	A194 2H	A194 8	A194 8M

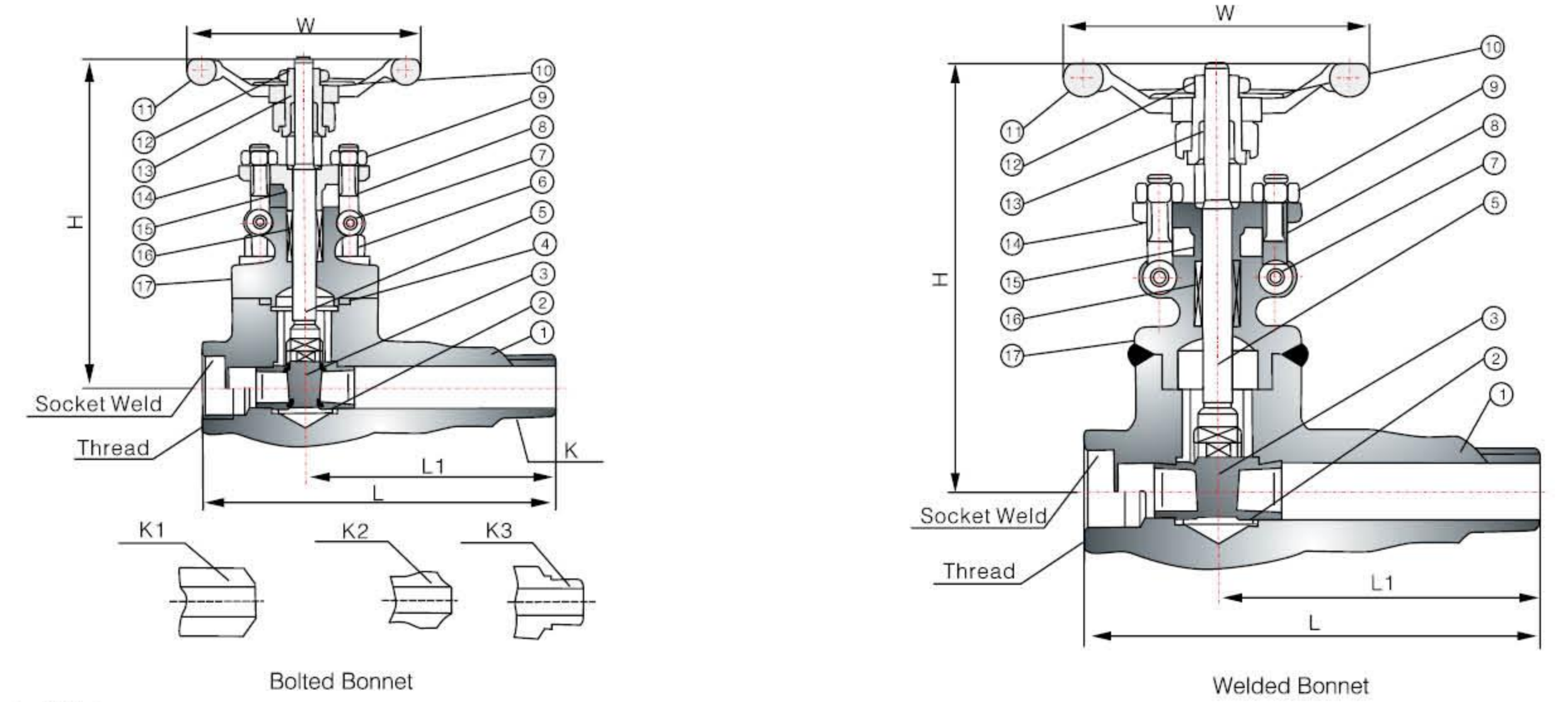
Dimension and Weight

NPS	Dimensions							
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	
L	76	92	106	120	114	144	170	
H(OPEN)	330	333	360	407	475	475	551	
W	100	100	125	160	160	180	200	
Weight	Bolted	5.2	7.1	9.4	13.5	15	17.8	28.0
	Welded	4.8	6.4	8.7	12.2	13.4	15.2	26.0

EXTENDED BODY GATE VALVE



800LB
SW/NPT END



Material List

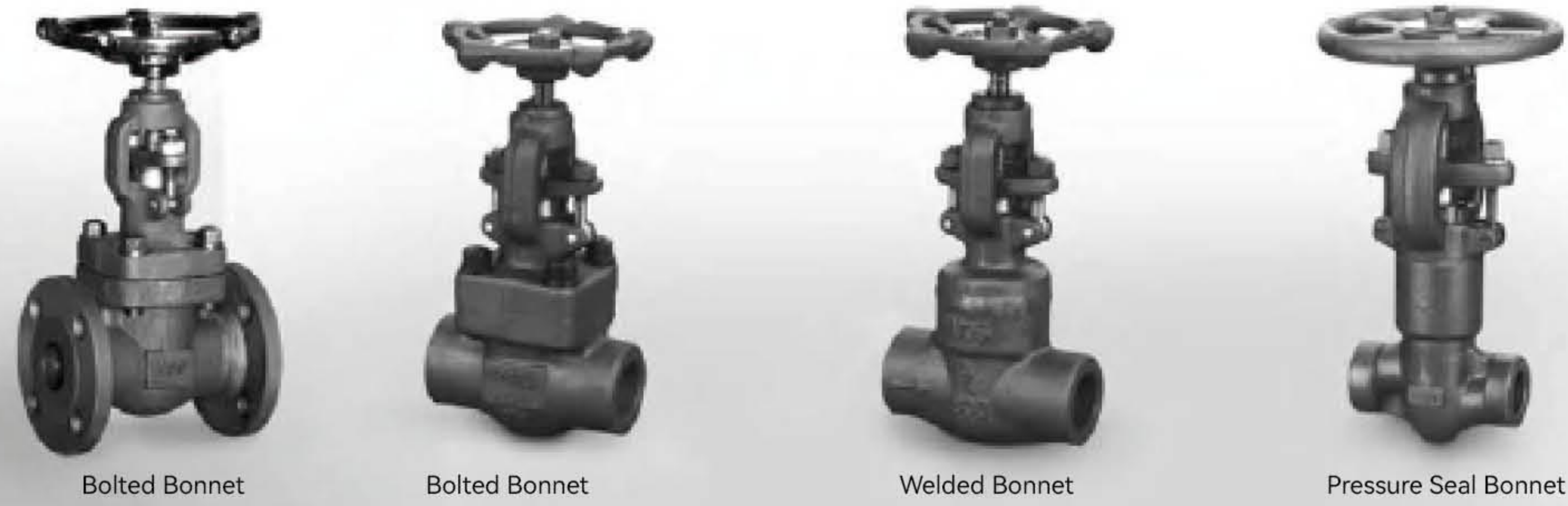
No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
		A105N	A182 F22	A182 F304(L)	A182 F316(L)
1	Body	A105N	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat	A182 F6a+STL.6	A182 F304	A182 F304(L)	A182 F316(L)
3	Wedge	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Gasket	SPW. SS304+Graphite	SPW. SS304+Graphite	SPW. SS304+Graphite	SPW. SS316+Graphite
5	Stem	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
6	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Pin	A276 410	A276 304	A276 304	A276 316
8	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
9	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
10	Nameplate	SS304	SS304	SS304	SS304
11	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
12	H.W. Lock Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 420	A276 420	A276 420	A276 420
14	Gland Flange	A105N	A182 F22	A182 F304(L)	A182 F316(L)
15	Gland	A276 410	A276 304	A276 304	A276 316
16	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
17	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)

The Specific Connection Code

Connection Code	K	K1	K2	K3
	Screwed Weld	Inclined End	A Full Strength End	Socket Weld End

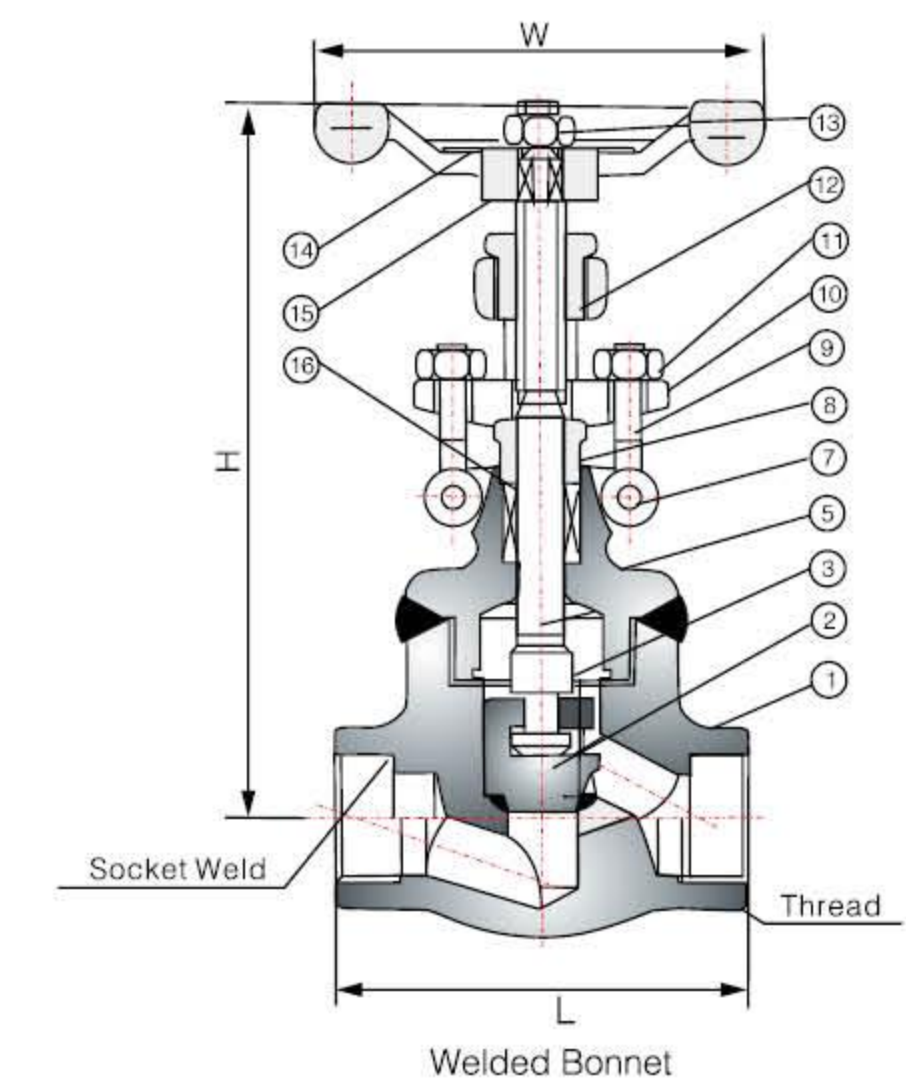
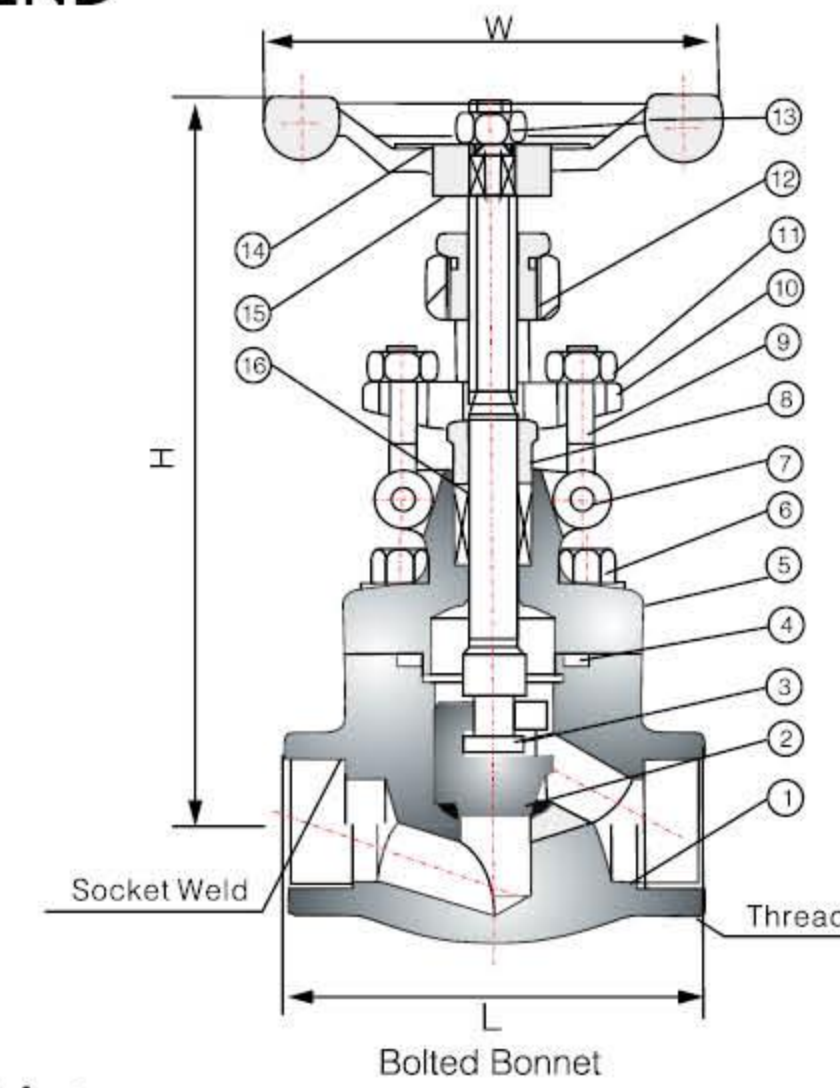
Dimension and Weight

NPS	Dimensions							
	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
L1	107.5	107.5	107.5	120	127	127	152	
L	147	147	153.5	175.5	187	187	222	
H(OPEN)	158	158	169	197	236	246	283	
W	100	100	100	125	160	160	180	
Weight	Bolted	3.1	2.9	3.4	5.5	7.8	13.4	
	Welded	2.8	2.6	3.1	5.1	7.4	12.1	



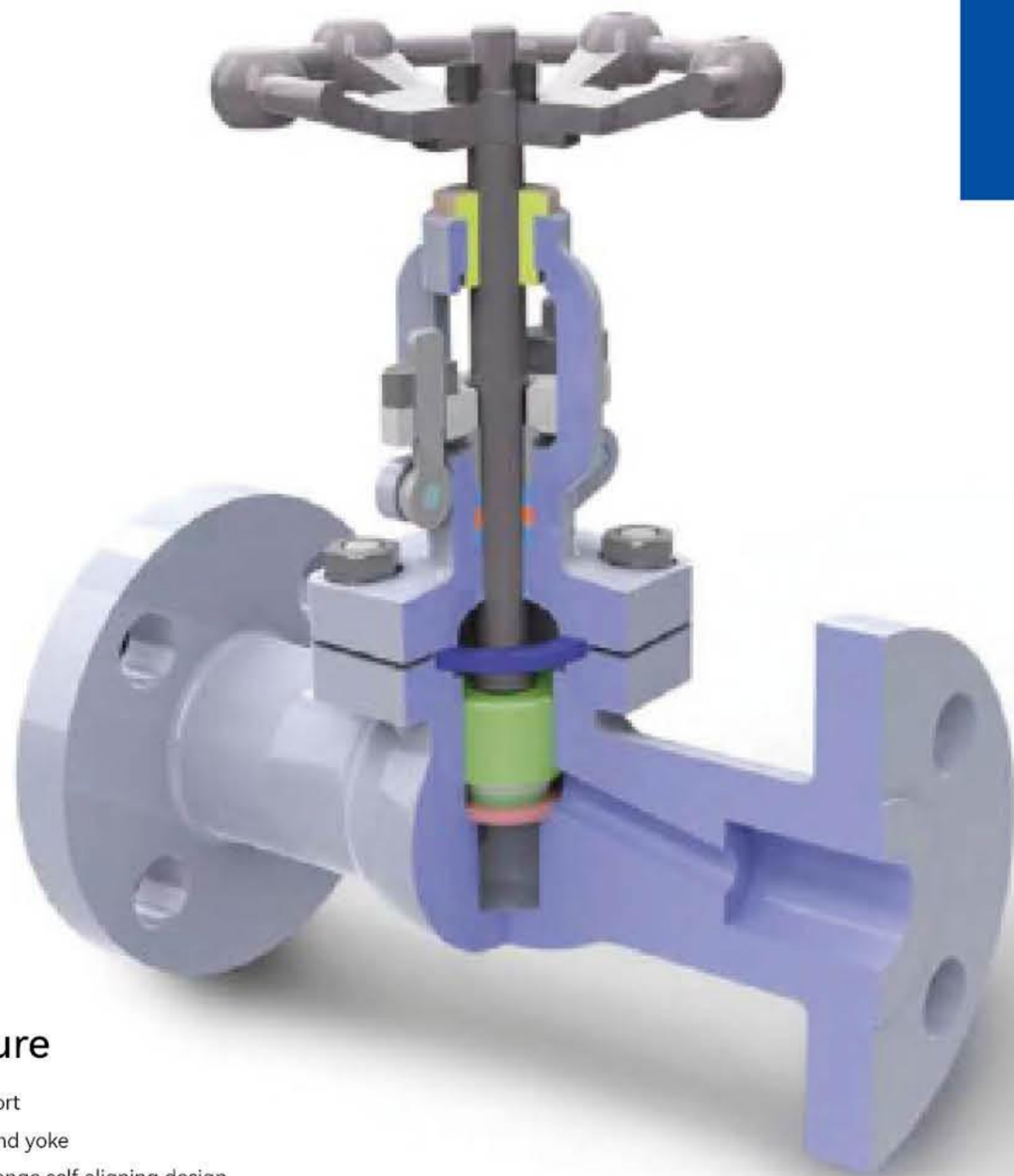
GLOBE VALVE

800LB 900LB 1500LB
 SW/NPT END



FORGED STEEL GLOBE VALVES

WEKE forged steel globe valve are manufactured in accordance with API602, ISO15761 and ASME B16.34 and tested to API598. And forged steel globe valve are available in three bonnet designs: bolted bonnet, welded bonnet and pressure seal bonnet.



Design Feature

- Full port or Reduced port
- OS&Y, Outside screw and yoke
- The gland and gland flange self aligning design
- Bolted bonnet/Welded Bonnet/Pressure seal bonnet
- Integral type back seat
- Socket welded (SW) ends to ASME B16.11
- Screwed ends (NPT) to ASME B1.20.1.
- Flanges (RF/RTJ) according to ASME B16.5.
- Integral flange or welded flange
- BW ends to ASME B16.25
- Cryogenic forged steel gate valve (optional)
- Low emission design, conform to ISO15848-1 Class B (optional)
- Y-Pattern globe valve

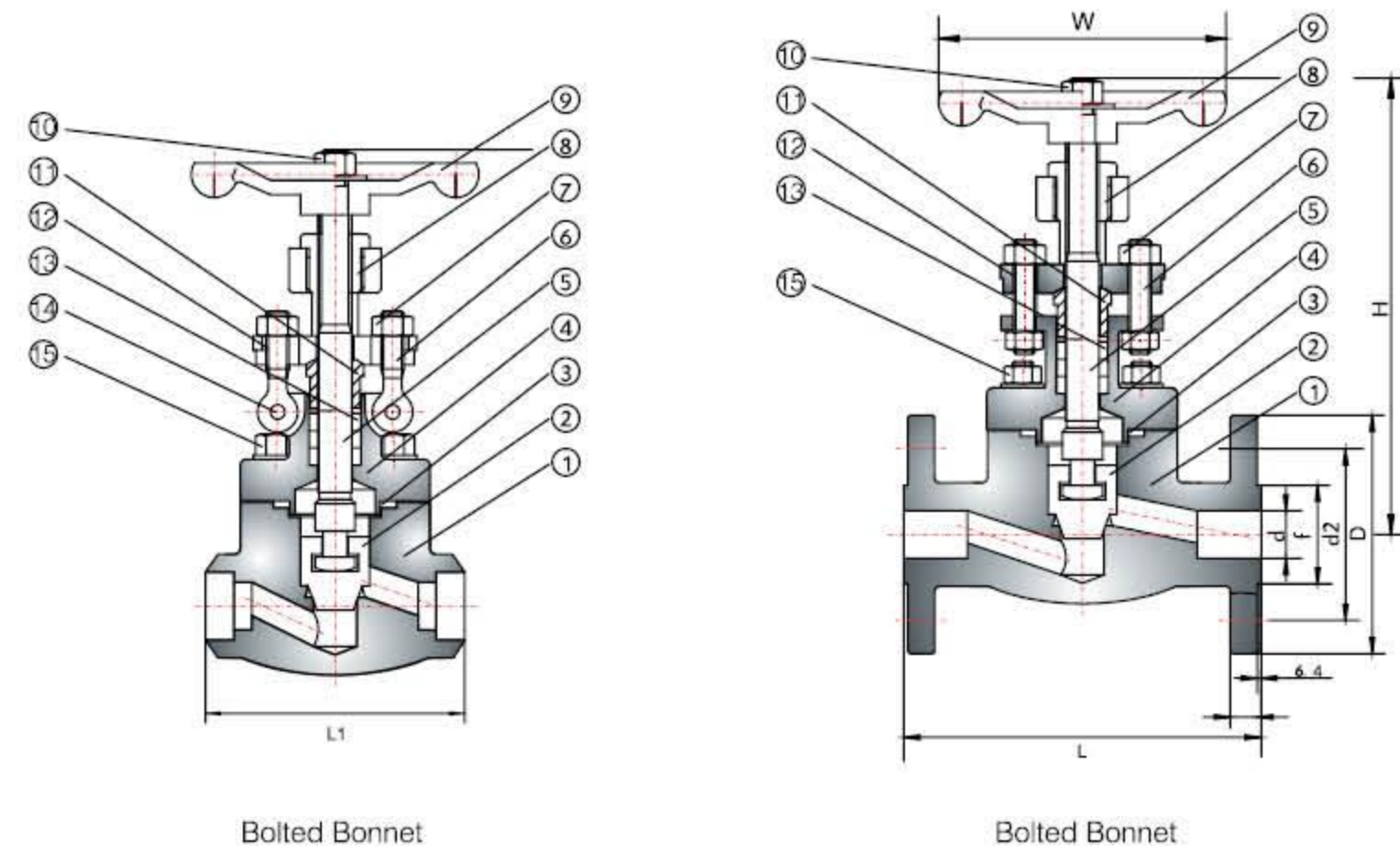
Material List

No .	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N+STL.6	A182 F22+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
2	Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
3	Stem	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Gasket	SPW.SS304+GT	SPW.SS304+GT	SPW.SS304+GT	SPW.SS304+GT
5	Bonnet	A105N	A182 F304	A182 F304(L)	A182 F316(L)
6	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Pin	A276 410	A276 304	A276 304	A276 316
8	Gland	A276 410	A276 304	A276 304	A276 316
9	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
10	Gland Flange	A105N	A182 F22	A182 F304(L)	A182 F316(L)
11	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
12	Yoke Nut	A276 410	A276 410	A276 410	A276 410
13	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
14	Nameplate	SS304	SS304	SS304	SS304
15	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
16	Stem Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite

Dimension and Weight

NPS		Conv .	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	/
			Full	/	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"
800LB	L	mm	76	76	92	106	120	148	172	220
	H(OPEN)	mm	165	165	170	185	220	220	280	320
	W	mm	100	100	100	125	160	160	180	200
	Weight	Bolted	kg	1.9	1.9	2.1	3.5	6.0	7.5	11.4
Welded		kg	1.7	1.7	2.1	3.5	6.0	7.5	11.4	14.6
900LB	L	mm	111	111	111	120	152	172	220	
	H(OPEN)	mm	185	185	185	220	220	270	280	
	W	mm	125	125	125	160	160	180	200	
	Weight	Bolted	kg	2.2	3.7	3.6	6.8	7.6	11.6	15.0
Welded		kg	2.0	3.4	3.3	6.0	5.6	10.3	14.2	
1500LB	L	mm	111	111	111	120	152	172	220	
	H(OPEN)	mm	171	207	207	240	258	330	355	
	W	mm	125	125	125	160	160	180	200	
	Weight	Bolted	kg	2.2	3.7	3.6	6.8	7.6	11.6	15.0
Welded		kg	2.0	3.4	3.3	6.0	5.6	10.3	14.2	

150LB ~ 1500LB
RF/RTJ/BW END



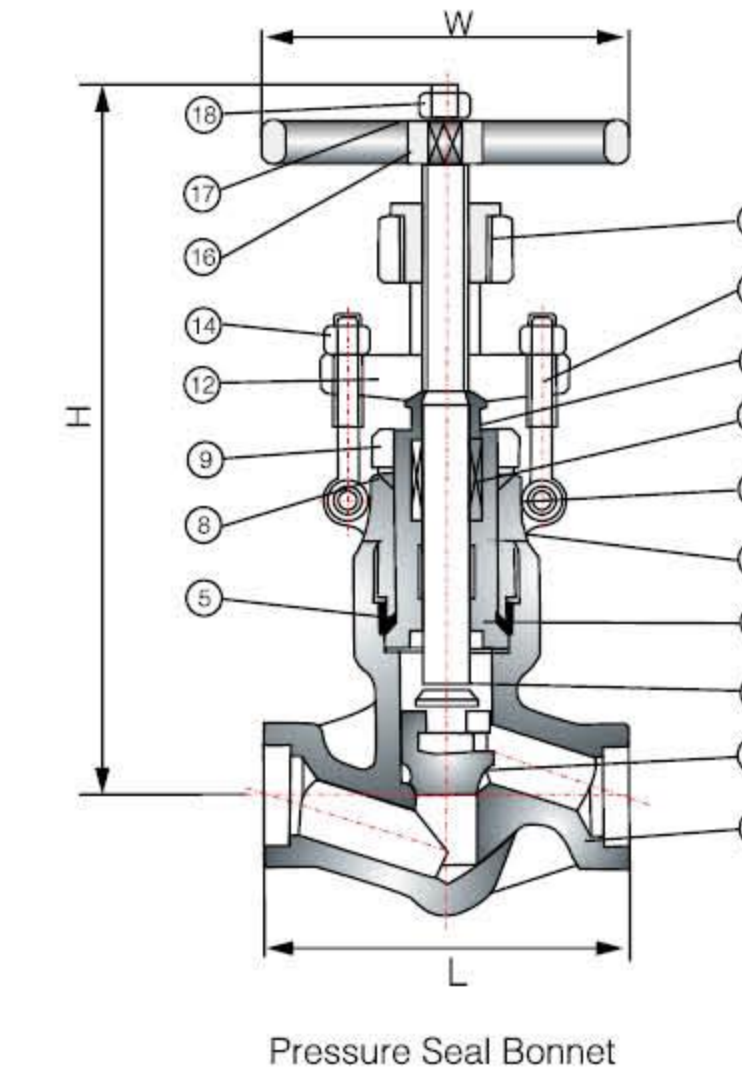
Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N+STL.6	A182 F22+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
2	Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
3	Stem	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Gasket	SPW.SS304+GT	SPW.SS304+GT	SPW.SS304+GT	SPW.SS304+GT
5	Bonnet	A105N	A182 F304	A182 F304(L)	A182 F316(L)
6	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Pin	A276 410	A276 304	A276 304	A276 316
8	Gland	A276 410	A276 304	A276 304	A276 316
9	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
10	Gland Flange	A105N	A182 F22	A182 F304(L)	A182 F316(L)
11	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
12	Yoke Nut	A276 410	A276 410	A276 410	A276 410
13	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
14	Nameplate	SS304	SS304	SS304	SS304
15	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
16	Stem Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite

Dimension and Weight

Pressure Class	NPS	End Type	mm	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"							
				L(RF)	108	117	127	140	165	203						
150LB	L1(BW)	mm	108	117	127	140	165	203	330							
										H(OPEN)	166	171	207	240	258	330
										W	100	100	125	160	160	180
										Weight	RF	kg	4.5	6.9	9.8	13.5
300LB	L1(BW)	mm	152	178	203	216	229	267	330							
										H(OPEN)	166	171	207	240	258	330
										W	100	100	125	160	160	180
										Weight	RF	kg	4.8	7.7	11.0	16.8
600LB	L1(BW)	mm	165	190	216	229	241	292	380							
										H(OPEN)	171	207	240	258	330	380
										W	100	100	125	160	160	180
										Weight	RF	kg	5.6	7.8	12.5	17.0
900LB	L1(BW)	mm	216	229	254	279	305	371	368							
										H(OPEN)	207	207	240	258	330	355
										W	125	125	160	160	180	200
										Weight	RF	kg	8.0	13.2	17.4	19.0
1500LB	L1(BW)	mm	216	229	254	279	305	368	355							
										H(OPEN)	207	207	240	258	330	355
										W	125	125	160	160	180	200
										Weight	RF	kg	8.0	13.2	17.4	19.0
900LB	L1(BW)	mm	216	229	254	279	305	371	368							
										H(OPEN)	207	207	240	258	330	355
										W	125	125	160	160	180	200
										Weight	RF	kg	8.0	13.2	17.4	19.0
1500LB	L1(BW)	mm	216	229	254	279	305	368	355							
										H(OPEN)	207	207	240	258	330	355
										W	125	125	160	160	180	200
										Weight	RF	kg	8.0	13.2	17.4	19.0

900LB~2500LB
SW/NPT END



Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N+STL.6	A182 F22+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
2	Disc	A182 F6a	A182 F304	A182 F304(L)	A182 316(L)
3	Stem	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Pressure Seat	A105N	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Ring	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
6	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)
7	Pin	A276 410	A276 304	A276 304	A276 316
8	PS. Washer	A105N	A182 F22	A182 F304(L)	A182 F316(L)
9	PS. Lock Nut	A105N	A182 F22	A182 F304(L)	A182 F316(L)
10	Stem Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite
11	Gland	A276 410	A276 304	A276 304	A276 316
12	Gland Flange	A105N	A182 F22	A182 F304(L)	A182 F316(L)
13	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
14	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276 410	A276 410	A276 410	A276 410
16	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
17	Nameplate	SS304	SS304	SS304	SS304
18	Gland Nut	A194 2H	A194 4	A194 8	A194 8M

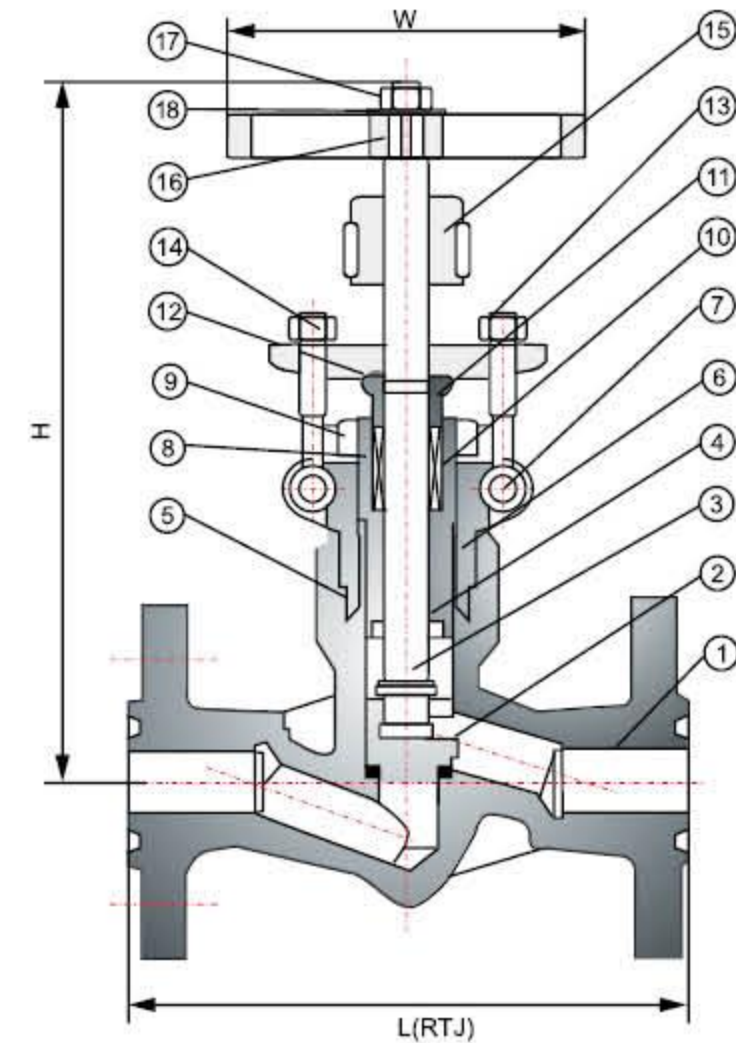
Dimension and Weight

Pressure Class	NPS	End Type	mm	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"								
				L	120	120	140	178	178	216							
900LB	H(OPEN)	mm	300	300	380	415	415	435	435								
										W	160	160	180	200	250	280	
										Weight	kg	11.2	10.5	10.1	21.0	19.6	40.4
										L	120	120	140	178	178	216	
1500LB	H(OPEN)	mm	300	300	380	415	415	435	435								
										W	160	160	180	200	250	280	
										Weight	kg	11.2	10.5	10.1	21.0	19.6	40.4
										L	140	140	186	232	232	279	
2500LB	H(OPEN)	mm	385	385	415	415	435	480	480								
										W	160	180	200	250	250	300	
										Weight	kg	12.3	11.6	10.8	28.0	26.4	43.8

PRESSURE SEAL GLOBE VALVE



900LB~2500LB
RTJ END



Material List

No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105N	Type LF3	Type F304(L)	Type F316(L)
1	Body	A105N+STL.6	A182 F22+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
2	Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
3	Stem	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Pressure Seat	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Ring	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
6	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)
7	Pin	A276 410	A276 304	A276 304	A276 316
8	PS. Washer	A105N	A182 F22	A182 F304(L)	A182 F316(L)
9	PS.Lock Nut	A105N	A182 F22	A182 F304(L)	A182 F316(L)
10	Stem Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite
11	Gland	A276 410	A276 304	A276 304	A276 316
12	Gland Flange	A105N	A182 F22	A182 F304(L)	A182 F316(L)
13	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
14	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276 410	A276 410	A276 410	A276 410
16	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
17	Nameplate	SS304	SS304	SS304	SS304
18	H.W. Nut	A194 2H	A194 4	A194 8	A194 8M

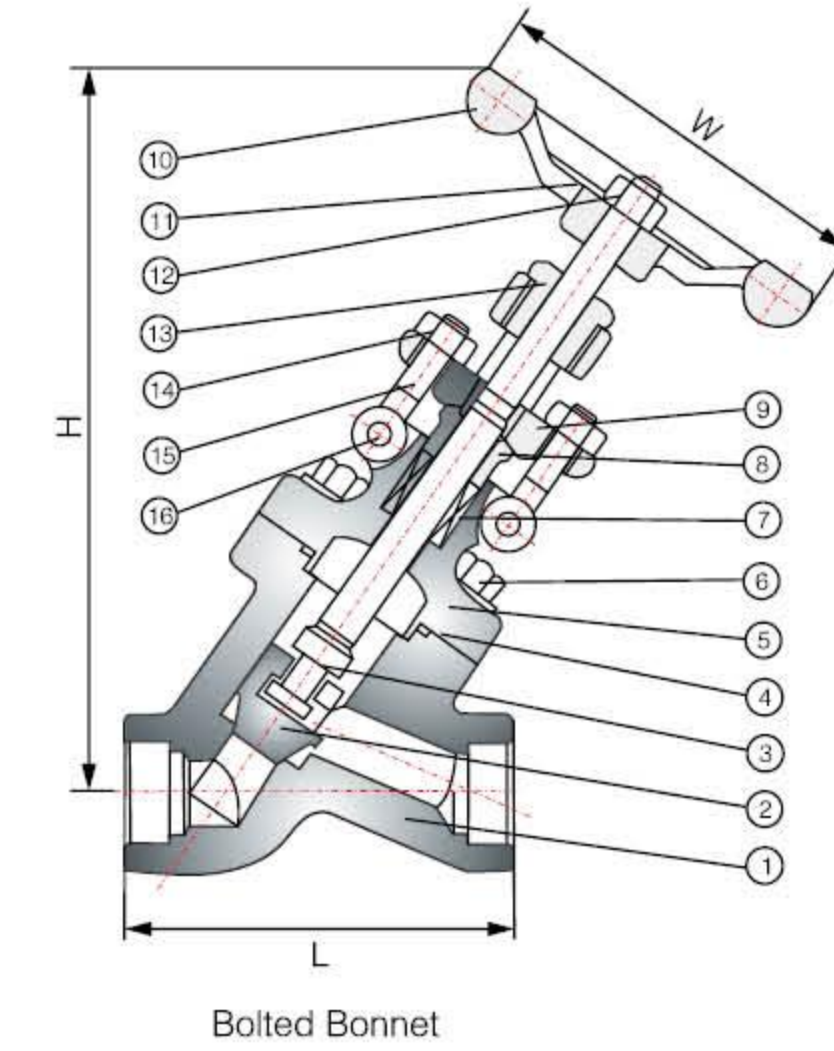
Dimension and Weight

NPS		mm	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
			900LB	L(RTJ)	mm	216	229	254
	H(OPEN)	mm	318	318	318	398	408	524
	W	mm	160	160	180	200	250	280
	Weight	kg	15.5	16.9	18.9	28.9	34.3	52.8
1500LB	L(RTJ)	mm	216	229	254	279	305	371
	H(OPEN)	mm	318	318	318	398	408	524
	W	mm	160	160	180	200	250	280
	Weight	kg	15.5	16.9	18.9	28.9	34.3	52.8
2500LB	L(RTJ)	mm	264	273	308	349	384	454
	H(OPEN)	mm	333	333	333	410	420	524
	W	mm	160	160	180	200	250	280
	Weight	kg	18.0	20.5	23.0	36.1	45.0	81.5

Y GLOBE VALVE



800LB
SW/NPT END



Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
		Type A105N	Type LF3	Type F304(L)	Type F316(L)
1	Body	A105N+STL.6	A182 F22+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
2	Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
3	Stem	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Gasket	SPW.SS304+Graphite	SPW.SS304+Graphite	SPW.SS304+Graphite	SPW.SS316+Graphite
5	Bonnet	A105N	A182 F304	A182 F304(L)	A182 F316(L)
6	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
8	Gland	A276 410	A276 304	A276 304	A276 316
9	Gland Flange	A105N	A182 F22	A182 F304(L)	A182 F316(L)
10	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
11	Nameplate	SS304	SS304	SS304	SS304
12	H.W. Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 410	A276 410	A276 410	A276 410
14	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
15	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
16	Pin	A276 410	A276 304	A276 304	A276 316

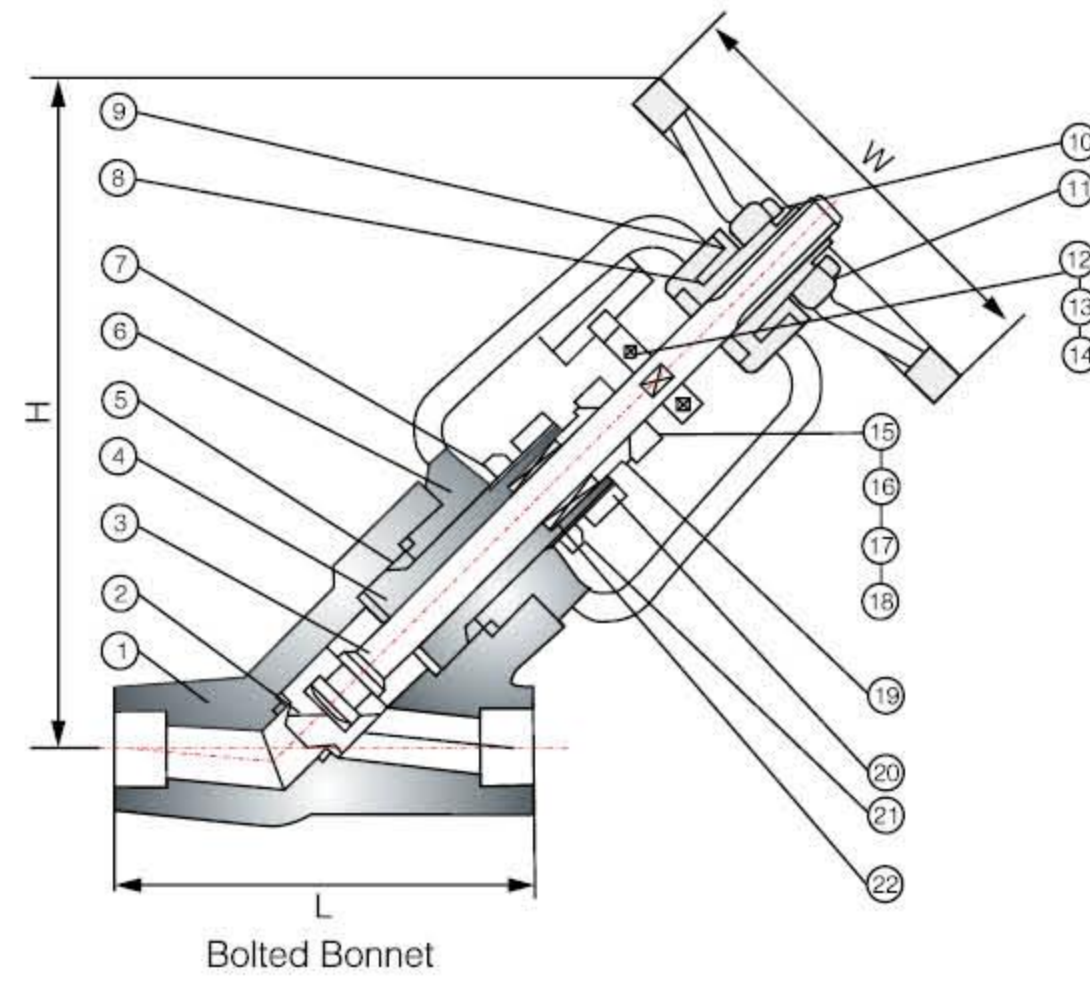
Dimension and Weight

NPS		mm	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
			800LB	L	mm	98	98	120
	H(OPEN)	mm	215	215	245	245	285	320
	W	mm	100	100	190	190	180	200
	Weight	kg	5	6.3	7.6	9.8	13.8	14.0

Y GLOBE VALVE



900LB~2500LB
SW/NPT END



Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N+STL.6	A182 F22+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
2	Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
3	Stem	A182 F6a	A182 F6a	A182 F304(L)	A182 F316(L)
4	Pressure Seat	A105N	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Ring	A182 F6a	A182 F6a	A182 F304(L)	A182 F316(L)
6	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)
7	PS. Washer	A105N	A182 F22	A182 F304(L)	A182 F316(L)
8	Yoke Nut	A276 410	A276 410	A276 410	A276 410
9	Retaining Nut	A105N+STL.6	A182 F22+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
10	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
11	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
12	Wafer Board	A105N	A182 F22	A182 F304(L)	A182 F316(L)
13	Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
14	Nut	N194 2H	A194 4	A194 8	A194 8M
15	Gland Flange	A105N	A182 F22	A182 F304(L)	A182 F316(L)
16	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
17	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
18	Pin	A276 410	A276 304	A276 304	A276 316
19	Gland	A276 410	A276 304	A276 304	A276 316
20	Bearing Ear	A105N	A182 F22	A182 F304(L)	A182 F316(L)
21	PS. Lock Nut	A105N	A182 F22	A182 F304(L)	A182 F316(L)
22	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE

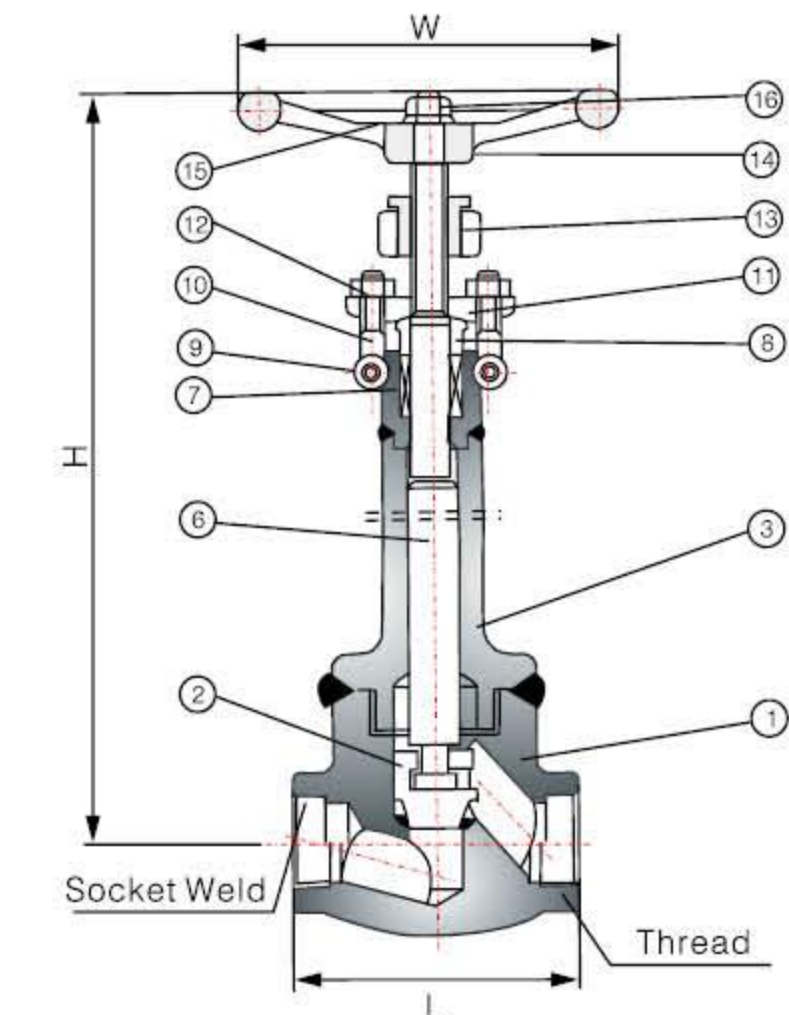
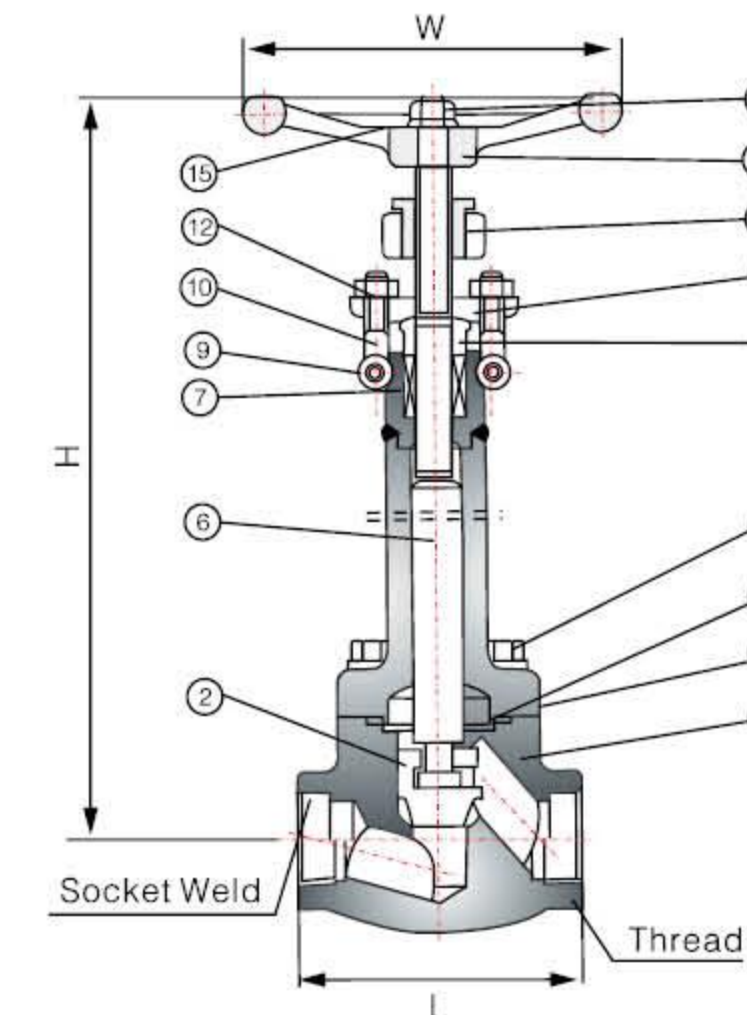
Dimension and Weight

NPS		mm	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
			L	H(OPEN)	W	Weight	L	H(OPEN)
900LB	L	mm	120	120	120	140	170	216
	H(OPEN)	mm	333	333	333	406	406	524
	W	mm	125	125	160	160	180	200
	Weight	kg	11.2	10.5	10.1	21.0	19.6	40.4
1500LB	L	mm	120	120	120	140	170	216
	H(OPEN)	mm	333	333	333	406	406	524
	W	mm	125	125	160	160	180	200
	Weight	kg	11.2	10.5	10.1	21.0	19.6	40.4
2500LB	L	mm	186	186	186	232	232	279
	H(OPEN)	mm	333	333	333	406	406	524
	W	mm	125	125	160	160	180	200
	Weight	kg	12.3	11.6	10.8	28.0	26.4	43.8

CRYOGENIC GLOBE VALVE



800LB
SW/NPT END



Material List

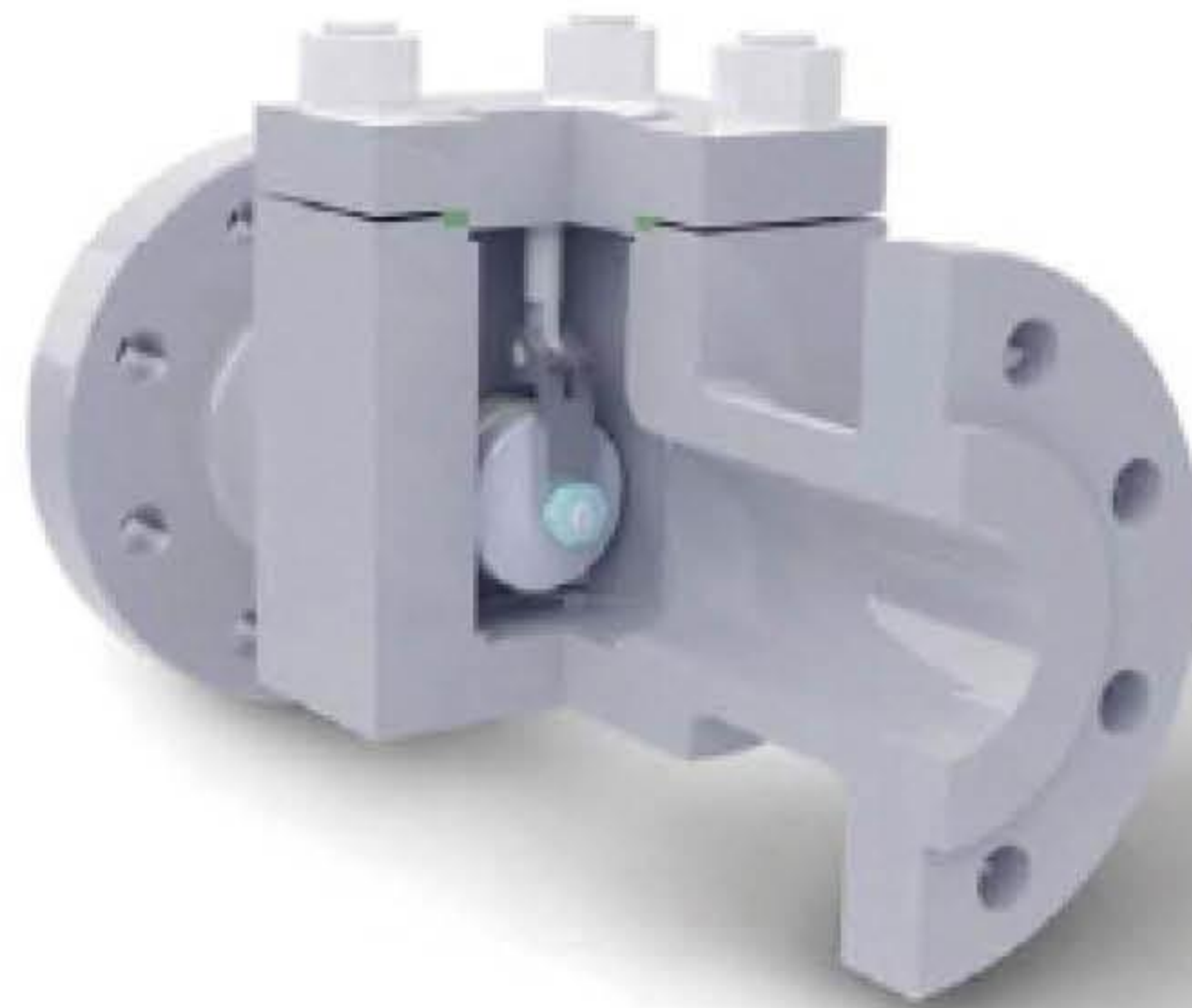
No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A350 LF2+STL.6	A350 LF3+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
2	Disc	A182 F6a	A182 F6a	A182 F304(L)+STL	A182 F316(L)+STL
3	Bonnet	A350 LF2	A350 LF3	A182 F304(L)	A182 F316(L)
4	Gasket	SPW.SS304+Graphite	SPW.SS304+Graphite	SPW.SS304(L)+Graphite	SPW.SS316(L)+Graphite
5	Bolt	A320 L7	A320 L7	A193 B8	A193 B8M
6	Stem	A182 F6a	A182 F6a	A182 F304(L)	A182 F316(L)
7	Stem Packing	316 Flexible Graphite	316 Flexible Graphite	PTFE	PTFE
8	Gland	A276 410	A276 410	A276 304	A276 316
9	Pin	A276 410	A276 410	A276 304	A276 316
10	Gland Eyebolt	A320 L7	A320 L7	A193 B8	A193 B8M
11	Gland Flange	A350 LF2	A350 LF3	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 4	A194 4	A194 8	A194 8M
13	Yoke Nut	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2
14	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
15	Nameplate	SS304	SS304	SS304	SS304
16	H.W.Lock Nut	A194 2H	A194 2H	A194 8	A194 8M

Dimension and Weight

NPS		mm	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
			Conv. Full	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"
800LB	L	mm	76	76	92	106	120	148	172
	H(OPEN)	mm	165	165	170	185	220	220	280
	W	mm	125	125	125	160	160	180	200
	Weight	Bolted	kg	5.2	7.2	10.9	13.5	15.2	19.8
Welded		kg	4.8	6.5	9.5	11.5	13.1	17.5	26.8

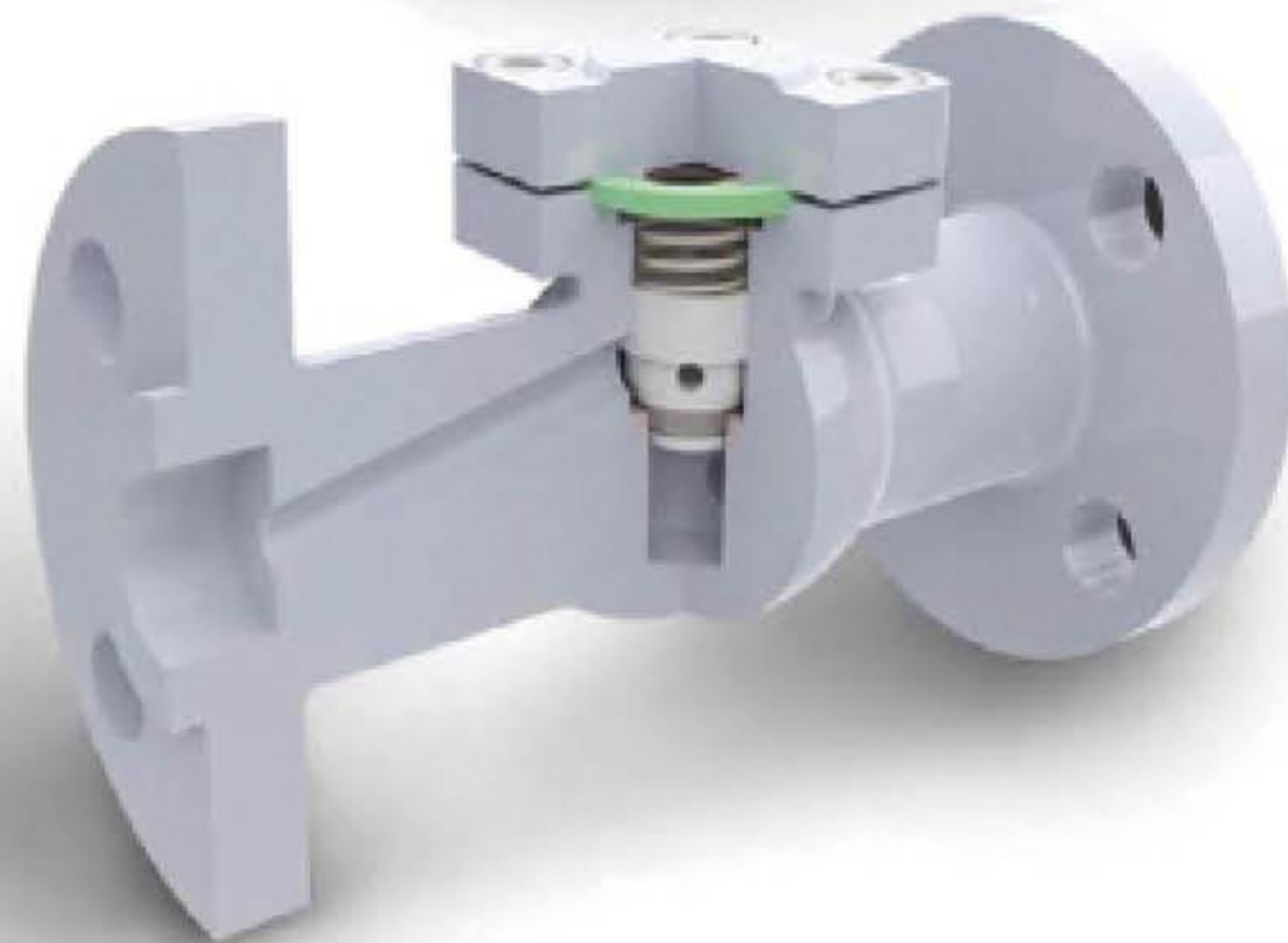
PISTON CHECK VALVE

800LB 900LB 1500LB
 SW/NPT END



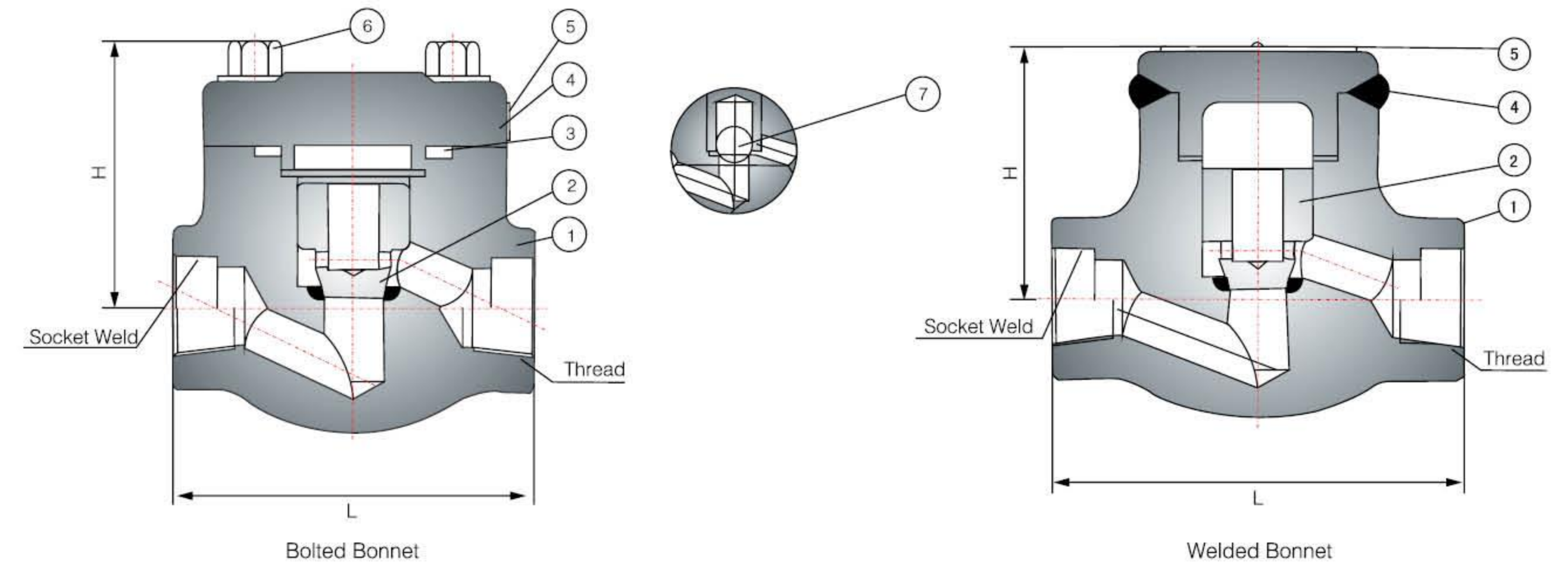
FORGED STEEL CHECK VALVES

WEKE forged steel check valve are manufactured in accordance with API602, ISO15761 and ASME B16.34 and tested to API598. And forged steel check valve are available in three bonnet designs: bolted bonnet, welded bonnet and pressure seal bonnet.



Design Feature

- Full port or Reduced port
- Bolted cover/Welded cover/Pressure seal cover
- Socket welded (SW) ends to ASME B16.11
- Screwed ends (NPT) to ASME B1.20.1
- Flanges (RF/RTJ) according to ASME B16.5
- Integral flange or welded flange
- BW ends to ASME B16.25
- Cryogenic forged steel check valve (optional)
- The spherical piston check valve (optional)
- Y-Pattern piston check valve



Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N+STL.6/cr13	A182 F22	A182 F304(L)	A182 F316(L)
2	Piston Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
3	Gasket	SPW SS304+Graphite	SPW SS304+Graphite	SPW SS304(L)+Graphite	SPW SS316(L)+Graphite
4	Bonnet	A105N	A182 F22	A182 F304(L)	A276 F316(L)
5	Nameplate	SS304	SS304	SS304	SS304
6	Bolt	A193 B7	F193 B16	A193 B8(M)	A193 B8(M)
7	Ball	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)

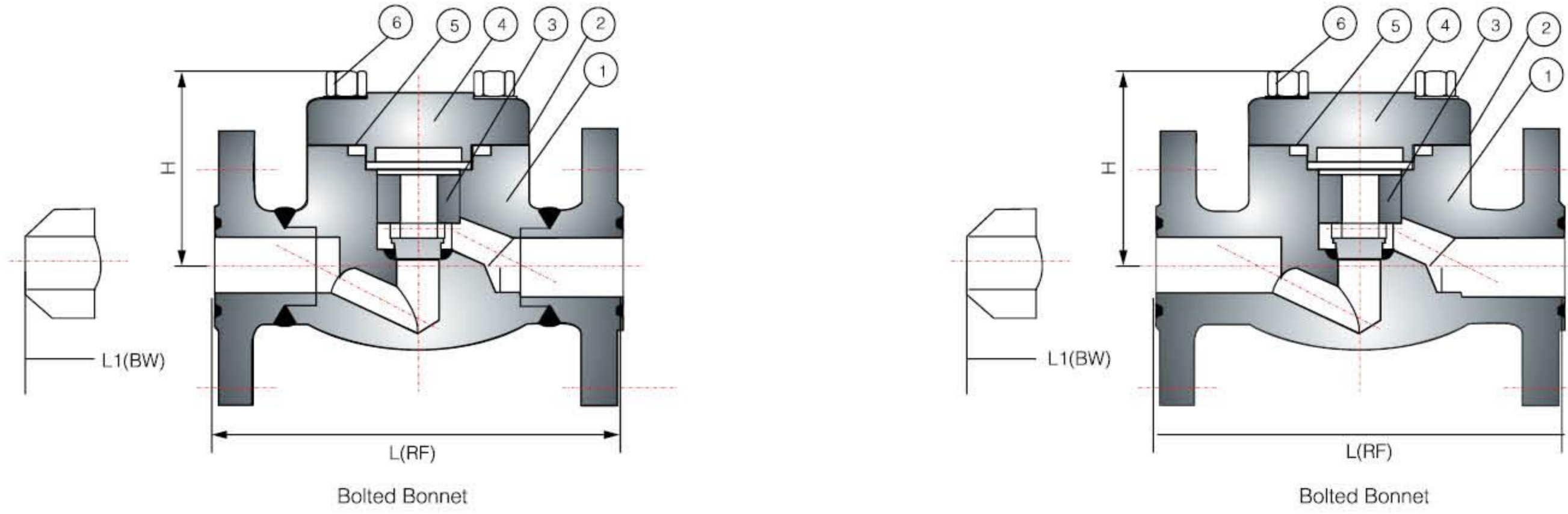
Dimension and Weight

NPS		Conv.	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	/	
			/	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
800LB	L	mm	76	76	92	106	120	148	172	220	
	H	mm	50	50	60	70	80	85	100	120	
	Weight	Bolted	kg	1.4	1.2	1.5	3.1	3.9	5.6	8.9	12.5
		Welded	kg	1.1	1.0	1.2	2.9	3.3	4.9	8.1	10.9
900LB	L	mm	111	111	111	120	152	172	220		
	H	mm	75	75	75	100	110	120	140		
	Weight	Bolted	kg	1.6	3.4	3.3	5.5	6.0	9.2	12.9	
		Welded	kg	1.3	3.2	3.1	4.8	5.4	8.5	11.2	
1500LB	L	mm	111	111	111	120	152	172	220		
	H	mm	75	75	75	100	110	120	140		
	Weight	Bolted	kg	1.6	3.4	3.3	5.5	6.0	9.2	12.9	
		Welded	kg	1.3	3.2	3.1	4.8	5.4	8.5	11.2	

PISTON CHECK VALVE



150LB~1500LB
RF/RTJ /BW END



Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N+STL.6	A182 F22+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
2	Nameplate	SS304	SS304	SS304	SS304
3	Piston Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)
5	Gasket	SPW. SS304+Graphite	SPW. SS304+Graphite	SPW. SS304(L)+Graphite	SPW. SS316(L)+Graphite
6	Bolt	A193 B7	A193 B16	A193 B8	A193 B8M

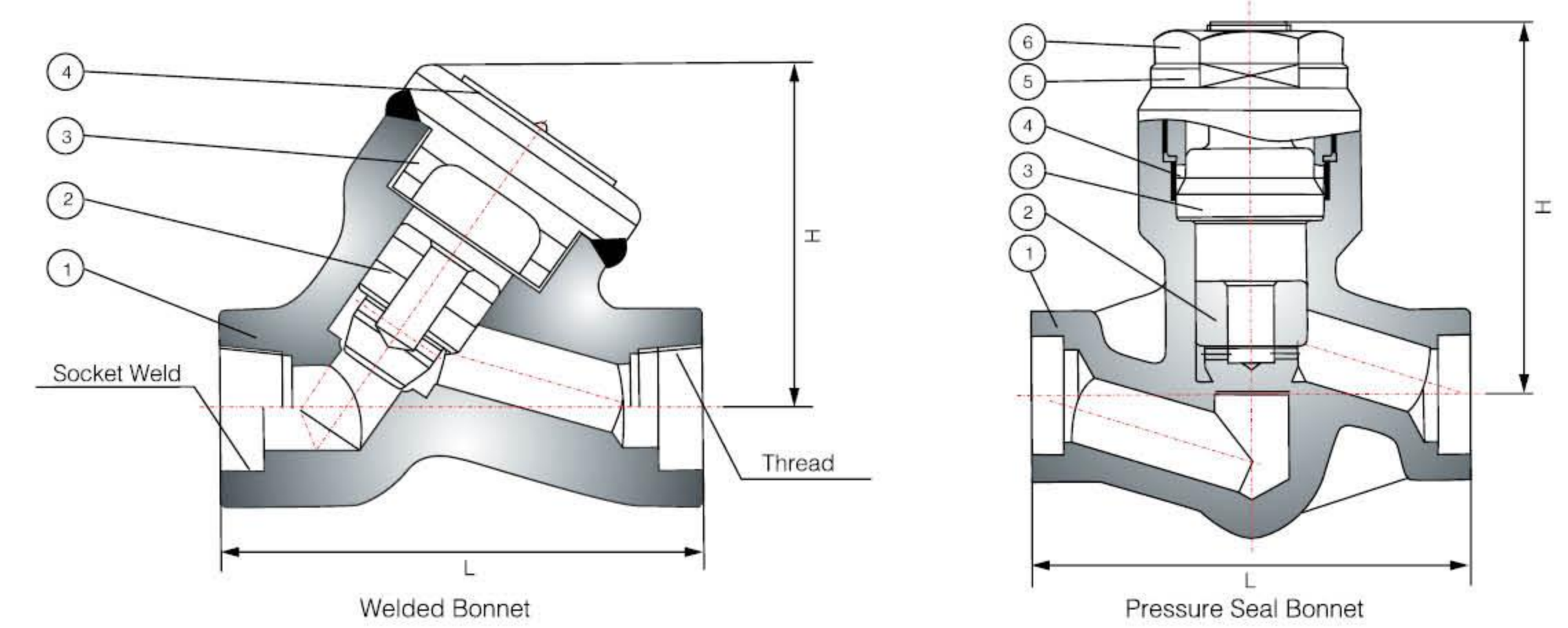
Dimension and Weight

NPS			NPS							
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"		
150LB	L	RF	mm	108	117	127	140	165	203	
		BW	mm	108	117	127	140	165	203	
	H		mm	61	61	79	95	103	118	
		Weight		kg	2.56	3.37	4.37	8.17	8.94	12.64
	300LB	L	RF	mm	152	178	203	216	229	267
			BW	mm	152	178	216	229	241	267
H			mm	61	61	79	95	103	118	
		Weight		kg	2.73	3.65	4.74	8.77	9.60	13.70
600LB		L	RF	mm	165	190	216	229	241	292
			BW	mm	165	190	216	229	241	292
	H		mm	61	61	79	95	103	118	
		Weight		kg	3.00	4.00	5.83	9.47	10.10	15.60
	900LB	L	RF	mm	216	229	254	279	305	371
			BW	mm	216	229	254	279	305	368
H			mm	79	79	95	104	120	139	
		Weight		kg	8.5	10.5	15.7	20.8	27.2	33.0
1500LB		L	RF	mm	216	229	254	279	305	371
			BW	mm	216	229	254	279	305	368
	H		mm	79	79	95	104	120	139	
		Weight		kg	8.5	10.5	15.7	20.8	27.2	33.0

PISTON CHECK VALVE



800LB 900LB 1500LB 2500LB
SW/NPT END



Y PATTERN Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N+STL.6	A182 F22+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
2	Piston Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
3	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)
4	Nameplate	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel

Dimension and Weight

NPS		Conv. Full	NPS						
			3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
1500LB	L	mm	98	98	98	120	120	140	170
	H	mm	85	85	95	105	115	120	135
	Weight	kg	3.1	3.0	3.7	6.5	8.5	8.0	10.9

PRESSURE SEAL Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N+STL.6	A182 F22+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
2	Piston Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
3	Sealing Seat	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Pressure Ring	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
5	Retainion Nut	A105N	A182 F22	A182 F304(L)	A182 F316(L)
6	P.S.Lock Nut	A105N	A182 F22	A182 F304(L)	A182 F316(L)

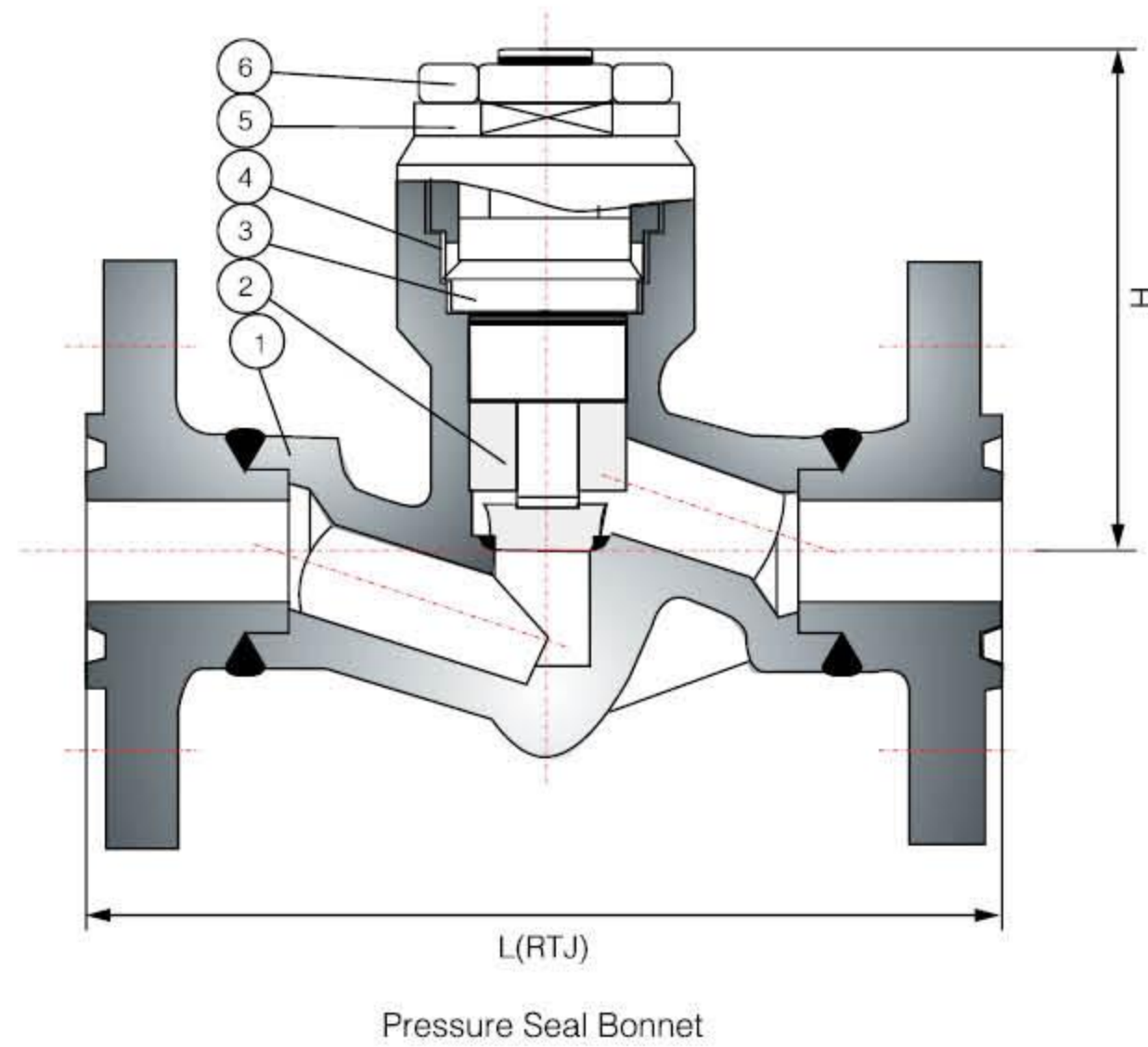
Dimension and Weight

NPS			NPS					
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
900LB	L	mm	120	120	140	178	178	216
		H	mm	135	135	150	170	170
	Weight	kg	7.5	7.0	6.8	18.5	18.1	20.3
1500LB	L	mm	120	120	140	178	178	216
		H	mm	135	135	150	170	170
	Weight	kg	7.5	7.0	6.8	18.5	18.1	20.3
2500LB	L	mm	140	140	186	232	232	279
		H	mm	150	150	170	180	190
	Weight	kg	9.0	7.6	8.4	19.5	20.1	21.8

PRESSURE SEAL PISTON CHECK VALVE



900LB~2500LB
RF/RTJ END



Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N+STL.6	A182 F22+STL.6	A182 F304(L)+STL.6	A182 F316(L)+STL.6
2	Piston Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316
3	Pressure Seat	A182 F6a	A182 F304	A182 F304(L)	A182 F316
4	Pressure Ring	A182 F6a	A182 F304	A182 F304(L)	A182 F316
5	Retaining Nut	A105N	A182 F22	A182 F304(L)	A182 F316(L)
6	PS.Lock Nut	A105N	A182 F22	A182 F304(L)	A182 F316(L)

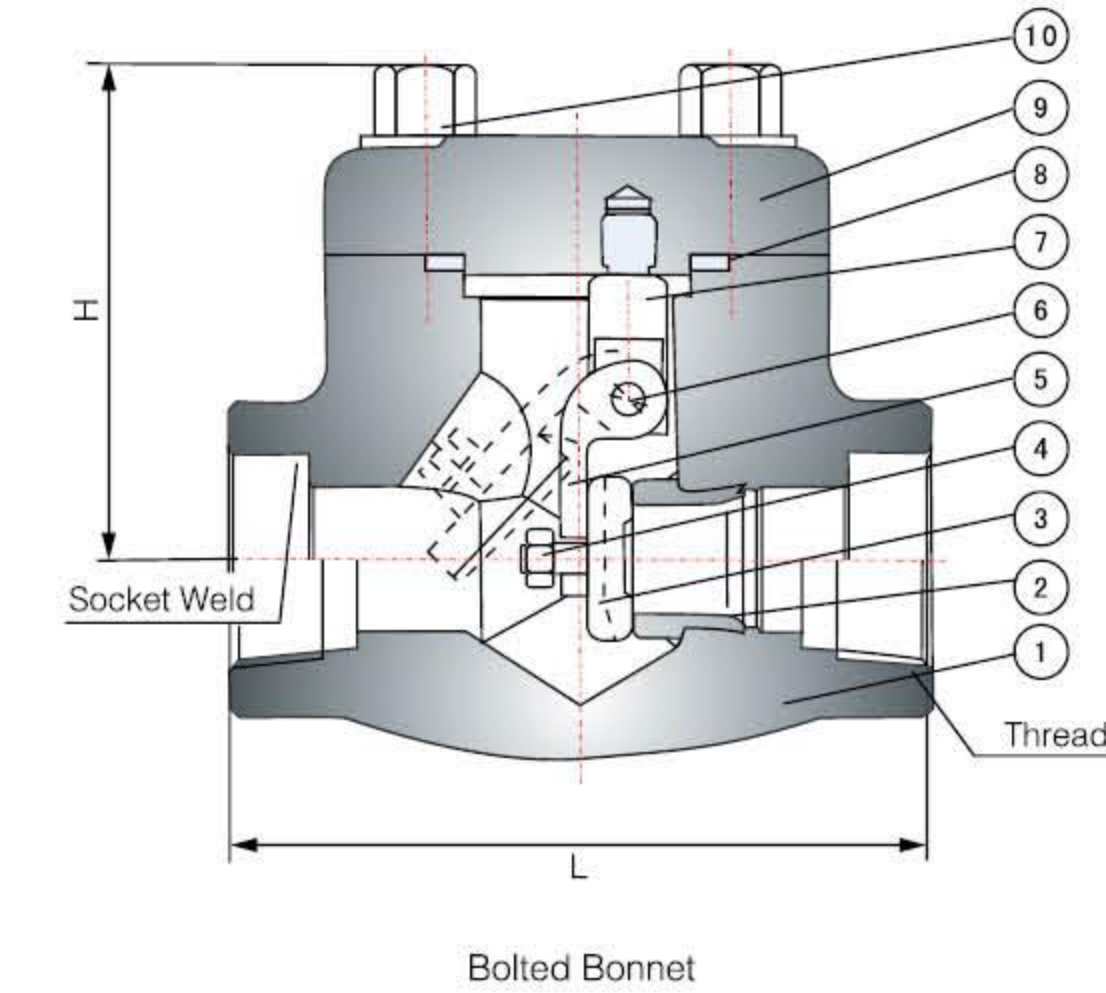
Dimension and Weight

	NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	L(RTJ)	mm	216	229	254	279	305	371
900LB	H	mm	117	117	117	152	152	195
	Weight	kg	10.5	11.9	13.9	19.9	26.9	32.5
	L(RTJ)	mm	216	229	254	279	305	371
1500LB	H	mm	117	117	117	152	152	195
	Weight	kg	10.5	11.9	13.9	19.9	26.9	32.5
	L(RTJ)	mm	264	273	308	349	384	454
2500LB	H	mm	117	117	117	152	152	195
	Weight	kg	12.6	14.9	16.5	24.8	30.0	35.0

SWING CHECK VALVE



800LB 900LB 1500LB
SW/NPT END



Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Body	A105N	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat	A182 F6a+STL.6	A182 F304	A182 F304(L)	A182 F316(L)
3	Swing Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Nut	A194 2H	A194 4	A194 8	A194 8M
5	Hinge	A182 F6a	A182 F304	A182 F304 L	A182 F306(L)
6	Pin	A276 410	A276 304	A276 304	A276 316
7	Ponlevis	A182 F6a	A182 F304	A182 F304L	A182 F316(L)
8	Gasket	SPW. SS304+Graphite	SPW. SS304+Graphite	SPW. SS304(L)+Graphite	SPW. SS316(L)+Graphite
9	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)
10	Bolt	A193 B7	A193 B16	A193 B8M	A193 B8M

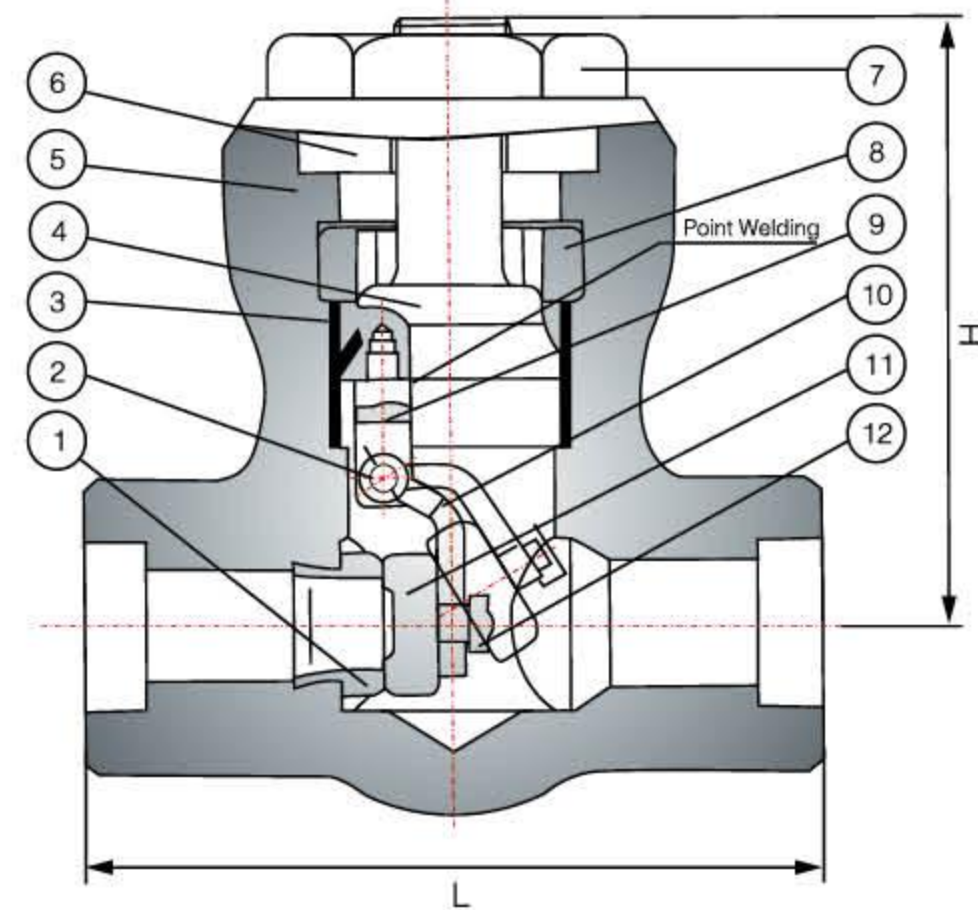
Dimension and Weight

	NPS		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	L	mm	79	79	92	106	120	114	144
900LB	H	mm	60	60	65	75	90	95	115
	Weight	kg	1.1	1.0	1.9	3.9	4.5	6.7	9.6
	L	mm	111	111	111	120	120	140	170
1500LB	H	mm	75	75	80	90	110	120	135
	Weight	kg	3.1	3.0	3.6	4.3	6.1	8.8	12.6
	L	mm	111	111	111	120	120	140	170
2500LB	H	mm	75	75	80	90	110	120	135
	Weight	kg	3.1	3.0	3.6	4.3	6.1	8.8	12.6

PRESSURE SEAL SWING CHECK VALVE



900LB~2500LB
SW/NPT END



Pressure Seal Bonnet

Material List

No.	Part Name	Cast Steel	Alloy Steel	Stainless Steel	
1	Seat	A182 F6a+STL.6	A182 F304	A276 304(L)	A276 316(L)
2	Pin	A276 410	A276 304	A276 304	A276 316
3	Pressure Ring	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
4	Pressure Seat	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
5	Body	A105N	A182 F22	A182 F304(L)	A182 F316(L)
6	Bonnet	A105N	A182 F22	A182 F304	A182 F316(L)
7	Bolt	A105N	A182 F22	A182 F304(L)	A182 F316(L)
8	Quarter Ring	A182 F6a	A182 F304	A182 F304	A182 F316
9	Pin-levis	A182 F6a	A182 F304	A182 F304L	A182 F316(L)
10	Hinge	A182 F6a	A182 F304	A182 F304 L	A182 F306(L)
11	Piston Disc	A182 F6a	A182 F304	A182 F304(L)	A182 F316(L)
12	Nut	A194 2H	A194 4	A194 8	A194 8M

Dimension and Weight

	NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	L	mm						
900LB	L	mm	120	120	140	178	178	216
	H	mm	135	135	150	170	170	190
	Weight	kg	8.0	7.8	7.7	19.8	19.2	21.3
1500LB	L	mm	120	120	140	178	178	216
	H	mm	135	135	150	170	170	190
	Weight	kg	8.0	7.8	7.7	19.8	19.2	21.3
2500LB	L	mm	140	140	186	232	232	279
	H	mm	150	150	170	180	190	215
	Weight	kg	10.0	9.6	9.4	21.5	21.1	22.8



FORGED STEEL BELLOWS VALVES

- WEKE Forged steel bellows seal valve, designed as double sealing (bellows seal + gland packing seal) that ensure the valves zero leakage.
- More than 10,000 cycles life.



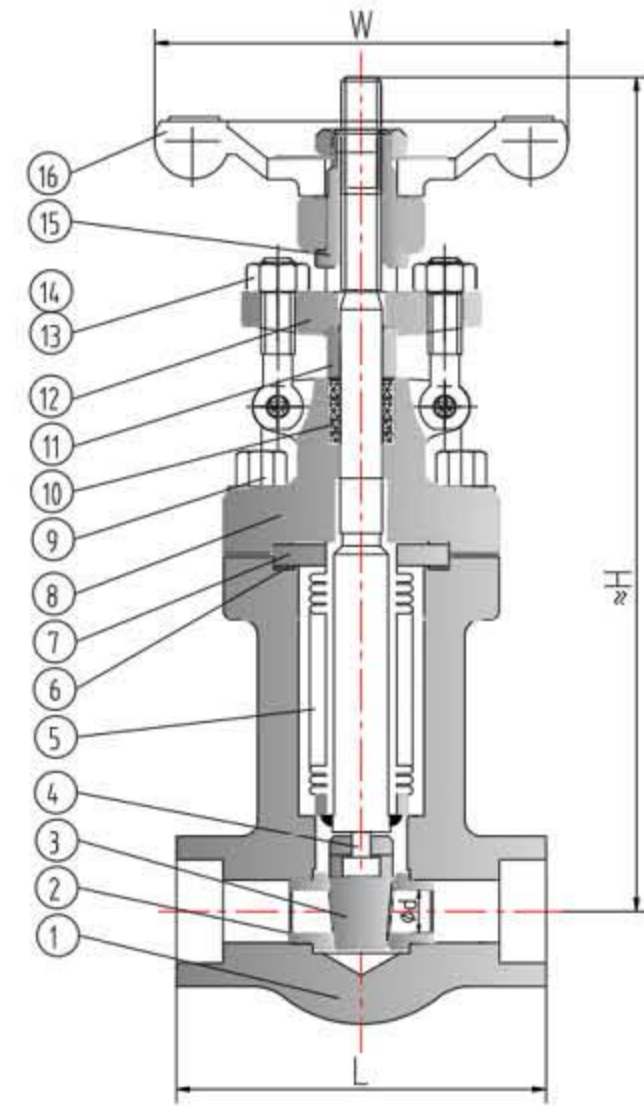
Design Feature

- Double seal (Bellows seal + gland packing)
- Full port or Reduced port
- OS&Y, Outside screw and yoke
- The gland and gland flange self aligning design
- Bolted bonnet/Welded Bonnet
- Integral type back seat
- Socket welded (SW) ends to ASME B16.11
- Screwed ends (NPT) to ASME B1.20.1.
- BW ends to ASME B16.25
- Flanges (RF/RTJ) according to ASME B16.5.
- Integral flange or welded flange
- Y-Pattern globe valve bellows sealed

BELLOWS GATE VALVE



800LB 1500LB
SW/BW/NPT END



Material List

No.	Part Name	Cast Steel		Stainless Steel	
		A105	A182 F304(L)	A182 F304(L)	A182 F316(L)
1	Body	A105	A182 F304(L)	A182 F304(L)	A182 F316(L)
2	Seat	A182 F6a	A182 F304(L)	A182 F304(L)	A182 F316(L)
3	Disc	A182 F6a	A182 F304(L)	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6a	A182 F304(L)	A182 F304(L)	A182 F316(L)
5	Bellows	SS304/SS316/SS321/SS316Ti	SS304/SS316/SS321/SS316Ti	SS316/SS321/SS316Ti	SS316/SS321/SS316Ti
6	Gasket	SPW.SS304+Graphite	Graphite+SS	Graphite+SS	Graphite+SS
7	Bellow cover	SS304	SS304	SS304	SS316
8	Bonnet	A105	A182 F304(L)	A182 F304(L)	A182 F316(L)
9	Bolt	A193 B7	A193 B8	A193 B8	A193 B8M
10	Packing	Graphite+SS	Graphite+SS	Graphite+SS	Graphite+SS
11	Gland	A276 410	A182 F304(L)	A182 F304(L)	A182 F316(L)
12	Gland flange	A105	A182 F304	A182 F304	A182 F316
13	Bolt	A193 B7	A193 B8	A193 B8	A193 B8M
14	Nut	A194 2H	A194 8	A194 8	A194 8M
15	Stem nut	A276 410	A276 410	A276 410	A276 410
16	Hand wheel	A197	A197	A197	A197

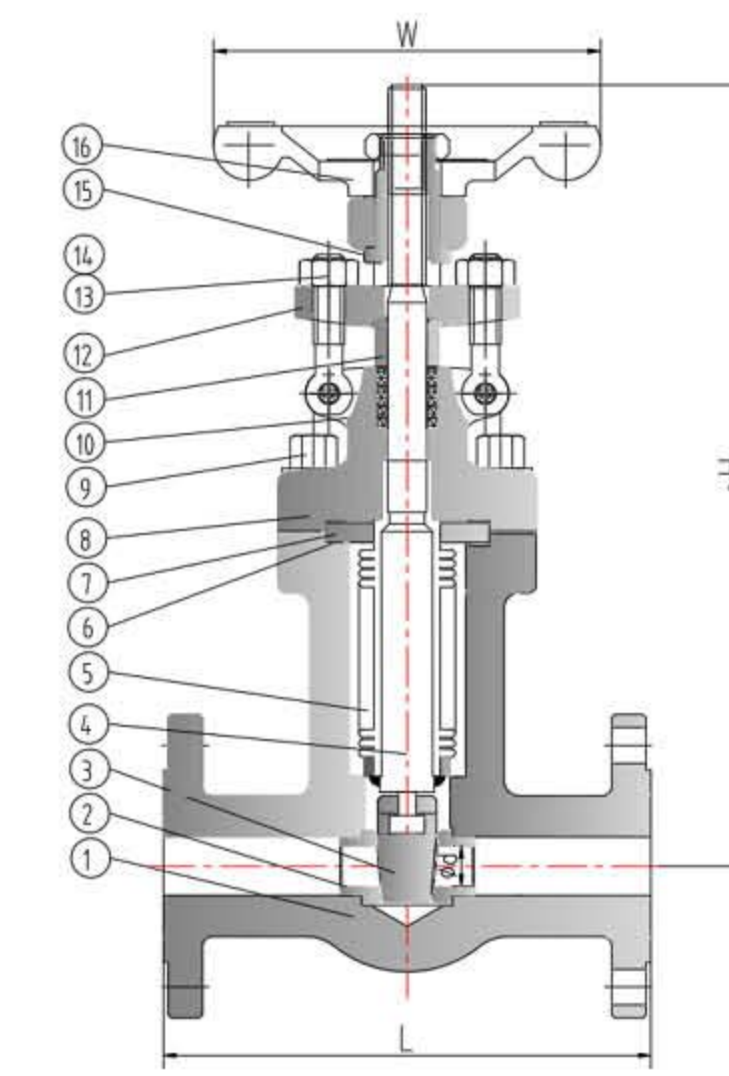
Dimension and Weight

NPS	Conv.	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		2"	
		Full	/	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 1/4"	1 1/2"	2"	2"	2"	
800LB	L	mm	79	79	92	111	120	120	140	178					
	H(OPEN)	mm	237	237	239	270	298	340	395	470					
	W	mm	100	100	100	125	160	160	180	200					
	d	mm	7.5	10.5	13.5	18	24	29	36.5	45					
	Weight	Bolted	kg	2.7	2.7	3.1	5.1	7.6	9.2	12	-				
		Welded	kg	-	3.1	3.1	5.1	7.6	9.2	12	20				
1500LB	L	mm	79	111	111	120	120	140	178	180					
	H(OPEN)	mm	294	330	380	380	400	450	520	650					
	W	mm	100	125	125	160	160	180	200	220					
	d	mm	7.5	10.5	13.5	18	24	29	36.5	45					
	Weight	Bolted	kg	5.1	5.1	7.6	9.2	12	16	27	-				
		Welded	kg	-	5.1	7.6	9.2	12	16	27	35				

BELLOWS GATE VALVE



150LB 300LB 600LB
RF END



Material List

No.	Part Name	Cast Steel		Stainless Steel	
		A105	A182 F6a	A182 F304(L)	A182 F316(L)
1	Body	A105	A182 F6a	A182 F304(L)	A182 F316(L)
2	Seat	A182 F6a	A182 F304(L)	A182 F304(L)	A182 F316(L)
3	Disc	A182 F6a	A182 F304(L)	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6a	A182 F304(L)	A182 F304(L)	A182 F316(L)
5	Bellows	SS304/SS316/SS321/SS316Ti	SS304/SS316/SS321/SS316Ti	SS304/SS316/SS321/SS316Ti	SS316/SS321/SS316Ti
6	Gasket	SPW.SS304+Graphite	Graphite+SS	Graphite+SS	Graphite+SS
7	Bellow cover	SS304	SS304	SS304	SS316
8	Bonnet	A105	A182 F304(L)	A182 F304(L)	A182 F316(L)
9	Bolt	A193 B7	A193 B8	A193 B8	A193 B8M
10	Packing	Graphite+SS	Graphite+SS	Graphite+SS	Graphite+SS
11	Gland	A276 410	A182 F304(L)	A182 F304(L)	A182 F316(L)
12	Gland flange	A105	A182 F304	A182 F304	A182 F316
13	Bolt	A193 B7	A193 B8	A193 B8	A193 B8M
14	Nut	A194 2H	A194 8	A194 8	A194 8M
15	Stem nut	A276 410	A276 410	A276 410	A276 410
16	Hand wheel	A197	A197	A197	A197

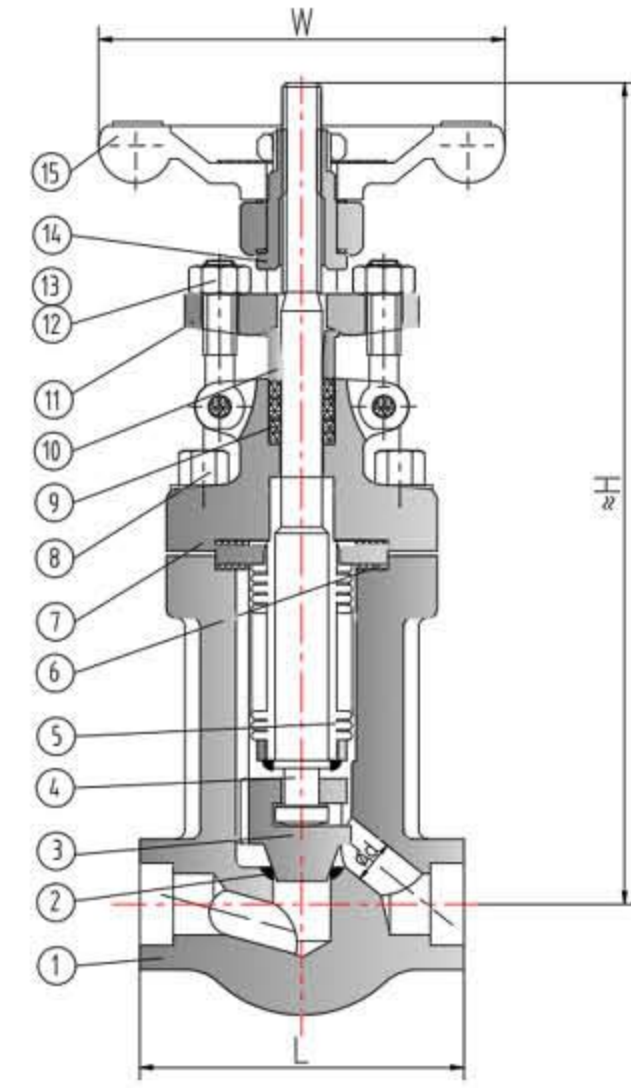
Dimension and Weight

NPS	Conv.	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"	
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
150LB	L	mm	108	117	127	140	165	178					
	H(OPEN)	mm	280	290	310	330	350	400					
	W	mm	100	100	125	160	160	180					
	d	mm	9.0	13	17.5	29	36.5	45					
	Weight	kg	4.2	4.8	7.7	12.5	14.5	21					
300LB	L	mm	140	152	165	178	190	216					
	H(OPEN)	mm	290	300	320	350	370	410					
	W	mm	100	100	125	160	160	180					
	Weight	kg	4.5	5.2	8.2	14.5	16	23					
600LB	L	mm	165	190	216	229	241	292					
	H(OPEN)	mm	290	300	320	350	370	410					
	W	mm	100	100	125	160	160	180					
	d	mm	9.0	13	17.5	29	36.5	45					
	Weight	kg	6.0	8.0	13	18	25	35					

BELLOWS GLOBE VALVE



800LB 1500LB
SW/BW/NPT END



Material List

No.	Part Name	Stainless Steel	
		Cast Steel	Stainless Steel
1	Body	A105	A182 F304(L) A182 F316(L)
2	Seat	A182 F6a	A182 F304(L) A182 F316(L)
3	Disc	A182 F6a	A182 F304(L) A182 F316(L)
4	Stem	A182 F6a	A182 F304(L) A182 F316(L)
5	Bellows	SS304/SS316/SS321/SS316Ti	SS304/SS316/SS321/SS316Ti SS316/SS321/SS316Ti
6	Gasket	Graphite+SS	Graphite+SS Graphite+SS
7	Bonnet	A105	A182 F304(L) A182 F316(L)
8	Bolt	A193 B7	A193 B8 A193 B8M
9	Packing	Graphite+SS	Graphite+SS Graphite+SS
10	Gland	A276 410	A182 F304(L) A182 F316(L)
11	Gland flange	A105	A182 F304 A182 F316
12	Bolt	A193 B7	A193 B8 A193 B8M
13	Nut	A194 2H	A194 8 A194 8M
14	Stem nut	A276 410	A276 410 A276 410
15	Hand wheel	A197	A197 A197

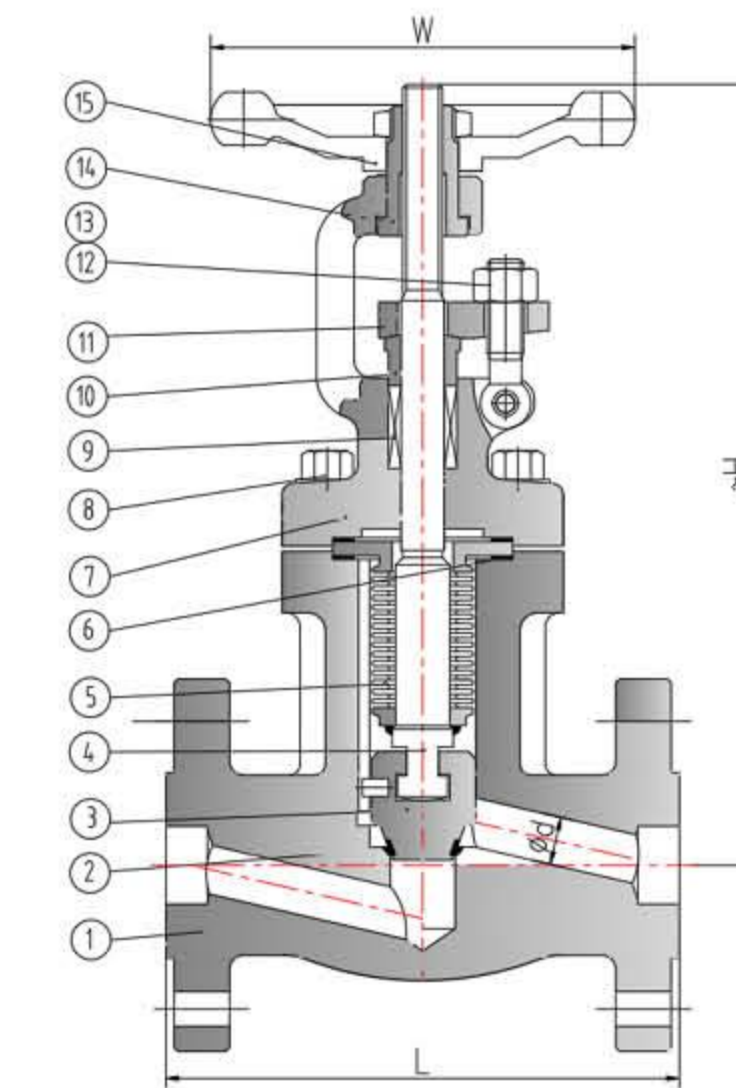
Dimension and Weight

NPS	Conv.	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	/		
									Full	/	3/8"
800LB	L	mm	79	79	92	111	120	152	172	220	
	H(OPEN)	mm	237	237	239	270	298	340	395	470	
	W	mm	100	100	100	125	160	160	180	200	
	d	mm	7.5	9	13.5	18	24	29	35	45	
	Weight	Bolted	kg	2.7	2.7	3.1	5.1	7.6	9.2	12	-
		Welded	kg	-	3.1	3.1	5.1	7.6	9.2	12	20
1500LB	L	mm	92	111	111	120	152	172	200	220	
	H(OPEN)	mm	294	330	380	380	400	450	520	650	
	W	mm	100	125	125	160	160	180	200	220	
	d	mm	7.5	9	15	20	28	32	40	45	
	Weight	Bolted	kg	5.1	5.1	7.6	9.2	12	16	27	-
		Welded	kg	-	5.1	7.6	9.2	12	16	27	35

BELLOWS GLOBE VALVE



150LB 300LB 600LB
RF END



Material List

No.	Part Name	Stainless Steel	
		Cast Steel	Stainless Steel
1	Body	A105	A182 F304(L) A182 F316(L)
2	Seat	A182 F6a	A182 F304(L) A182 F316(L)
3	Disc	A182 F6a	A182 F304(L) A182 F316(L)
4	Stem	A182 F6a	A182 F304(L) A182 F316(L)
5	Bellows	SS304/SS316/SS321/SS316Ti	SS304/SS316/SS321/SS316Ti SS316/SS321/SS316Ti
6	Gasket	Graphite+SS	Graphite+SS Graphite+SS
7	Bonnet	A105	A182 F304(L) A182 F316(L)
8	Bolt	A193 B7	A193 B8 A193 B8M
9	Packing	Graphite+SS	Graphite+SS Graphite+SS
10	Gland	A276 410	A182 F304(L) A182 F316(L)
11	Gland flange	A105	A182 F304 A182 F316
12	Bolt	A193 B7	A193 B8 A193 B8M
13	Nut	A194 2H	A194 8 A194 8M
14	Stem nut	A276 410	A276 410 A276 410
15	Hand wheel	A197	A197 A197

Dimension and Weight

NPS	Conv.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	/	
								Full	/
150LB	L	mm	108	117	127	140	165	203	
	H(OPEN)	mm	280	290	310	330	350	400	
	W	mm	100	100	125	160	160	180	
	d	mm	9.0	13	17.5	23	30	35	
	Weight	kg	4.2	4.8	7.7	12.5	14.5	21	
	300LB	L	mm	152	178	203	216	229	267
H(OPEN)		mm	290	300	320	350	370	410	
W		mm	100	100	125	160	160	180	
d		mm	9.0	13	17.5	23	30	35	
Weight		kg	4.5	5.2	8.2	14.5	16	23	
600LB		L	mm	165	190	216	229	241	292
	H(OPEN)	mm	290	300	320	350	370	410	
	W	mm	100	100	125	160	160	180	
	d	mm	9.0	13	17.5	23	30	35	
	Weight	kg	6.0	8.0	13	18	25	35	

GATE VALVES

SIZE		150/300/600/800 STANDARD PORT GAL/MIN	1500 STANDARD PORT GAL/MIN	2500 STANDARD PORT GAL/MIN	150/300/600/800 FULL PORT GAL/MIN	1500 FULL PORT GAL/MIN	2500 FULL PORT GAL/MIN
in	mm						
1/4"	0.250	4.831	4.831	—	—	—	—
3/8"	0.375	7.682	12.982	—	—	—	—
1/2"	0.500	13.220	13.220	15.332	13.220	13.220	15.332
3/4"	0.750	13.739	13.739	15.934	26.339	26.339	15.934
1"	1.000	27.461	27.461	30.597	48.819	48.819	30.597
1 1/4"	1.250	72.881	49.916	54.163	72.881	72.881	54.163
1 1/2"	1.500	74.596	74.596	69.541	120.121	120.121	69.541
2"	2.000	124.234	126.285	114.233	214.851	214.851	114.233

PISTON CHECK "Y" PATTERN VALVES

SIZE		150/300/600/800 STANDARD PORT GAL/MIN	1500 STANDARD PORT GAL/MIN	2500 STANDARD PORT GAL/MIN	150/300/600/800 FULL PORT GAL/MIN	1500 FULL PORT GAL/MIN	2500 FULL PORT GAL/MIN
in	mm						
1/4"	0.25	—	—	—	—	—	—
3/8"	0.375	—	—	—	—	—	—
1/2"	0.500	1.530	1.530	1.851	2.585	2.585	2.998
3/4"	0.750	2.686	2.686	3.116	4.868	4.868	3.116
1"	1.000	5.075	5.075	5.983	8.767	8.767	5.983
1 1/4"	1.250	8.964	8.964	10.358	13.764	13.764	10.358
1 1/2"	1.500	14.088	14.088	13.598	21.858	21.247	13.598
2"	2.000	22.337	22.337	22.337	40.279	40.279	22.337

GLOBE VALVES

SIZE		150/300/600/800 STANDARD PORT GAL/MIN	1500 STANDARD PORT GAL/MIN	2500 STANDARD PORT GAL/MIN	150/300/600/800 FULL PORT GAL/MIN	1500 FULL PORT GAL/MIN	2500 FULL PORT GAL/MIN
in	mm						
1/4"	0.250	0.624	0.624	—	—	—	—
3/8"	0.375	1.502	1.502	—	—	—	—
1/2"	0.500	1.530	1.530	1.851	2.585	2.585	2.998
3/4"	0.750	2.686	2.686	1.923	4.868	4.868	3.116
1"	1.000	5.075	5.075	3.248	8.767	8.767	5.983
1 1/4"	1.250	8.964	8.964	4.243	13.764	13.764	10.358
1 1/2"	1.500	14.088	14.088	10.840	21.858	21.247	13.598
2"	2.000	22.337	22.337	14.296	40.279	40.279	22.337

BALL CHECK VALVES

SIZE		150/300/600/800 STANDARD PORT GAL/MIN	1500 STANDARD PORT GAL/MIN	2500 STANDARD PORT GAL/MIN	150/300/600/800 FULL PORT GAL/MIN	1500 FULL PORT GAL/MIN	2500 FULL PORT GAL/MIN
in	mm						
1/4"	0.250	0.624	0.624	—	—	—	—
3/8"	0.375	1.502	1.502	—	—	—	—
1/2"	0.500	1.530	1.530	1.851	2.585	2.585	2.998
3/4"	0.750	2.686	2.686	1.923	4.868	4.868	3.116
1"	1.000	5.075	5.075	3.248	8.767	8.767	5.983
1 1/4"	1.250	8.964	8.964	4.243	13.764	13.764	10.358
1 1/2"	1.500	14.088	14.088	10.840	21.858	21.247	13.598
2"	2.000	22.337	22.337	14.296	40.279	40.279	22.337

GLOBE "Y" PATTERN VALVES

SIZE		150/300/600/800 STANDARD PORT GAL/MIN	1500 STANDARD PORT GAL/MIN	2500 STANDARD PORT GAL/MIN	150/300/600/800 FULL PORT GAL/MIN	1500 FULL PORT GAL/MIN	2500 FULL PORT GAL/MIN
in	mm						
1/4"	0.250	0.624	0.624	—	—	—	—
3/8"	0.375	1.502	1.502	—	—	—	—
1/2"	0.500	1.530	1.530	1.851	2.585	2.585	2.998
3/4"	0.750	2.686	2.686	1.923	4.868	4.868	3.116
1"	1.000	5.075	5.075	3.248	8.767	8.767	5.983
1 1/4"	1.250	8.964	8.964	4.243	13.764	13.764	10.358
1 1/2"	1.500	14.088	14.088	10.840	21.858	21.247	13.598
2"	2.000	22.337	22.337	14.296	40.279	40.279	22.337

BALL CHECK "Y" PATTERN VALVES

SIZE		150/300/600/800 STANDARD PORT GAL/MIN	1500 STANDARD PORT GAL/MIN	2500 STANDARD PORT GAL/MIN	150/300/600/800 FULL PORT GAL/MIN	1500 FULL PORT GAL/MIN	2500 FULL PORT GAL/MIN
in	mm						
1/4"	0.25	—	—	—	—	—	—
3/8"	0.375	—	—	—	—	—	—
1/2"	0.500	1.530	1.530	1.851	2.585	2.585	2.998
3/4"	0.750	2.686	2.686	3.116	4.868	4.868	3.116
1"	1.000	5.075	5.075	5.983	8.767	8.767	5.983
1 1/4"	1.250	8.964	8.964	10.358	13.764	13.764	10.358
1 1/2"	1.500	14.088	14.088	13.598	21.858	21.247	13.598
2"	2.000	22.337	22.337	22.337	40.279	40.279	22.337

PISTON CHECK VALVES

SIZE		150/300/600/800 STANDARD PORT GAL/MIN	1500 STANDARD PORT GAL/MIN	2500 STANDARD PORT GAL/MIN	150/300/600/800 FULL PORT GAL/MIN	1500 FULL PORT GAL/MIN	2500 FULL PORT GAL/MIN
in	mm						
1/4"	0.250	0.624	0.624	—	—	—	—
3/8"	0.375	1.502	1.502	—	—	—	—
1/2"	0.500	1.530	1.530	1.851	2.585	2.585	2.998
3/4"	0.750	2.686	2.686	1.923	4.868	4.868	3.116
1"	1.000	5.075	5.075	3.248	8.767	8.767	5.983
1 1/4"	1.250	8.964	8.964	4.243	13.764	13.764	10.358
1 1/2"	1.500	14.088	14.088	10.840	21.858	21.247	13.598
2"	2.000	22.337	22.337	14.296	40.279	40.279	22.337

SWING CHECK VALVES

SIZE		150/300/600/800 STANDARD PORT GAL/MIN	1500 STANDARD PORT GAL/MIN	2500 STANDARD PORT GAL/MIN	150/300/600/800 FULL PORT GAL/MIN	1500 FULL PORT GAL/MIN	2500 FULL PORT GAL/MIN
in	mm						
1/4"	0.250	0.945	0.682	—	—	—	—
3/8"	0.375	1.502	1.502	—	—	—	—
1/2"	0.500	2.585	2.585	1.851	2.585	2.585	2.998
3/4"	0.750	2.686	2.686	3.116	5.150	5.150	3.116
1"	1.000	5.370	5.370	5.983	9.546	9.546	5.983
1 1/4"	1.250	9.761	9.761	10.358	14.251	14.251	10.358
1 1/2"	1.500	14.586	14.586	13.598	23.488	23.488	13.598
2"	2.000	24.694	24.694	22.337	42.012	42.012	22.337

PRESSURE-TEMPERATURE RATINGS



MATERIALS: ASTM A105 N(a)-ASTM A350 LF2(a) BAR-°C

STANDARD CLASS	Temperature °C	150	300	400	600	800	900	1500	2500	4500
-29+38	19,7	51,0	68,3	102,0	136,2	153,1	255,5	425,4	766,0	
93,3	17,9	46,5	62,1	93,1	124,1	139,6	232,7	387,8	697,8	
148,9	15,9	45,2	60,3	90,7	120,7	135,8	226,2	377,2	678,8	
204,4	13,8	43,8	58,3	87,6	116,5	131,0	218,6	364,1	655,4	
260,0	11,7	41,4	55,2	82,7	110,0	123,8	206,5	344,1	619,2	
315,6	9,7	37,9	50,3	75,5	100,7	113,1	188,6	314,4	566,1	
343,3	8,6	36,9	49,3	74,1	98,6	111,0	185,1	308,6	555,4	
371,1	7,6	36,9	49,0	73,4	97,9	110,3	183,8	306,1	550,9	
398,9	6,6	34,8	46,2	69,6	92,7	104,1	173,8	289,6	521,3	
426,7	5,5	28,3	37,9	56,9	75,8	85,2	142,0	236,5	425,4	
454,4	4,5	18,6	24,5	36,9	49,3	55,5	92,4	153,8	276,5	
482,2	3,4	11,7	15,9	23,8	31,7	35,5	59,3	98,6	177,2	
510,0	2,4	7,2	9,7	14,1	19,0	21,4	35,5	59,3	106,5	
537,8	1,4	3,4	4,8	7,2	9,6	10,7	17,9	29,6	53,1	

MATERIALS: ASTM A182 F5-ASTM A182 F5a BAR-°C

Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.

STANDARD CLASS	Temperature °C	150	300	400	600	800	900	1500	2500	4500
-29+38	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7	
93,3	17,9	51,4	68,6	102,7	137,9	154,1	256,8	427,8	770,2	
148,9	15,9	49,3	65,8	98,6	133,8	148,2	246,8	411,3	740,5	
204,4	13,8	48,6	64,8	97,2	129,6	145,8	243,4	405,4	729,8	
260,0	11,7	45,9	61,0	91,7	122,4	137,6	229,3	382,0	687,1	
315,6	9,7	41,7	55,5	83,4	111,3	125,1	208,6	347,5	625,4	
343,3	8,6	40,7	54,1	81,0	108,2	121,7	202,7	338,2	608,5	
371,1	7,6	39,3	52,1	78,3	104,4	117,6	195,8	326,1	587,1	
398,9	6,6	36,5	48,6	72,7	97,9	109,3	182,0	303,4	546,1	
426,7	5,5	35,2	46,5	70,0	91,3	105,1	175,1	291,7	524,7	
454,4	4,5	33,4	44,5	66,5	80,7	100,0	166,5	277,9	499,9	
482,2	3,4	25,5	34,1	51,0	64,8	76,5	127,6	212,7	383,0	
510,0	2,4	19,0	25,2	37,9	47,9	56,9	94,5	157,6	283,7	
537,8	1,4	13,8	18,3	27,6	35,2	41,0	68,6	114,1	205,8	
565,6	1,4	10,0	13,1	20,0	25,8	29,6	49,6	82,7	148,9	
593,3	1,4	6,9	9,3	13,8	19,0	20,7	34,1	57,2	102,7	
621,1	1,4	4,1	5,5	8,6	12,7	12,8	21,4	35,5	63,8	
648,9	1,0	2,4	3,1	4,8	8,3	7,2	11,7	19,7	35,5	

MATERIALS: ASTM A182 F11 CL2 (b) - ASTM A182 F12 CL2 (b) BAR-°C

Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.

STANDARD CLASS	Temperature °C	150	300	400	600	800	900	1500	2500	4500
-29+38	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7	
93,3	17,9	51,7	69,0	103,4	131,0	151,1	258,6	430,9	775,7	
148,9	15,9	49,6	66,5	99,6	123,8	149,3	248,9	414,7	746,7	
204,4	13,8	47,9	63,8	95,5	121,0	143,4	238,9	398,2	717,1	
260,0	11,7	45,9	61,0	91,7	117,9	137,6	229,3	382,0	687,1	
315,6	9,7	41,7	55,5	83,4	111,3	125,1	208,6	347,5	625,4	
343,3	8,6	40,7	54,1	81,0	108,2	121,7	202,7	338,2	608,5	
371,1	7,6	39,3	52,1	78,3	104,4	117,6	195,8	326,1	587,1	
398,9	6,6	36,5	49,0	73,4	97,9	110,0	183,4	305,4	549,5	
426,7	5,5	35,2	46,5	70,0	93,4	105,1	175,1	291,7	524,7	
454,4	4,5	33,4	44,8	67,2	89,6	100,7	167,9	279,9	503,7	
482,2	3,4	31,0	41,4	62,1	82,7	93,1	154,8	258,2	464,7	
510,0	2,4	22,1	29,3	44,1	69,3	65,8	110,0	183,1	329,9	
537,8	1,4	14,8	20,0	29,6	41,0	44,8	74,5	124,1	223,4	
565,6	1,4	10,0	13,1	20,0	25,2	29,6	49,6	82,7	148,9	
593,3	1,4	6,6	9,0	13,1	17,6	20,0	33,1	55,2	99,3	
621,1	1,4	4,1	5,5	8,6	9,6	12,8	21,4	35,5	63,8	
648,9	1,0	2,8	3,4	5,2	6,5	7,9	13,1	21,7	39,0	

MATERIALS: ASTM A182 F22 CL3 (b) BAR-°C

Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.

STANDARD CLASS	Temperature °C	150	300	400	600	800	900	1500	2500	4500
-29+38	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7	
93,3	17,9	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7	
148,9	15,9	50,3	66,9	100,3	133,7	150,7	251,0	418,5	753,3	
204,4	13,8	48,6	64,8	97,2	129,6	145,8	243,4	405,4	729,8	
260,0	11,7	45,9	61,0	91,7	122,4	137,6	229,3	382,0	687,1	
315,6	9,7	41,7	55,5	83,4	111,3	125,1	208,6	347,5	625,4	
343,3	8,6	40,7	54,1	81,0	108,2	121,7	202,7	338,2	608,5	
371,1	7,6	39,3	52,1	78,3	104,4	117,6	195,8	326,1	587,1	
398,9	6,6	36,5	49,0	73,4	97,9	110,0	183,4	305,4	549,5	
426,7	5,5	35,2	46,5	70,0	86,5	105,1	175,1	291,7	524,7	
454,4	4,5	33,4	44,8	67,2	89,6	100,7	167,9	279,9	503,7	
482,2	3,4	31,0	41,4	62,1	82,7	93,1	154,8	258,2	464,7	
510,0	2,4	25,9	34,8	52,1	69,3	77,9	130,0	216,8	390,6	
537,8	1,4	17,9	23,8	35,9	48,0	53,8	90,0	149,6	269,6	
565,6	1,4	12,1	16,2	24,1	32,1	36,2	60,3	100,3	181,0	
593,3	1,4	7,6	10,0	15,2	20,3	22,8	37,9	63,1	113,4	
621,1	1,4	4,8	6,2	9,3	12,4	14,1	23,8	39,3	71,0	
648,9	1,4	2,8	3,8	5,5	7,6	8,6	14,1	23,8	42,4	

MATERIALS: ASTM A182 F9 BAR-°C

Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.

STANDARD CLASS	Temperature °C	150	300	400	600	800	900	1500	2500	4500
-29+38	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7	
93,3	17,9	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7	
148,9	15,9	50,3	66,9	100,3	133,8	150,7	251,0	418,5	753,3	
204,4	13,8	48,6	64,8	97,2	129,6	145,8	243,4	405,4	729,8	
260,0	11,7	45,9	61,0	91,7	122,4	137,6	229,3	382,0	687,1	
315,6	9,7	41,7	55,5	83,4	111,3	125,1	208,6	347,5	625,4	
343,3	8,6	40,7	54,1	81,0	108,2	121,7	202,7	338,2	608,5	
371,1	7,6	39,3	52,1	78,3	104,4	117,6	195,8	326,1	587,1	
398,9	6,6	36,5	49,0	73,4	97,9	110,0	183,4	305,4	549,5	
426,7	5,5	35,2	46,5	70,0	93,4	105,1	175,1	291,7	524,7	
454,4	4,5	33,4	44,8	67,2	89,6	100,7	167,9	279,9	503,7	
482,2	3,4	31,0	41,4	62,1	82,7	93,1	154,8	258,2	464,7	
510,0	2,4	25,9	34,8	52,1	67,9	77,9	130,0	216,8	389,9	
537,8	1,4	17,6	23,4	34,8	53,8	52,4	87,6	145,8	262,4	
565,6	1,4	11,7	15,9	23,8	34,8	35,5	59,0	98,6	177,2	
593,3	1,4	7,9	10,3	15,5	20,7	23,4	39,0	65,2	116,9	
621,1	1,4	5,2	6,9	10,3	13,8	15,5	25,9	43,4	77,9	
648,9	1,4	3,4	4,8	7,2	9,6	10,7	17,6	29,6	53,1	

MATERIALS: ASTM A182 F91 BAR-°C

Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.

STANDARD CLASS	Temperature °C	150	300	400	600	800	900	1500	2500	4500
-29+38	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7	
93,3	17,9	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7	
148,9	15,9	50,3	66,9	100,3	133,8	150,7	251,0	418,5	753,3	
204,4	13,8	48,6	64,8	97,2	129,6	145,8	243,4	405,4	729,8	
260,0	11,7	45,9	61,0	91,7	122,4	137,6	229,3	382,0	687,1	
315,6	9,7	41,7	55,5	83,4	111,3	125,1	208,6	347,5	625,4	
343,3	8,6	40,7	54,1	81,0	108,2	121,7	202,7	338,2	608,5	
371,1	7,6	39,3	52,1	78,3	104,4	117,6	195,8	326,1	587,1	
398,9	6,6	36,5	49,0	73,4	97,9	110,0	183,4	305,4	549,5	
426,7	5,5	35,2	46,5	70,0	93,4	105,1	175,1	291,7	524,7	
454,4	4,5	33,4	44,8	67,2	89,6	100,7	167,9	279,9	503,7	
482,2	3,4	31,0	41,4	62,1	82,7	93,1	154,8	258,2	464,7	
510,0	2,4	26,6	35,5	53,4	71,0	80,0	133,1	222,0	339,7	
537,8	1,4	25,1	33,4	50,0	66,9	75,1	125,5	209,0	375,9	
565,6	1,4	24,8	33,1	49,7	66,2	74,5	124,1	206,9	372,4	
593,3	1,4	20,7	27,6	41,7	55,5	62,4	104,1	173,4	312,0	
621,1	1,4	15,5	20,3	30,7	41,0	46,2	76,9	127,9	230,7	
648,9	1,4	10,0	13,1	20,0	26,5	29,7	49,7	82,8	149,0	

MATERIALS: ASTM A182 F304 (c) - ASTM A182 F304H BAR-°C

Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.

STANDARD CLASS	Temperature °C	150
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PRESSURE-TEMPERATURE RATINGS



MATERIALS: ASTM A182 F321 (f) – ASTM A182 F321H (g) BAR-°C

STANDARD CLASS Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.

Temperature °C	150	300	400	600	800	900	1500	2500	4500
-29+38	19,0	49,6	66,2	99,3	132,4	149,0	248,2	413,7	744,7
93,3	16,9	44,5	59,3	89,0	118,6	133,4	222,7	370,9	667,8
148,9	15,9	41,0	54,8	82,0	109,3	123,1	205,1	342,0	615,7
204,4	13,8	38,0	50,7	76,2	101,3	114,1	190,3	317,2	571,0
260,0	11,7	35,5	47,2	71,0	94,8	106,5	177,2	295,5	532,0
315,6	9,6	33,4	44,8	67,2	89,6	100,7	167,9	280	504
343,3	8,6	33,1	43,8	65,8	87,9	99,0	164,8	274,4	494
371,1	7,6	32,1	43,8	64,1	85,5	96,2	160,6	267,5	481,6
398,9	6,5	31,7	42,0	63,1	84,1	94,8	157,9	263,4	474,0
426,7	5,5	31,0	41,4	62,0	83,1	93,4	155,5	259,2	466,8
454,4	4,5	30,7	41,0	61,7	82,0	92,4	153,7	256,5	461,6
482,2	3,4	30,3	40,7	61,0	81,4	91,3	152,4	253,7	456,8
510,0	2,4	26,5	35,5	53,4	71,0	80,0	133,1	222,0	399,6
537,8	1,4	24,5	32,7	49,3	65,5	73,8	123,1	204,8	368,9
565,6	1,4	21,7	28,6	43,1	57,6	64,8	107,9	179,6	323,4
593,3	1,4	18,6	24,8	37,6	50,0	56,2	93,8	156,2	281,0
621,1	1,4	16,2	21,7	32,7	43,4	49,0	81,7	135,8	244,8
648,9	1,4	12,7	16,9	25,5	34,1	38,3	63,8	106,5	191,3
676,7	1,4	9,6	12,7	19,3	25,8	9,0	48,6	80,7	145,5
704,4	1,4	7,6	10,0	15,2	20,3	22,7	37,9	63,1	113,4
732,2	1,4	5,9	7,9	11,7	15,5	17,6	29,6	49,3	88,6
760,0	1,4	4,5	5,9	9,0	12,1	13,4	22,4	37,6	67,2
787,8	1,4	3,4	4,8	7,2	9,6	10,7	17,6	29,6	53,1
815,6	1,4	1,6	3,4	5,2	6,9	7,9	13,1	21,7	39,0

MATERIALS: ASTM B564 N08800 BAR-°C

STANDARD CLASS Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.

Temperature °C	150	300	400	600	800	900	1500	2500	4500
-29+38	19,0	49,6	66,2	99,3	132,4	148,9	248,2	413,7	744,7
93,3	17,6	45,5	61,0	91,4	121,9	137,2	228,2	380,6	685,0
148,9	15,9	43,1	57,2	86,2	114,7	128,9	215,1	358,5	645,4
204,4	13,8	41,4	55,2	82,7	110,3	124,1	206,9	344,8	620,6
260,0	11,7	40,0	53,1	79,6	106,3	119,6	199,3	332,3	611,9
315,6	9,7	39,6	52,7	78,9	105,3	118,6	197,9	329,6	593,3
343,3	8,6	39,3	52,4	78,6	104,6	117,6	196,2	326,8	588,1
371,1	7,6	39,0	51,7	77,9	103,6	116,5	194,4	324,1	583,3
398,9	6,6	36,5	49,0	73,4	97,8	110,0	183,4	305,4	549,5
426,7	5,5	34,8	46,5	70,0	93,2	104,8	174,8	291,7	524,7
454,4	4,5	33,4	44,8	67,2	89,5	100,7	167,9	279,9	503,7
482,2	3,4	31,0	41,4	62,1	82,7	93,1	154,8	258,2	464,7
510,0	2,4	26,5	35,5	53,4	71,1	80,0	133,1	222,0	399,6
537,8	1,4	25,2	33,4	50,0	66,7	75,2	125,5	208,9	375,8
565,6	1,4	24,8	33,1	49,6	66,2	74,5	124,1	206,9	372,3
593,3	1,4	22,4	29,6	44,5	59,1	66,5	111,0	185,1	333,4
621,1	1,4	19,0	25,2	37,9	50,5	56,9	94,5	157,6	283,7
648,9	1,4	14,1	18,6	27,9	37,4	42,1	70,3	116,9	210,6
676,7	1,4	9,0	12,1	17,9	23,9	26,9	44,8	74,5	134,1
704,4	1,4	4,1	5,5	8,6	11,4	12,8	21,4	35,5	63,8
732,2	1,4	3,4	4,5	6,9	9,2	10,3	16,9	28,3	51,0
760,0	1,0	2,4	3,1	4,8	6,2	6,9	11,7	19,7	35,2
787,8	0,7	2,1	2,8	4,1	5,7	6,6	10,7	17,6	32,1
815,6	0,7	1,7	2,4	3,4	4,6	5,2	8,6	14,1	25,5

MATERIALS: ASTM A182 F347 (f) – ASTM A182 F347H (g) BAR-°C

STANDARD CLASS Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.

Temperature °C	150	300	400	600	800	900	1500	2500	4500
-29+38	19,0	49,6	66,2	99,3	132,4	149,0	248,2	413,7	744,6
93,3	17,6	45,5	60,7	91,0	121,3	136,5	227,5	379,2	682,6
148,9	15,8	42,4	56,5	84,8	113,1	127,2	211,7	353,0	635,4
204,4	13,8	39,6	52,7	79,0	105,5	118,6	197,9	329,7	593,3
260,0	11,7	37,2	49,6	74,5	99,3	111,7	186,2	310,3	558,5
315,6	9,6	35,5	47,2	70,7	94,5	106,2	177,2	295,1	531,2
343,3	8,6	34,8	46,2	69,6	92,8	104,1	173,7	289,6	521,3
371,1	7,6	34,1	45,5	68,3	91,0	102,4	170,3	284,1	511,3
398,9	6,5	33,8	45,2	67,9	90,3	101,7	169,6	282,7	508,8
426,7	5,5	33,4	44,8	67,2	89,6	100,7	167,9	280,0	504,3
454,4	4,5	33,4	44,5	66,9	89,3	100,3	167,2	278,5	501,3
482,2	3,4	31,0	41,4	62,0	82,7	93,1	154,8	258,2	464,7
510,0	2,4	26,5	35,5	53,4	71,0	80,0	133,1	222,0	399,6
537,8	1,4	25,2	33,4	50,0	66,9	75,1	125,5	208,9	375,8
565,6	1,4	24,8	33,1	49,6	66,2	74,5	124,1	206,8	372,3
593,3	1,4	22,4	29,6	44,5	59,3	66,5	111,0	185,1	333,4
621,1	1,4	19,0	25,2	37,9	50,7	56,9	94,5	157,5	283,7
648,9	1,4	11,7	15,8	23,8	31,7	35,5	58,9	98,6	177,2
676,7	1,4	8,6	11,4	16,9	22,7	25,5	42,4	71,0	127,5
704,4	1,4	6,5	8,6	12,7	17,2	19,3	32,1	53,1	95,8
732,2	1,4	4,8	6,2	9,3	12,4	14,1	23,8	39,3	71,0
760,0	1,4	3,8	5,2	7,6	10,0	11,4	19,0	31,4	56,9
787,8	1,0	2,7	3,8	5,5	7,6	8,6	14,1	23,8	42,4
815,6	1,0	2,4	3,1	4,8	6,5	7,2	11,7	19,6	35,5

MATERIALS: ASTM B564 N06625 (h) BAR-°C

STANDARD CLASS Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.

Temperature °C	150	300	400	600	800	900	1500	2500	4500
-29+38	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7
93,3	17,9	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7
148,9	15,9	50,3	66,9	100,3	133,9	150,7	251,0	418,5	753,3
204,4	13,8	48,6	64,8	97,2	129,6	145,8	243,4	405,4	729,8
260,0	11,7	45,9	61,0	91,7	122,2	137,6	229,3	382,0	687,1
315,6	9,7	41,7	55,5	83,4	111,2	125,1	208,6	347,5	625,4
343,3	8,6	40,7	54,1	81,0	108,1	121,7	202,7	338,2	608,5
371,1	7,6	39,3	52,1	78,3	104,4	117,6	195,8	326,1	587,1
398,9	6,6	36,5	49,0	73,4	97,8	110,0	183,4	305,4	549,5
426,7	5,5	35,2	46,5	70,0	93,4	105,1	175,1	291,7	524,7
454,4	4,5	33,4	44,8	67,2	89,5	100,7	167,9	279,9	503,7
482,2	3,4	31,0	41,4	62,1	82,7	93,1	154,8	258,2	464,7
510,0	2,4	26,5	35,5	53,4	71,1	80,0	133,1	222,0	399,6
537,8	1,4	25,2	33,4	50,0	66,7	75,2	125,5	208,9	375,8
565,6	1,4	24,8	33,1	49,6	66,2	74,5	124,1	206,9	372,3
593,3	1,4	22,4	29,6	44,5	59,1	66,5	111,0	185,1	333,4
621,1	1,4	19,0	25,2	37,9	50,5	56,9	94,5	157,6	283,7
648,9	1,4	12,8	16,9	25,5	34,0	38,3	63,8	106,5	191,3
676,7	1,4	10,0	13,4	20,3	27,0	30,3	50,7	84,1	151,7
704,4	1,4	7,6	10,0	14,8	19,8	22,4	37,2	62,1	111,7

MATERIALS: ASTM B564 N06600 BAR-°C

STANDARD CLASS Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.

Temperature °C	150	300	400	600	800	900	1500	2500	4500
-29+38	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7
93,3	17,9	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7
148,9	15,9	50,3	66,9	100,3	133,9	150,7	251,0	418,5	753,3
204,4	13,8	48,6	64,8	97,2	129,6	145,8	243,4	405,4	729,8
260,0	11,7	45,9	61,0	91,7	122,2	137,6	229,3	382,0	687,1
315,6	9,7	41,7	55,5	83,4	111,2	125,1	208,6	347,5	625,4
343,3	8,6	40,7	54,1	81,0	108,1	121,7	202,7	338,2	608,5
371,1	7,6	39,3	52,1	78,3	104,5	117,6	195,8	326,1	587,1
398,9	6,6	36,5	49,0	73,4	97,8	110,0	183,4	305,4	549,5
426,7	5,5	35,2	46,5	70,0	93,4	105,1	175,1	291,7	524,7
454,4	4,5	33,4	44,8	67,2	89,5	100,7	167,9	279,9	503,7
482,2	3,4	31,0	41,4	62,1	82,7	93,1	154,8	258,2	464,7
510,0	2,4	22,4	30,0	45,2	60,1	67,6	112,7	187,9	338,2
537,8	1,4	14,8	20,0	29,6	39,8	44,8	74,5	124,1	223,4
565,6	1,4	9,7	12,8	19,3	25,5	28,6	47,9	79,6	143,8
593,3	1,4	6,6	8,6	12,8	17,1	19,3	32,1	53,1	95,8
621,1	1,4	4,8	6,2	9,3	12,5	14,1	23,4	39,0	73,8
648,9	1,4	4,1	5,5	8,6	11,4	12,8	21,4	35,5	63,8

MATERIALS: ASTM B564 N04400 BAR-°C

STANDARD CLASS Note: for temperature >540°C valves in class150lbs are limited to BW Ends only.