



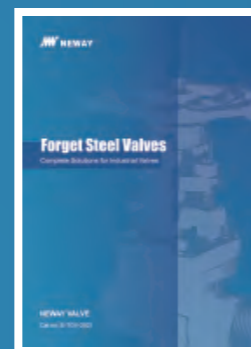
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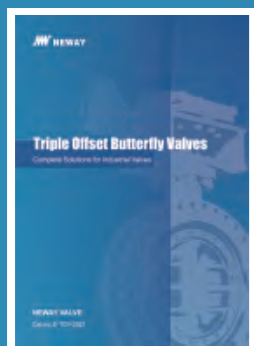
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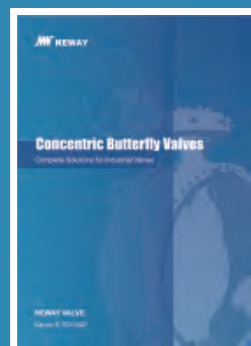
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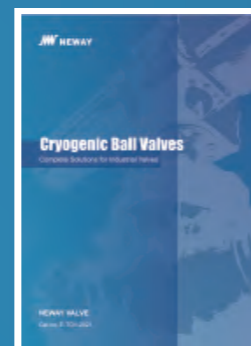
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Cat.no.:E-CBV



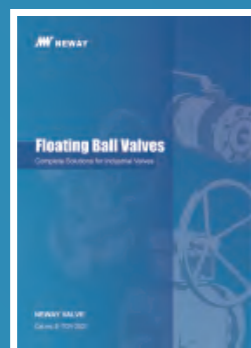
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Cat.no.:E-CBV



Cat.no.:E-FWBV



Cat.no.:E-FBV



Cat.no.:E-TMBV



Cat.no.:E-MSBV

Forged Steel Valves

Complete Solutions for Industrial Valves



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Complete Solutions for Industrial Valves

As a global leader of valve manufacturing, Neway (SSE:603699) is dedicated to the production, research, and development of industrial valves. Neway is committed to providing complete valve solutions to all industries through advanced engineering and innovation.

Neway's product line includes Ball, Butterfly, Gate, Globe, Check, Nuclear, Control, Subsea, Safety valves. Our high quality standards and innovative ability are recognized by many global end users and EPCs. Neway valves are utilized in a wide variety of industries and working conditions such as Refining, Chemical, Coal Chemical, Offshore(including subsea), Air Separation, LNG, Nuclear Power, Power Generation, and Pipeline Transmission applications.

Facilities & Service

Neway has developed a sophisticated multi-plant management system operating one valve assembly plant, one API6A valve plant, three foundries, and one R&D center. Our largest assembly plant was expanded in 2013, and it now covers 35,000 square meters.

Advanced software (ANSYS, FE-Safe, CF-Design, Siemens PLM and NX) is applied here at Neway for the Research & Development of products. We use SAP to control the traceability and status of all products during the manufacturing process. In order to ensure the safety, eco-friendliness, and reliability of our products, we use the most advanced fire-safe, cryogenic, high pressure, and fugitive emission test equipment.

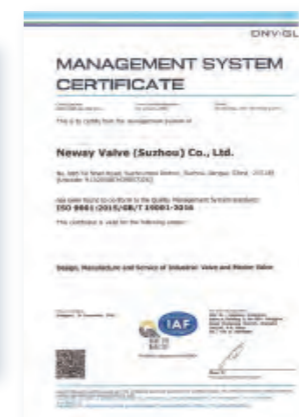
As part of Neway's global strategy, to provide better service to our customers, we have established our overseas subsidiaries in USA, Netherlands, Italy, Singapore, and Dubai along with over 80 agents and distributors worldwide.

Quality Assurance

Neway is dedicated to the pursuit of "Zero Defect". We maintain a quality management system that encompasses our entire operation from order entry, to final inspection. Through Neway's continuous efforts, our products have successfully achieved industrial certificates including ISO 9001, API 6A, API 6D, CE/PED, ASME N & NPT, TA-Luft, ABS, CU-TR, and Fire-Safe approvals.



API 6A



ISO9001



CE/PED



Fire Safe Test Certificate



TA Luft



ABS



API 6D



API 591

Neway recognizes the importance of valve quality for the safety and protection of personnel health and property. It is our quality commitment to focus our resources to provide our customers with first class products at a competitive price, designed, manufactured, inspected and tested in accordance with our customers specifications and complying with all international standards.

Current industrial standards do not always take into consideration the likelihood and consequences of possible deterioration in service, related to specific service fluids or the external environments in which they operate. Therefore we request that our customers communicate with our engineering department. Our valve optimization program continuously strives to provide valves that withstand deterioration in service, and ensure safety over the valves expected lifetime.



Neway figure numbers are designed to cover essential features.

When ordering, please show figure number to avoid misunderstanding of your requirements.

However a detailed description must accompany with any special orders.

Following descriptions provide a basic guideline in valve specification:

① Valve Size

② Valve Type

Valve Type	Gate Valve	Gate Valve	Y Type Globe Valve	Swing Check	Piston Check	Y Type Piston Check
Symbol	G	GL	GLY	S	P	PY

③ Valve Class

ANSI Class	150	300	600	800	900	1500	2500
Symbol	1	3	6	8	9	15	25

④ End Connection

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

⑤ Special Code

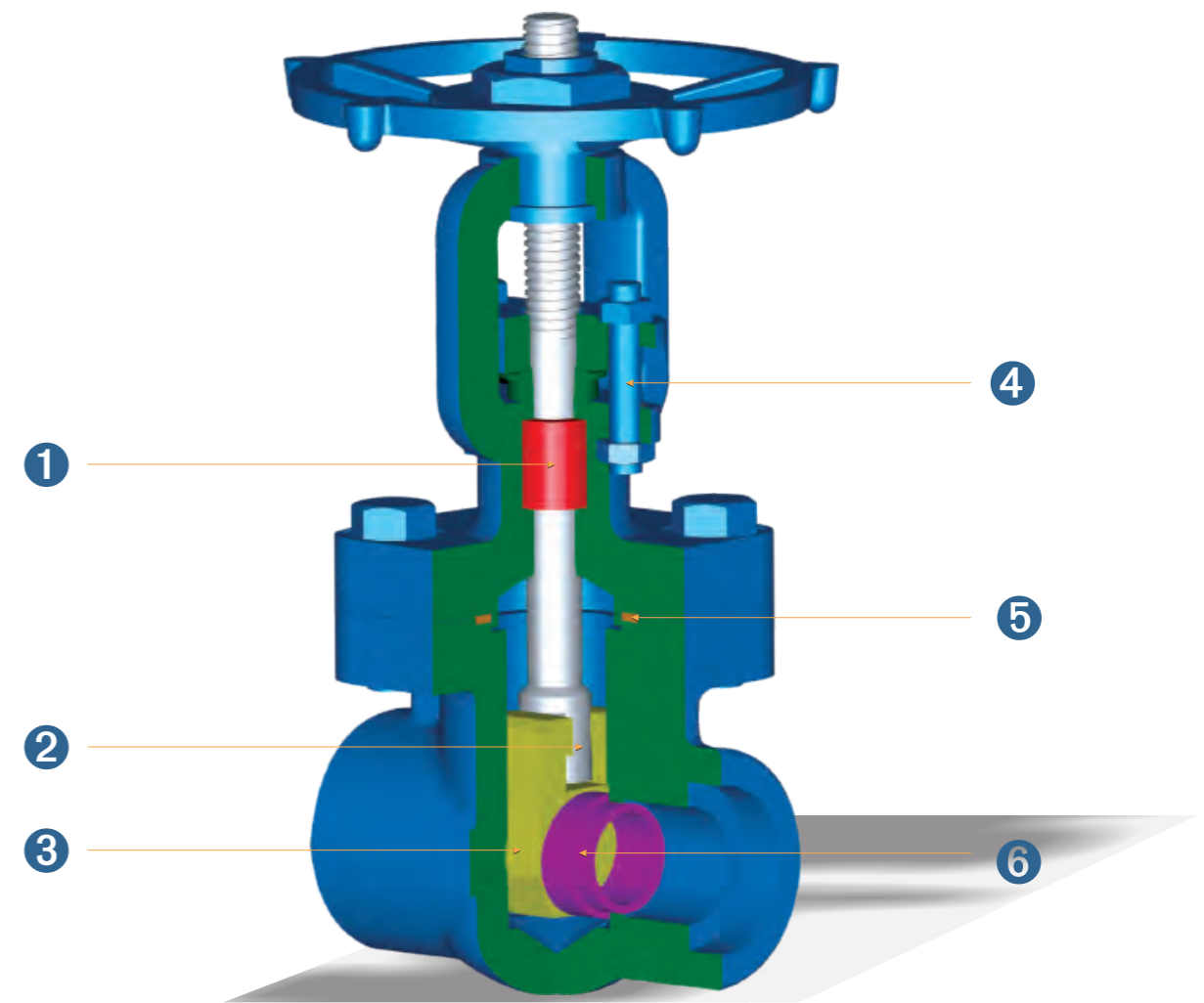
Description	Welding Bonnet	RTJ Bonnet	Full Port	Electric Actuator	Pneumatic Actuator
Symbol	FW	J	FP	M	P

⑥ Body Materials

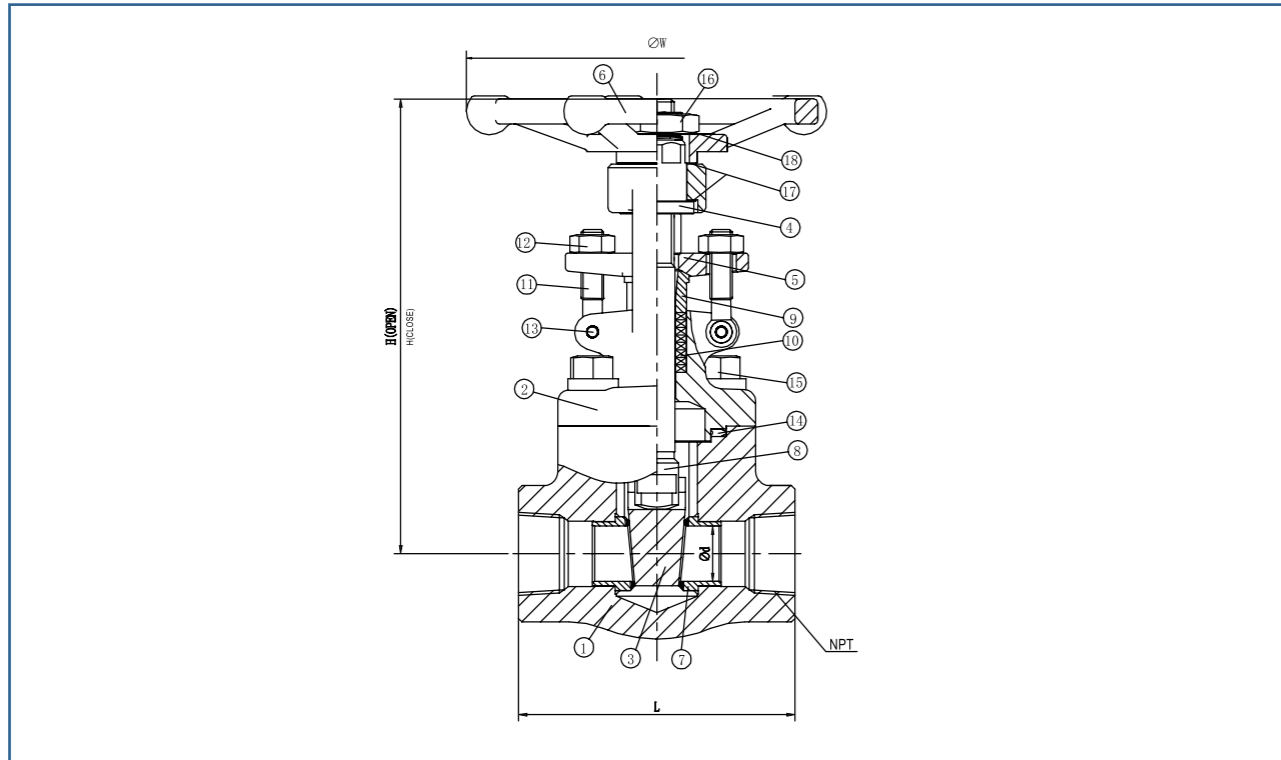
Body Materials	C40	L70	H41	H42	H43	S40	S41	S42	S43
ASTM Ref.	A105N	A350 Gr.LF2	A182 Gr.F11	A182 Gr.F22	A182 Gr.F5	A182 Gr.F304	A182 Gr.F316	A182 Gr.F304L	A182 Gr.F316L

⑦ Trim Materials

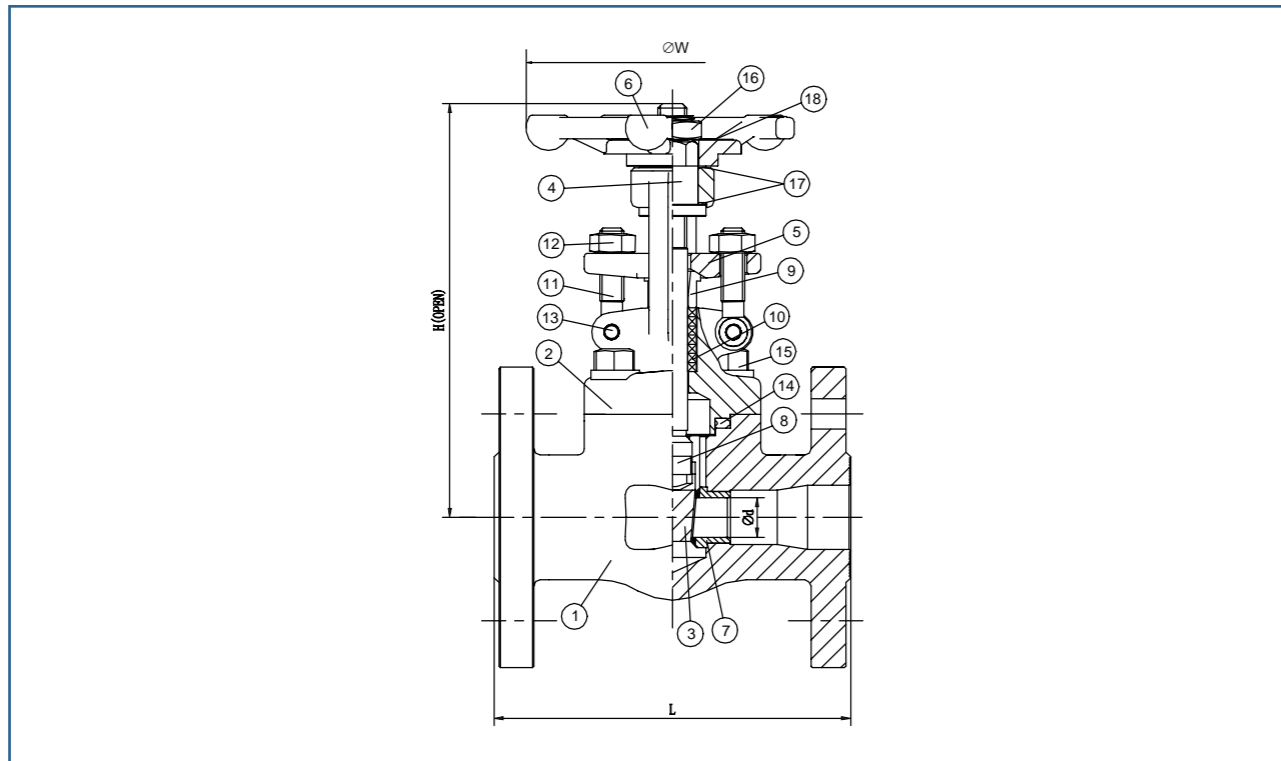
Symbol	Disc Surface	Seat Surface	Stem Materials
No.1	13Cr	13Cr	ASTM A182-F6a
No.2	18Cr-8Ni	18Cr-8Ni	ASTM A182-F304
No.5	Hard faced	Hard faced	ASTM A182-F6a
No.8	13Cr	Hard faced	ASTM A182-F6a
No.10	18Cr-8Ni-Mo	18Cr-8Ni-Mo	ASTM A182-F316
No.12	18Cr-8Ni-Mo	Hard faced	ASTM A182-F316
No.15	18Cr-8Ni	Hard faced	ASTM A182-F304
No.16	Hard faced	Hard faced	ASTM A182-F316



- ① A positive backseat, high quality packing material and improved stuffing box design ensure tighter stem seal.
- ② The T-head stem design provides positive disc to stem connection and ensures effective seating operation.
- ③ Fully guided solid wedge reduces wear on seating surfaces.
- ④ Stud and bolt arrangement facilitates packing maintenance.
- ⑤ Recessed Body-Bonnet Joint design captures the stainless steel spiral wound gasket ensuring body/bonnet sealing integrity.
- ⑥ Rolled-in seat design ensures tight and effective seat assembly.



Bolted Bonnet



Integral Flanged Ends

Material List

NO.	Description of Parts	Material		
		Standard	High Temperature	Stainless Steel
1	BODY	ASTM A105N	ASTM A182 F11/F22	ASTM A182 F304/F316
2	BONNET	ASTM A105N	ASTM A182 F11/F22	ASTM A182 F304/F316
3	WEDGE	ASTM A276 410	ASTM A276 410	ASTM A182 F304/F316
4	STEM NUT	ASTM A276 410	ASTM A276 410	ASTM A276 410
5	GLAND FLANGE	ASTM A105N	ASTM A105N	ASTM A182 F316
6	HANDWHEEL	A197	A197	A197
7	SEAT RING	ASTM A276 410/STL.6 OVERLAY	ASTM A276 410/STL.6 OVERLAY	ASTM A182 F304/F316/STL.6 OVERLAY
8	STEM	ASTM A276 410	ASTM A276 410	ASTM A182 F304/F316
9	GLAND	ASTM A276 420	ASTM A276 420	ASTM A276 316
10	PACKING	GRAPHITE	GRAPHITE	GRAPHITE
11	STUD	ASTM A193-B7	ASTM A193-B16	ASTM A193-B8
12	NUT	ASTM A194-2H	ASTM A194-7	ASTM A194-8
13	PIN	ASTM A276 304	ASTM A276 304	ASTM A276 316
14	GASKET	SPIRAL WOUND GRAPHITE/316LSS	SPIRAL WOUND GRAPHITE/316LSS	SPIRAL WOUND GRAPHITE/316LSS
15	STUD	ASTM A193-B7	ASTM A193-B16	ASTM A193-B8
16	HANDWHEEL NUT	AISI 1020	AISI 1020	AISI 1020
17	WASHER	410	410	410
18	NAME PLATE	304SS	304SS	304SS

Class 800 Bolted Bonnet

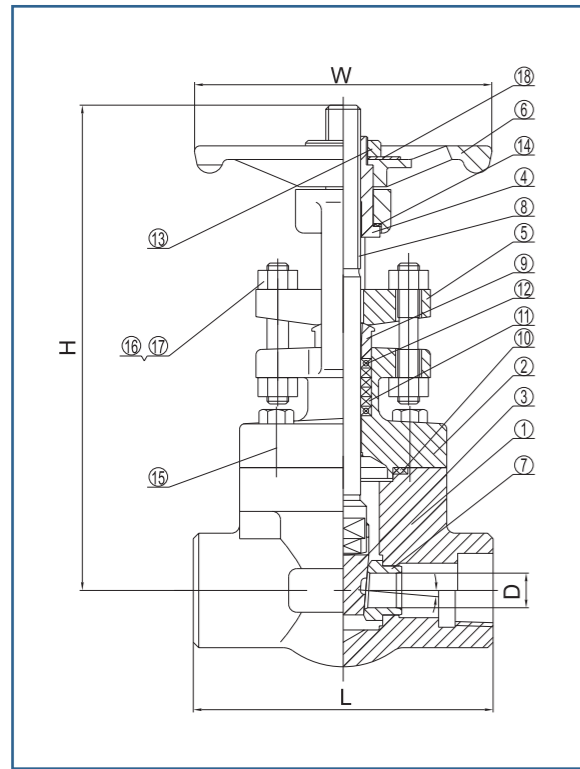
Regular and Full Port - API602. Outside Screw & Yoke -Threaded and Socket Weld Ends

Full Port	Size	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2		2	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
End to End	L	79	3.11	79	3.11	79	3.11	92	3.62	111	4.37	120	4.72	120	4.72	140	5.51
Bore Diameter	d	7.5	0.30	10	0.39	13	0.51	13	0.51	18	0.71	24	0.94	29	1.14	36.5	1.44
Center to Top (Open)	H	157	6.18	157	6.18	157	6.18	157	6.18	185	7.28	226	8.90	241	9.49	273	10.75
Handwheel	W	100	3.94	100	3.94	100	3.94	100	3.94	120	4.72	160	6.30	160	6.30	220	8.66

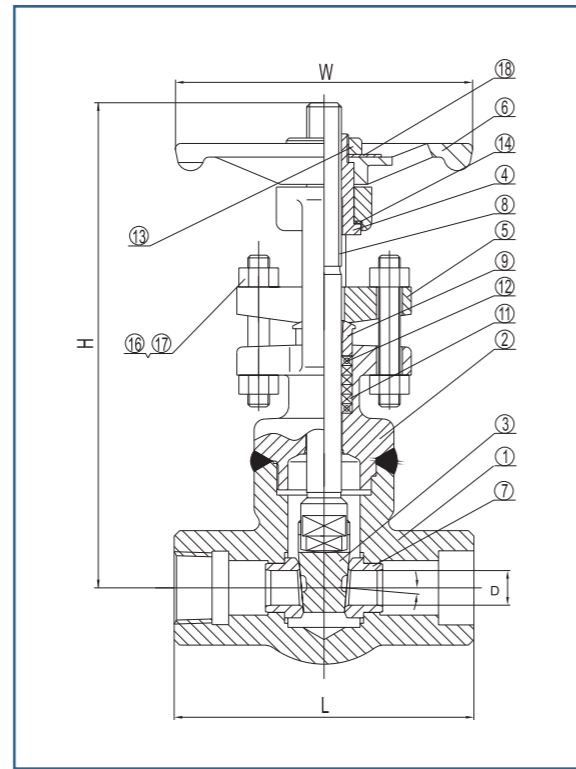
Class 150-300-600 Overall-end Flange, Bolted Bonnet, Structure Length-ASME B16.10

Regular Port -API 602. Outside Yoke & overall-end Flange -ASME B16.5

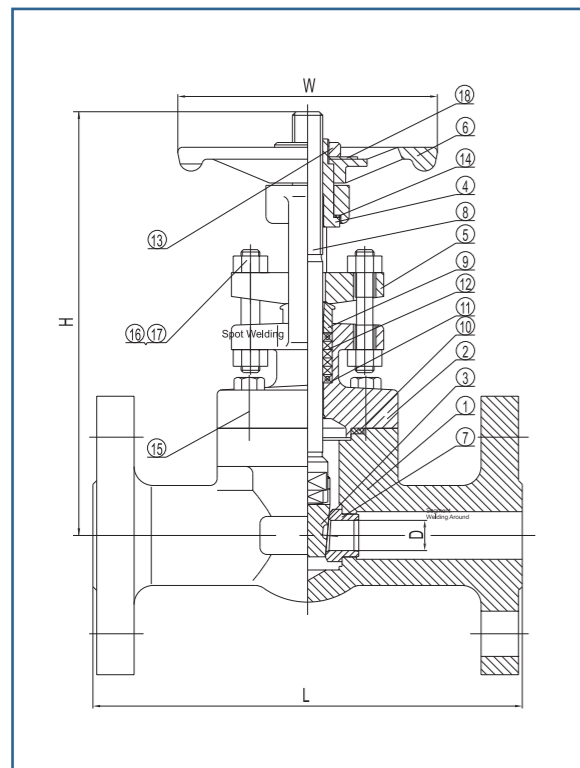
Regular Port	Size	1/2		3/4		1		1-1/2		2		
		mm	in	mm	in	mm	in	mm	in	mm	in	
End to End	Class 150	L	108	4.25	117	4.61	127	5	165	6.5	178	7.01
	Class 300	L	140	5.51	152	5.98	165	6.50	190	7.48	216	8.50
	Class 600	L	165	6.50	190	7.48	216	8.50	241	9.49	292	11.50
Bore Diameter	d	10	0.39	12.2	0.48	18	0.71	29	1.14	37	1.46	
Center to Top (Open)	H	157	6.18	157	6.18	185	7.28	241	9.49	273	10.75	
Handwheel	W	100	3.94	100	3.94	120	4.72	160	6.30	220	8.66	



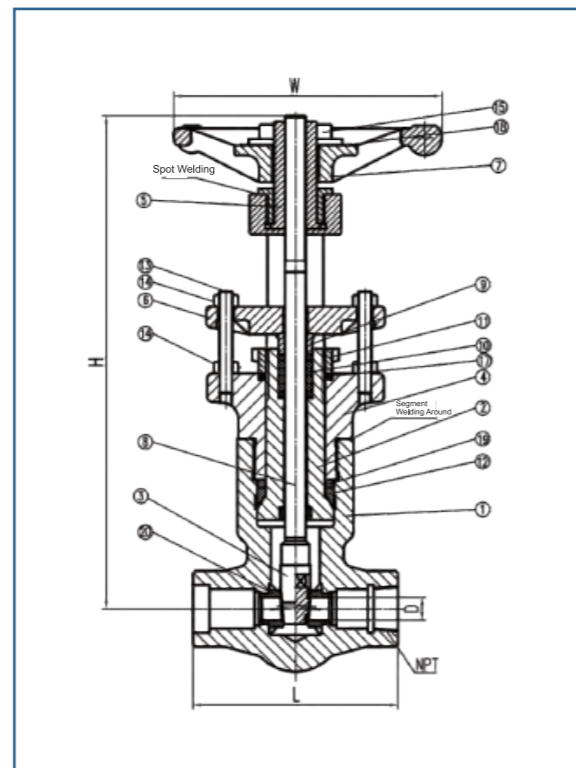
Bolted Bonnet



Welded Bonnet



Integral Flanged Ends



Pressure Seal Bonnet Connection

Material List

NO.	Description of Parts	Material		
		Standard	High Temperature	Stainless Steel
1	BODY	ASTM A105 N	ASTM A182-F11/F22	ASTM A182-F304/F316
2	BONNET	ASTM A105 N	ASTM A182-F11/F22	ASTM A182-F304/F316
3	WEDGE	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F304/F316
4	STEM NUT	ASTM A276-420	ASTM A276-420	ASTM A276-420
5	GLAND FLANGE	ASTMA216-WCB	ASTM A216-WCB	ASTM A351-CF8
6	HANDWHEEL	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
7	SEAT RING	ASTM A276-410/STL.OVERLAY	ASTM A276-410/STL.OVERLAY	ASTM A182-F304/F316/STL.6 OVERLAY
8	STEM	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F304/F316
9	GLAND	ASTM A276-420	ASTM A276-420	ASTM A276-304/316
10	GASKET	304SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE
11	PACKING	GRAPHITE	GRAPHITE	GRAPHITE
12	PACKING	CARBON YARN	CARBON YARN	CARBON YARN
13	HANDWHEEL NUT	CARBON STEEL	CARBON STEEL	ASTM A276-304
14	WASHER	ASTM A276-304	ASTM A276-304	ASTM A276-304
15	STUD	ASTM A193-B7	ASTM A193-B16	ASTM A193-B8
16	BOLT	ASTMA193-B8	ASTM A193-B8	ASTM A193-B8
17	NUT	ASTM A194-8	ASTM A194-8	ASTM A194-8
18	NAME PLATE	ASTM A276-304	ASTM A276-304	ASTM A276-304

Class 800 Welded Bonnet

Regular and Full Port - API602. Outside Screw & Yoke -Threaded and Socket Weld Ends

Regular Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2		2	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Full Port	Size	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	76	2.99	76	2.99	86	3.39	102	4.02	118	4.65	118	4.65	132	5.2
Bore Diameter	D	9.5	0.37	9.5	0.37	12.7	0.50	17.5	0.69	23.8	0.94	28.6	1.13	36.5	1.44
Center to Top (Open)	H	Welded Bonnet		157	6.19	157	6.19	165	6.51	192	7.57	272	10.70	277	10.92
Handwheel	W	90	3.54	90	3.54	90	3.54	110	4.33	150	5.91	150	5.91	150	5.91
Approx. Weight	Kg/Lb	1.5	3.31	1.5	3.31	2.0	4.41	3.0	6.61	4.0	8.82	5.5	12.13	7.5	16.53

Class 900/1500 Bolted Bonnet or Welded Bonnet

Regular and Full Port - API602. Outside Screw & Yoke -Threaded and Socket Weld Ends

Regular Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2		2	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Full Port	Size	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	90	3.54	90	3.54	104	4.09	120	4.72	130	5.12	130	5.12	150	5.91
Bore Diameter	D	6.5	0.26	6.5	0.37	12.7	0.50	16	0.63	22.5	0.89	27	1.06	35	1.38
Center to Top (Open)	H	Bolted Bonnet		163	6.41	163	6.41	190	7.47	225	8.85	263	10.33	264	10.41
		Welded Bonnet		177	6.98	177	6.98	206	8.09	240	9.44	271	10.66	276	10.86
Handwheel	W	90	3.54	90	3.54	110	4.33	150	5.91	150	5.91	150	5.91	180	7.09
Approx. Weight	Kg/Lb	2.5	5.51	2.5	5.51	3.5	7.72	5.5	12.13	8.0	17.64	8.5	18.74	14.5	31.97

Class 900/1500 Pressure Seal Bonnet

Regular and Full Port - API602. Outside Screw & Yoke -Threaded and Socket Weld Ends

Regular Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
		-	-	120	4.72	120	4.72	140	5.51	178	7.01	178	7.01	216	8.50
Bore Diameter	D	-	-	9.5	0.37	12.7	0.37	16	0.63	27	1.06	27	1.06	35	1.38
Center to Top (Open)	H	-	-	230	9.06	294	11.57	337.5	13.29	396.5	15.61	396.5	15.61	449	17.68
Handwheel	W	-	-	110	4.33	110	4.33	150	5.91	150	5.91	150	5.91	180	7.09
Approx. Weight	Kg/Lb	-	-	3.8	8.38	5.3	11.68	8.3	18.30	12.8	28.22	12.8	28.22	21.8	48.06

Class 2500 Welded Bonnet

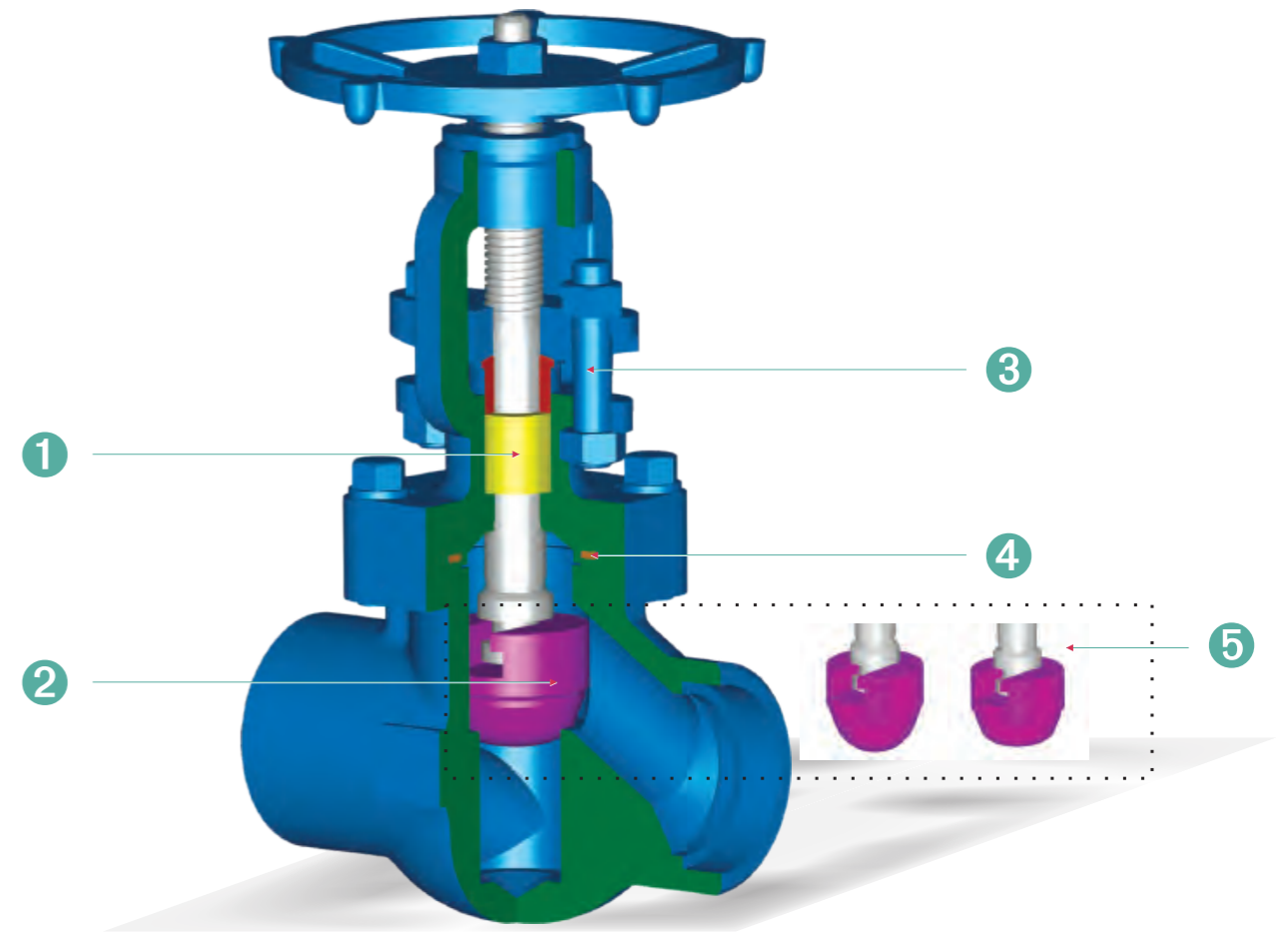
Regular and Full Port - ASME B16.34. Outside Screw & Yoke -Threaded and Socket Weld Ends

Regular Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
		-	-	178	7.01	178	7.01	186	7.32	232	9.13	232	9.13	279	10.98
Bore Diameter	D	-	-	9.0	0.35	12.0	0.47	15	0.59	27	1.06	27	1.06	35	1.38
Center to Top (Open)	H	-	-	295	11.61	295	11.61	345	13.58	410	16.14	410	16.14	460	18.11
Handwheel	W	-	-	150	5.91	150	5.91	180	7.09	250	9.84	250	9.84	350	13.78
Approx. Weight	Kg/Lb	-	-	8.0	17.64	8.0	17.64	11	24.25	20	44.09	20	44.09	25	55.12

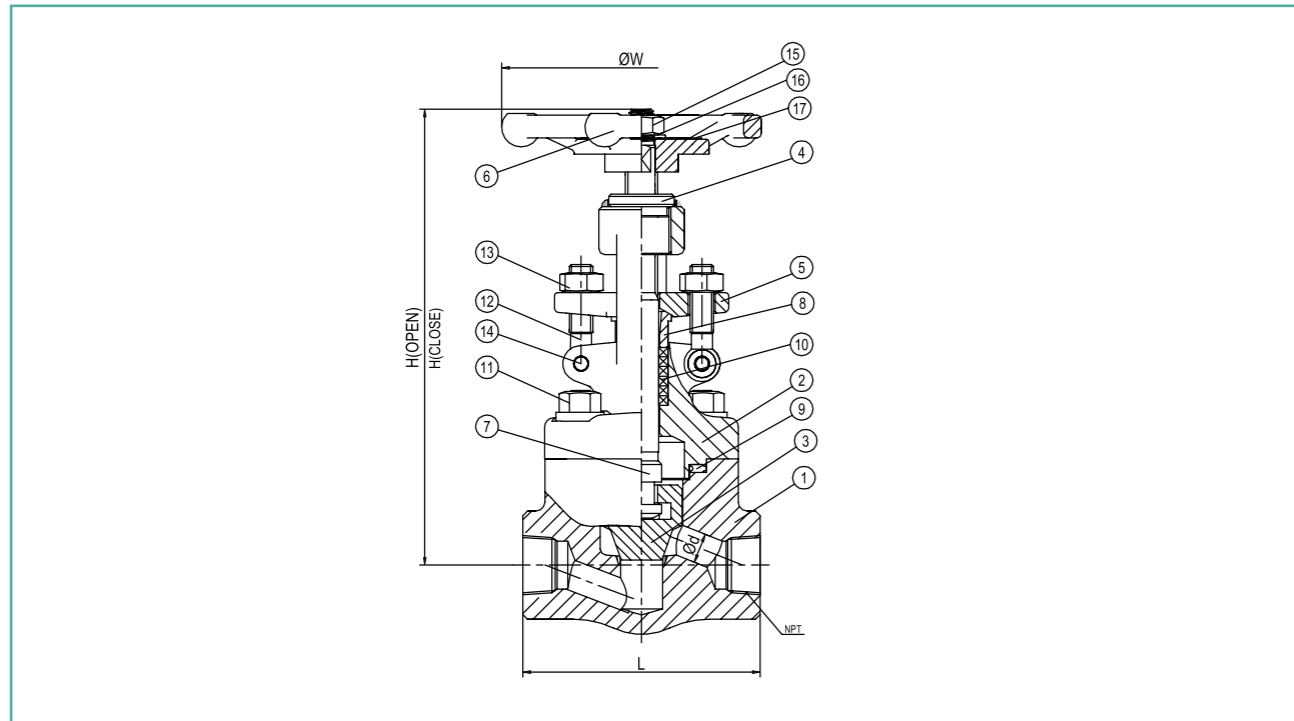
Class 2500 Pressure Seal Bonnet

Regular and Full Port - ASME B16.34. Outside Screw & Yoke -Threaded and Socket Weld Ends

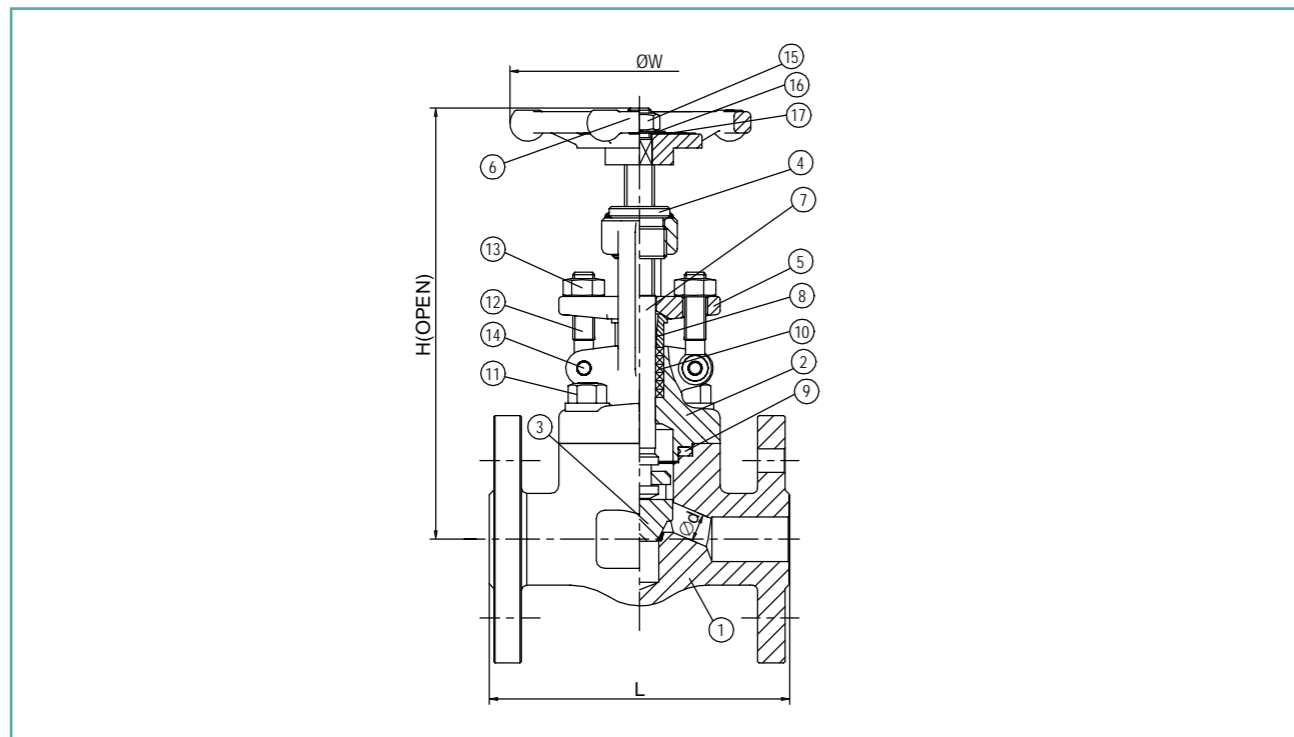
Regular Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
		-	-	178	7.01	178	7.01	186	7.32	232	9.13	232	9.13	279	10.98
Bore Diameter	D	-	-	9.0	0.35	12.0	0.47	15	0.59	27	1.06	27	1.06	35	1.38
Center to Top (Open)	H	-	-	383	15.08	383	15.08	406.5	16.00	454.5	17.89	454.5	17.89	540	21.26
Handwheel	W	-	-	150	5.91	150	5.91	180	7.09	250	9.84	250	9.84	350	13.78
Approx. Weight	Kg/Lb	-	-	8.0	22.05	10.0	22.05	13	28.66	21.8	48.06	21.8	48.06	28	61.73



- 1 A positive backseat, high quality packing material and improved stuffing box design ensure tighter stem seal.
- 2 Fully guided solid disc ensures perfect alignment of disc and seat and reduces wear on seating surfaces.
- 3 Stud and bolt arrangement facilitates packing maintenance.
- 4 Recessed Body-Bonnet Joint design captures the stainless steel spiral wound gasket ensuring body/bonnet sealing integrity.
- 5 Plug style discs are standard; others are available upon request.



Bolted Bonnet



Integral Flanged Ends

Material List

NO.	Description of Parts	Material		
		Standard	High Temperature	Stainless Steel
1	BODY	ASTM A105N/STL.6 OVERLAY	ASTM A182 F11/F22/STL.6 OVERLAY	ASTM A182 F304/F316/STL.6 OVERLAY
2	BONNET	ASTM A105N	ASTM A182 F11/F22	ASTM A182 F304/F316
3	DISC	ASTM A276 410	ASTM A276 410	ASTM A182 F304/F316
4	STEM NUT	ASTM A276 410	ASTM A276 410	ASTM A276-410
5	GLAND FLANGE	ASTM A105N	ASTM A105N	ASTM A182 F316
6	HANDWHEEL	ASTM A197	ASTM A197	ASTM A197
7	STEM	ASTM A276 410	ASTM A276 410	ASTM A182 F304/F316
8	GLAND	ASTM A276 420	ASTM A276 420	ASTM A276 316
9	GASKET	SPIRAL WOUND GRAPHITE/316L SS	SPIRAL WOUND GRAPHITE/316L SS	SPIRAL WOUND GRAPHITE/316L SS
10	PACKING	GRAPHITE	GRAPHITE	GRAPHITE
11	BOLT	ASTM A193-B7	ASTM A193-B16	ASTM A193-B8
12	STUD	ASTM A193-B7	ASTM A193-B16	ASTM A193-B8
13	NUT	ASTM A194-2H	ASTM A194-7	ASTM A194-8
14	PIN	ASTM A276 304	ASTM A276 304	ASTM A276 316
15	HANDWHEEL NUT	ASTM A194-2H	ASTM A194-7	ASTM A194-8
16	WASHER	ASTM A276-410	ASTM A276-410	ASTM A276-410
17	NAME PLATE	304SS	304SS	304SS

Class 800 Bolted Bonnet

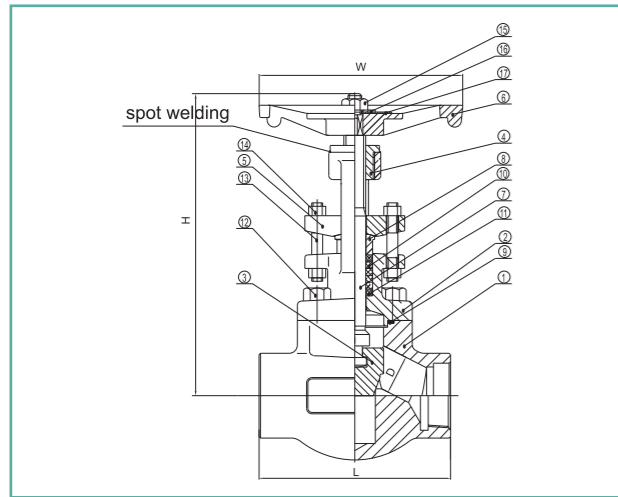
Regular and Full Port - API602. Outside Screw & Yoke -Threaded and Socket Weld Ends

Full Port	Size	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2		2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	d	6.8	0.27	6.8	0.27	9.5	0.37	13	0.51	18	0.69	23.5	0.93	28.5	1.12	36.5	1.44
Center to Top (Open)	H	161	6.34	161	6.34	167	6.57	167	6.57	196	7.72	236	9.29	252	9.92	282	11.10
Handwheel	W	100	3.94	100	3.94	100	3.94	100	3.94	120	4.72	160	6.30	160	6.30	220	8.66

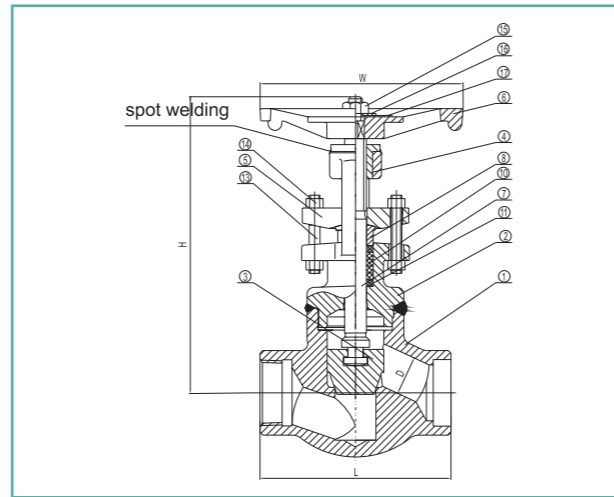
Class 150-300-600 Overall-end Flange, Bolted Bonnet, Structure Length-ASME B16.10

Regular Port -API 602. Outside Yoke & overall-end Flange -ASME B16.5

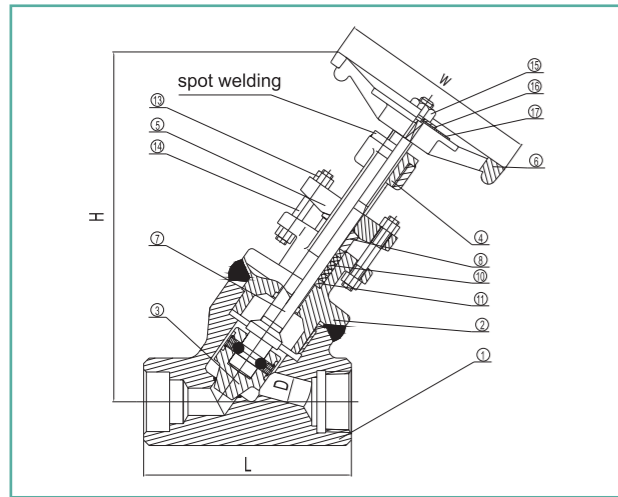
Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2		
End to End	Class 150	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	d	9.5	0.37	13	0.51	18	0.69	23.5	0.93	28.5	1.12	36.5	1.44	
Center to Top (Open)	H	167	6.57	167	6.57	196	7.72	236	9.29	252	9.92	282	11.10	
Handwheel	W	100	3.94	100	3.94	120	4.72	160	6.30	160	6.30	220	8.66	



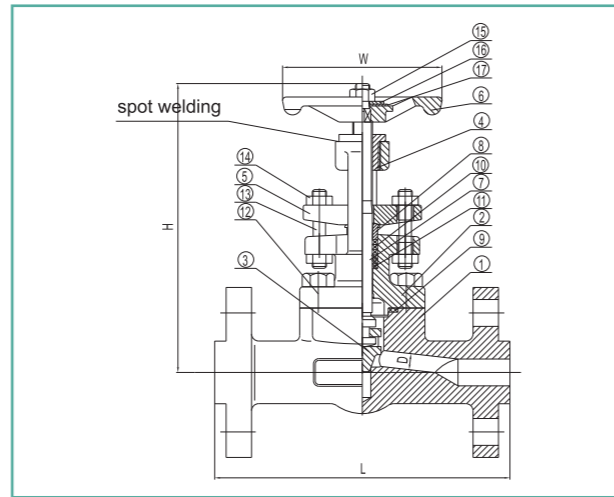
Bolted Bonnet



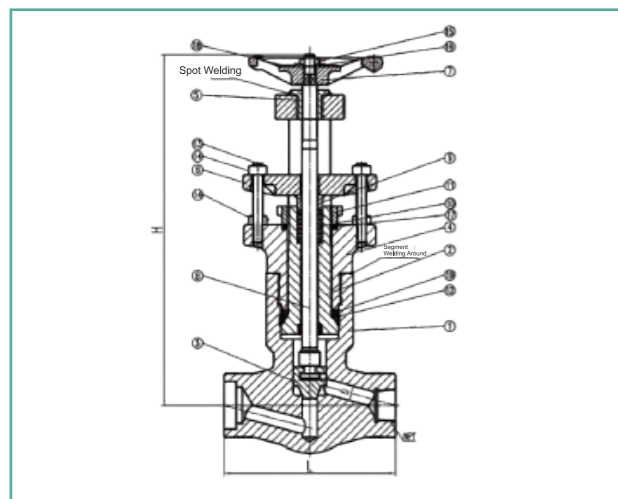
Welded Bonnet



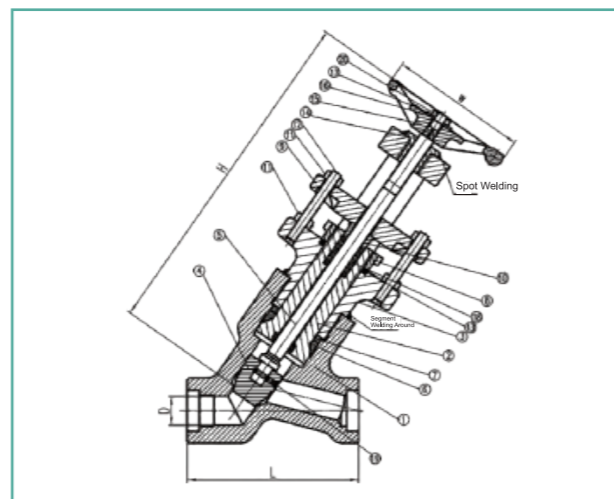
Y Pattern Welded Bonnet



Integral Flanged Ends



Pressure Seal Bonnet



Y-Pattern, Pressure Seal Bonnet

Material List

NO.	Description of Parts	Material		
		Standard	High Temperature	Stainless Steel
1	BODY	ASTM A105/STOVERLAY	ASTMA182-F11/F22/STL OVERLAY	ASTM A182-F304/F316/STL OVERLAY
2	BONNET	ASTMA105	ASTM A182-F11/F22	ASTM A182-F304/F316
3	DISC	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F304/F316
4	STEM NUT	ASTM A276-420	ASTM A276-420	ASTM A276-420
5	GLAND FLANGE	ASTM A216-WCB	ASTM A216-WCB	ASTM A351-CF8
6	HANDWHEEL	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
7	STEM	ASTMA182-F6a	ASTM A182-F6a	ASTM A182-F304/F316
8	GLAND	ASTM A276-420	ASTM A276-420	ASTM A276-304/316L
9	GASKET	304SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE
10	PACKING	GRAPHITE	GRAPHITE	GRAPHITE
11	PACKING	CARBON YARN	CARBON YARN	CARBON YARN
12	STUD	ASTM A193-B7	ASTMA193-B16	ASTM A193-B8
13	BOLT	ASTM A193-B8	ASTM A193-B8	ASTMA193-B8
14	NUT	ASTM A194-8	ASTM A194-8	ASTM A194-8
15	HANDWHEEL NUT	CARBON STEEL	CARBON STEEL	ASTM A276-304
16	HANDWHEEL WASHER	CARBON STEEL	CARBON STEEL	ASTM A276-304
17	NAME PLATE	ASTM A276-304	ASTM A276-304	ASTM A240-304

Class 800 Welded Bonnet

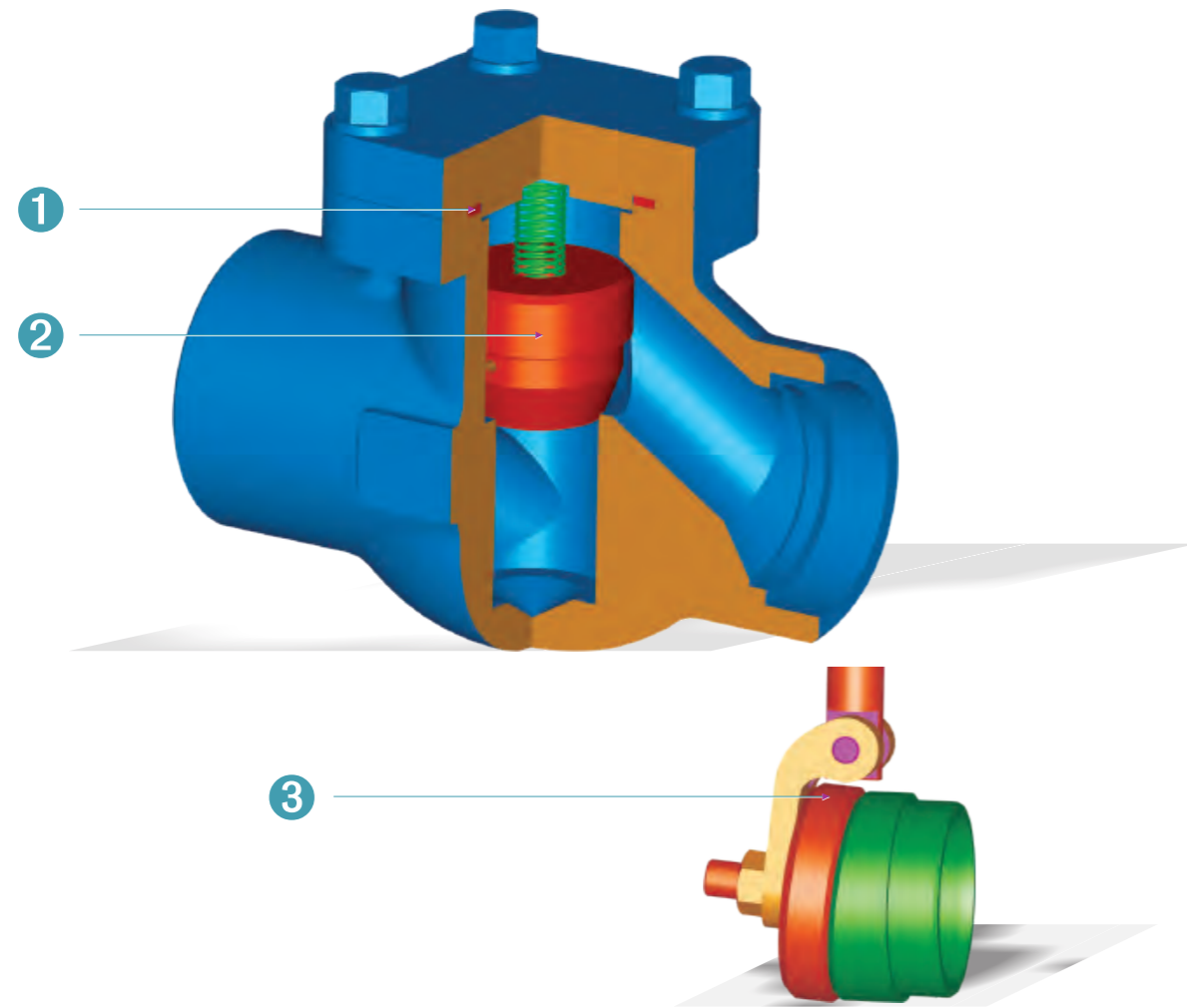
Regular and Full Port - API602. Outside Screw & Yoke - Threaded and Socket Weld Ends

Regular Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2		2		
Full Port	Size	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2		
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
Bore Diameter	D	6.5	0.26	9.5	0.37	12.7	0.50	17.5	0.69	23.0	0.91	28.6	1.13	36.5	1.44	
Center to Top (Open)	H	Welded Bonnet	150.8	5.94	150.8	5.94	166.8	6.57	206.3	8.12	270.3	10.64	281.3	11.07	350.3	13.79
Handwheel	W	90	3.54	90	3.54	90	3.54	110	4.33	150	5.91	150	5.91	150	5.91	
Approx. Weight	Kg/Lb	2.0	4.41	2.0	4.41	2.5	5.51	3.5	7.72	7.0	15.43	7.0	15.43	10.5	23.15	

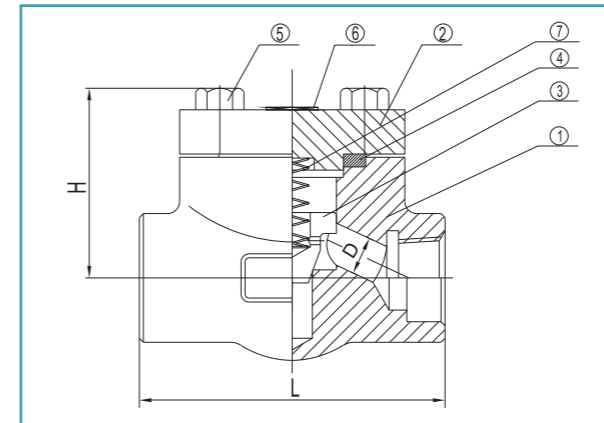
Class 900/1500 Bolted Bonnet or Welded Bonnet

Regular and Full Port - API602. Outside Screw & Yoke - Threaded and Socket Weld Ends

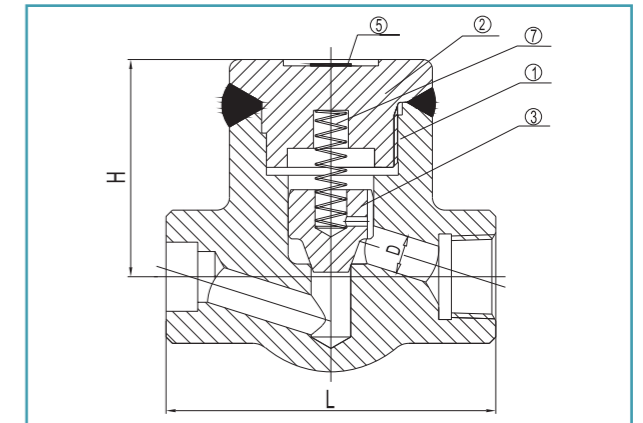
Regular Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2		2		
Full Port	Size	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2		
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
Bore Diameter	D	8.0	0.31	9.0	0.35	12.0	0.47	15	0.59	21	0.83	27	1.06	32	1.26	
	H	Bolted Bonnet	165.7	6.52	165.7	6.52	191.8	7.55	226.8	8.93	278.3	10.96	280.3	11.04	312.3	12.30
	H	Welded Bonnet	179.7	7.07	179.7	7.07	207.3	8.16	239.7	9.44	281.8	11.09	285.8	11.25	316.3	12.45
Handwheel	W	90	3.54	90	3.54	110	4.33	150	5.91	150	5.91	180	7.09	180	7.09	
Approx. Weight	Kg/Lb	2.5	5.51	2.5	5.51	3.0	6.61	5.5	12.13	8.5	18.74	8.5	18.74	14.5	31.97	



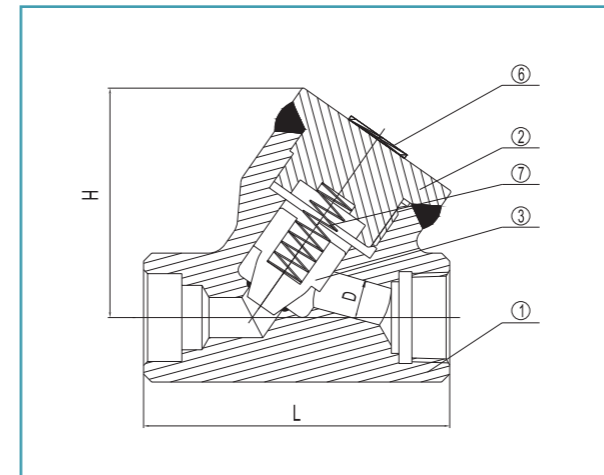
- 1 Recessed Body-Bonnet Joint design captures the stainless steel spiral wound gasket ensuring body/bonnet sealing integrity.
- 2 Body guided disc to ensure perfect alignment of disc and seat even under large flow conditions and high velocity.
- 3 Piston type are standard, swing disc style available are available upon request.



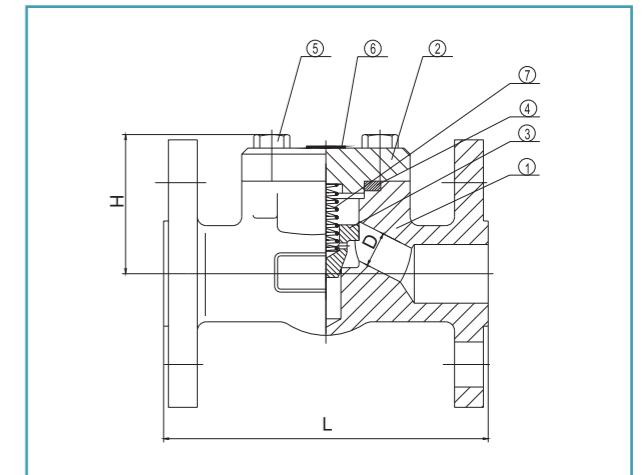
Bolted Cover



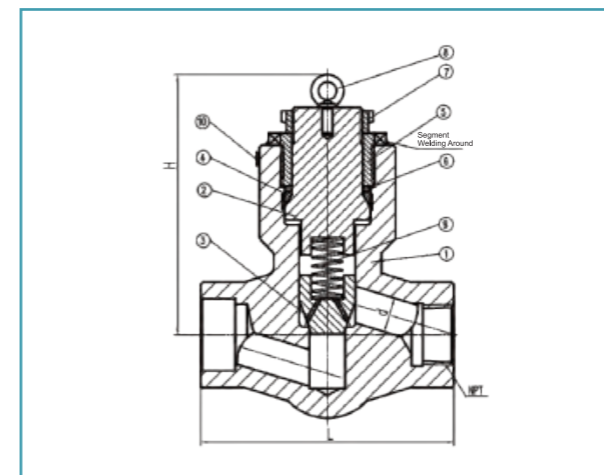
Welded Cover



Y Pattern Welded Cover



Integral Flanged Ends



Pressure Seal Bonnet Connection

Material List

NO.	Description of Parts	Material		
		Standard	High Temperature	Stainless Steel
1	BODY	ASTM A105/STL OVERLAY	ASTM A182-F11/F22/STL OVERLAY	ASTM A182-F304/F316/STL OVERLAY
2	BONNET	ASTM A105	ASTM A182-F11/F22	ASTM A182-F304/F316
3	DISC	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F304/F316
4	GASKET	304 SPIRAL WOUND GRAPHITE	304 SPIRAL WOUND GRAPHITE	304/316 SPIRAL WOUND GRAPHITE
5	STUD	ASTM A193-B7	ASTM A193-B16	ASTM A193-B8
6	NAME PLATE	ASTM A276 304	ASTM A276 304	ASTM A276 304
7	SPRING	ASTM A276 316	ASTM A276-316	ASTM A276-316

Class 800 Bolted Cover or Welded Cover

Regular and Full Port - API602. Outside Screw & Yoke -Threaded and Socket Weld Ends

Regular Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	D	76	2.99	76	2.99	86	3.39	102	4.02	140	5.51	140	5.51	170	6.69
Center to Top (Open)	H	6.5	0.26	9.5	0.37	12.7	0.50	17.5	0.69	23	0.91	28.6	1.13	36.5	1.44
Approx. Weight	Kg/Lb	48	1.89	48	1.89	53	2.09	64	2.52	80	3.15	80	3.15	100	3.94

Class 900-1500 Bolted Cover or Welded Cover

Regular and Full Port - API602. Outside Screw & Yoke -Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	D	90	3.54	104	4.09	120	4.72	150	5.91	150	5.91	180	7.09
Center to Top (Open)	H	9	0.35	12	0.47	15	0.59	21	0.83	27	1.06	32	1.26
Approx. Weight	Kg/Lb	56	2.20	62	2.44	72	2.83	92.5	3.64	92.5	3.64	111	4.37

Class 900-1500 Pressure Seal Bonnet

Regular and Full Port - API602. Outside Screw & Yoke -Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	D	120	4.72	120	4.72	140	5.51	165	6.50	186	7.32	232	9.13
Center to Top (Open)	H	9	0.35	12	0.47	15	0.59	21	0.83	27	1.06	30	1.18
Approx. Weight	Kg/Lb	188	7.40	188	7.40	196	7.72	220	8.66	220	8.66	238	9.37

Class 2500 Welded Cover

Regular and Full Port - ASME B16.34. Outside Screw & Yoke -Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	D	9	0.35	12	0.47	15	0.59	-	-	27	1.06	27	1.06
Center to Top (Open)	H	90	3.54	100	3.94	115	4.53	-	-	140	5.51	160	6.30
Approx. Weight	Kg/Lb	3.5	7.72	5.5	12.13	10.5	23.15	-	-	18.5	40.79	25	55.12

Class 2500 Pressure Seal Bonnet

Regular and Full Port - ASME B16.34. Outside Screw & Yoke -Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	D	120	4.72	140	5.51	186	7.32	-	-	232	9.13	279	10.98
Center to Top (Open)	H	9	0.35	12	0.47	15	0.59	-	-	27	1.06	27	1.06
Approx. Weight	Kg/Lb	172	6.77	195	7.68	214	8.43	-	-	241	9.49	260	10.24

Class 800 Y Pattern Welded Bonnet

Full Port - API602. Outside Screw & Yoke -Threaded and Socket Weld Ends

Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2		2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	D	80	3.15	80	3.15	90	3.54	110	4.33	125	4.92	155	6.10	180	7.09
Center to Top (Open)	H	9.5	0.37	12	0.47	17	0.67	23	0.91	28	1.10	36	1.42	44	1.73
Approx. Weight	Kg/Lb	68.5	2.70	68.5	2.70	78.5	3.09	89.5	3.52	105.5	4.15	123.5	4.86	147.5	5.81

Class 900-1500 Y Pattern Welded Bonnet

Full Port - API602. Outside Screw & Yoke -Threaded and Socket Weld Ends

Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2		2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	D	80	3.15	90	3.54	110	4.33	125	4.92	155	6.10	180	7.09	200	7.87
Center to Top (Open)	H	9.5	0.37	12	0.47	15	0.59	21	0.83	27	1.06	32	1.26	38	1.50
Approx. Weight	Kg/Lb	71.8	2.83	82.5	3.25	84.2	3.31	104.7	4.12	121.7	4.79	143.3	5.64	155.2	6.11

Class 150-300-600 Overall-end Flange, Bolted Bonnet, Structure Length-ASME B16.10

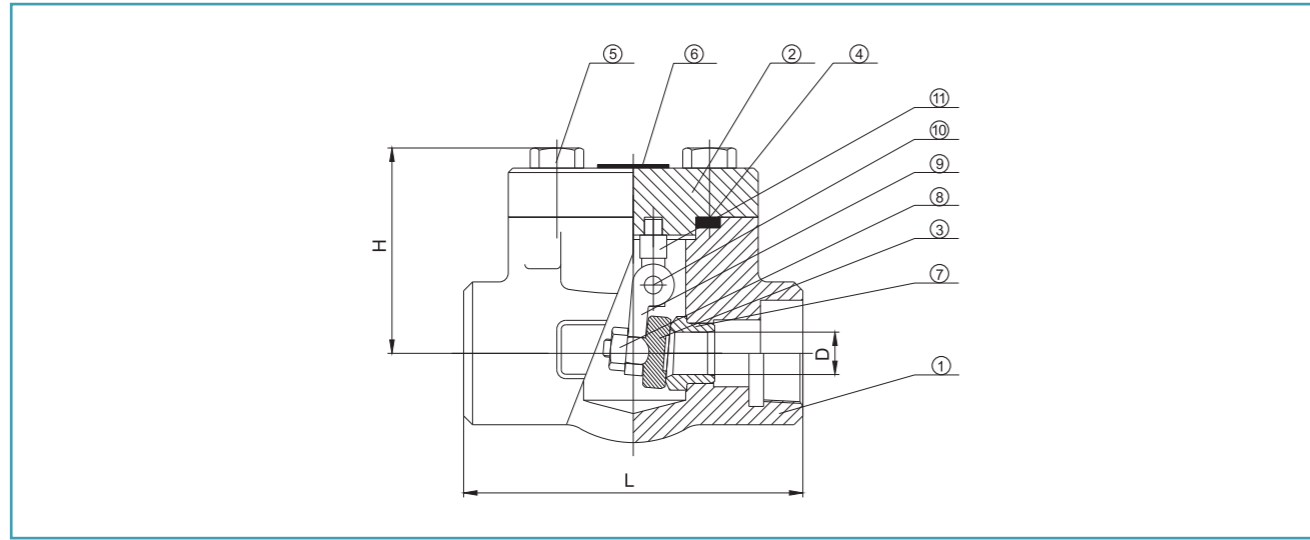
Regular Port - API 602. Overall-end Flange -ASME B16.5

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	D	108	4.25	117	4.61	127	5	140	5.51	165	6.50	203	7.99
Center to Top (Open)	H	152	5.98	178	7.01	203	7.99	-	-	229	9.02	267	10.51
Approx. Weight	Kg/Lb	165	6.50	190	7.48	216	8.50	-	-	241	9.49	292	11.50

Class 900-1500 Overall-end Flange, Bolted Bonnet, Structure Length-ASME B16.10

Regular Port - API 602. Overall-end Flange -ASME B16.5

Regular Port	Size	1/2		3/4		1		1-1/2		2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	D	216	8.50	229	9.02	254	10	305	12.01	368	14.49
Center to Top (Open)	H	9	0.35	12	0.47	15	0.59	27	1.06	32	1.26
Approx. Weight	Kg/Lb	53	2.09	60	2.36	70	2.76	86	3.39	105	4.13



Bolted Cover

Material List

NO.	Description of Parts	Material		
		Standard	High Temperature	Stainless Steel
1	BODY	ASTMA105	ASTM A182-F11/F22	ASTMA182-F304/F316
2	BONNET	ASTMA105	ASTM A182-F11/F22	ASTM A182-F304/F316
3	DISC	ASTMA182-F6a	ASTM A182-F6a	ASTM A182-F304/F316
4	GASKET	304SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE
5	STUD	ASTM A193-B7	ASTM A193-B16	ASTM A193-B8
6	NAME PLATE	ASTM A240 304	ASTM A240-304	ASTM A240-304
7	SEAT RING	ASTM A276-410/STLOVERLAY	ASTM A276-410/STLOVERLAY	ASTM A182-F304/F316/STL OVERLAY
8	DISC NUT	ASTM A276-304	ASTM A276-304	ASTM A276-304/316
9	HINGE	ASTM A216-WCB	ASTM A217-WC6/WC9	ASTM A351-CF8/CF8M
10	HINGE PIN	ASTM A276-410	ASTM A276-410	ASTM A276-F304/316
11	SUPPORT	ASTM A105	ASTM A182-F11/F22	ASTM A182-F304/F316

Class 800 Bolted Bonnet

Regular and Full Port-API602. Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
		76	2.99	86	3.39	102	4.02	118	4.65	118	4.65	132	5.20
Bore Diameter	D	9.5	0.37	12.7	0.50	17.5	0.69	23.8	0.94	28.6	1.13	36.5	1.44
Center to Top (Open)	H	48.5	1.91	52	2.05	67	2.64	88	3.46	88	3.46	101	3.98
Approx. Weight	Kg/Lb	1.5	3.31	2.3	5.07	2.8	6.17	4.0	8.82	5.7	12.57	7.7	16.98

Class 900-1500 Bolted Bonnet

Regular and Full Port-API602. Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
		90	3.54	104	4.09	120	4.72	130	5.12	130	5.12	150	5.91
Bore Diameter	D	9.5	0.37	12.7	0.50	16	0.63	27	1.06	27	1.06	35	1.38
Center to Top (Open)	H	57.5	2.26	66	2.60	78.5	3.09	106	4.17	106	4.17	129	5.08
Approx. Weight	Kg/Lb	1.8	3.97	2.5	5.51	3.8	8.38	6.5	14.33	6.5	14.33	10	22.05

Class 150-300-600 Overall-end Flange, Bolted Bonnet, Structure Length-ASME B16.10

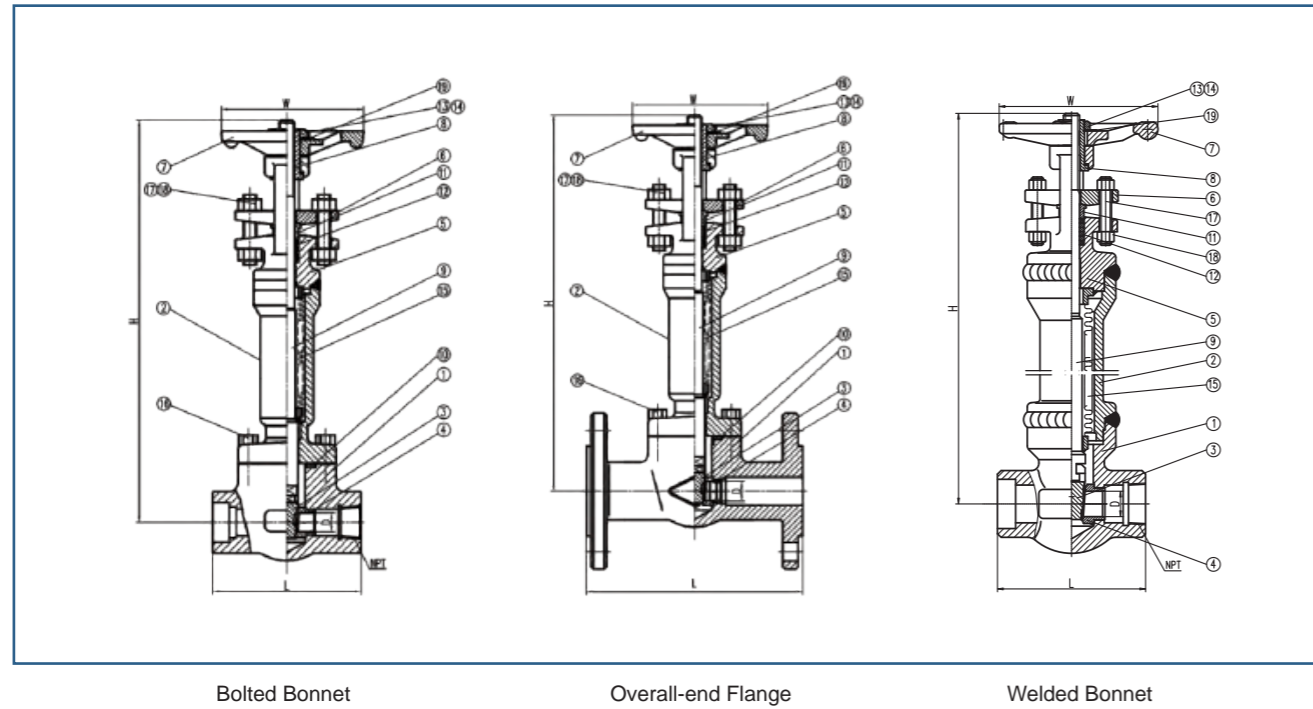
Regular Port-API 602. Overall-end Flange -ASME B16.5

Regular Port	Size	1/2		3/4		1		1-1/2		2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in
		Class 150	108	4.25	117	4.61	127	5.00	165	6.50	203
Class 300	152	5.98	178	7.01	216	8.50	241	9.49	267	10.51	
Class 600	165	6.50	190	7.48	216	8.50	241	9.49	292	11.50	
Bore Diameter	D	9.50	0.37	12.7	0.50	17.5	0.69	28.6	1.13	36.5	1.44
Center to Top (Open)	H	48.5	1.91	52	2.05	67	2.64	88	3.46	101	3.98
Approx. Weight	Class 150	2.5	5.51	3.3	7.28	4.3	9.48	9.0	19.84	13	28.66
	Class 300	3.0	6.61	3.8	8.38	5.2	11.46	10.5	23.15	15	33.07
	Class 600	3.5	7.72	4.5	9.92	6	13.23	12	26.46	17	37.48

Class 2500 Welded Bonnet

Regular and Full Port-ASME B16.34. Outside Screw & Yoke-Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/2		2	
Full Port	Size	3/8		1/2		3/4		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in
		178	7.01	178	7.01	186	7.32	232	9.13	279	10.98
Bore Diameter	D	9.0	0.35	12.0	0.47	15	0.59	27	1.06	34.5	1.36
Center to Top (Open)	H	81	3.19	81	3.19	94	3.70	158	6.22	180	7.09
Approx. Weight	Kg/Lb	4.5	9.92	7.5	16.53	8.0	17.64	15	33.07	19.5	42.99



Material List

NO.	Description of Parts	Material		
		Standard	High Temperature	Stainless Steel
1	BODY	ASTM A105N	ASTM A182 F11/F22	ASTM A182 F304/F316
2	BONNET	ASTMA105N	ASTM A182 F11/F22	ASTM A182 F304/F316
3	WEDGE	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304/F316
4	SEAT RING	ASTM A276-410/STL.OVERLAY	ASTM A276-410/STL.OVERLAY	ASTM A182 F304/F316/STL.OVERLAY
5	YOKE	ASTM A105N	ASTM A182 F11/F22	ASTM A182 F304/F316
6	GLAND FLANGE	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8
7	HANDWHEEL	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
8	STEM NUT	ASTM A276 420	ASTM A276 420	ASTM A276 420
9	STEM	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304/F316
10	GASKET	304SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE
11	GLAND	ASTM A276 420	ASTM A276 420	ASTM A276 304/316
12	PACKING	GRAPHITE	GRAPHITE	DUCTILE IRON
13	HANDWHEEL NUT	CARBON STEEL	CARBON STEEL	ASTM A276 304
14	WASHER	ASTM A276 304	ASTM A276 304	ASTM A276 304
15	BELLOWS	ASTM A276 316Ti	ASTM A276 316Ti	ASTM A276 316Ti
16	STUD	ASTM A193 B7	ASTM A193 B16	ASTM A193 B8
17	STUD	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8
18	NUT	ASTM A194 8	ASTM A194 8	ASTMA194 8
19	NAME PLATE	ASTM A276 304	ASTM A276 304	ASTM A276 304

Class 800 Bolted Bonnet or Welded Bonnet

Regular and Full Port-AP1602. Outside Screw & Yoke-Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2		
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2		
End to End	L	76	2.99	86	3.39	102	4.02	118	4.65	118	4.65	132	5.20	
Bore Diameter	D	9.5	0.37	12.7	0.50	17.5	0.69	23.8	0.94	28.6	1.13	36.5	1.44	
Center to Top (Open)	H	Bolted Bonnet	329.2	12.96	353.7	13.93	425.5	16.75	577.4	22.73	577.4	22.73	712.1	28.04
		Welded Bonnet	289.2	11.39	319.8	12.59	372.7	14.67	533.3	21.00	533.3	21.00	700	27.56
Handwheel	W	90	3.54	90	3.54	110	4.33	150	5.91	150	5.91	150	5.91	
Approx. Weight	Kg/Lb	3.5	7.72	4.0	8.82	5.5	12.13	8.5	18.74	8.5	18.74	16	35.27	

Class 900/1500 Welded Bonnet

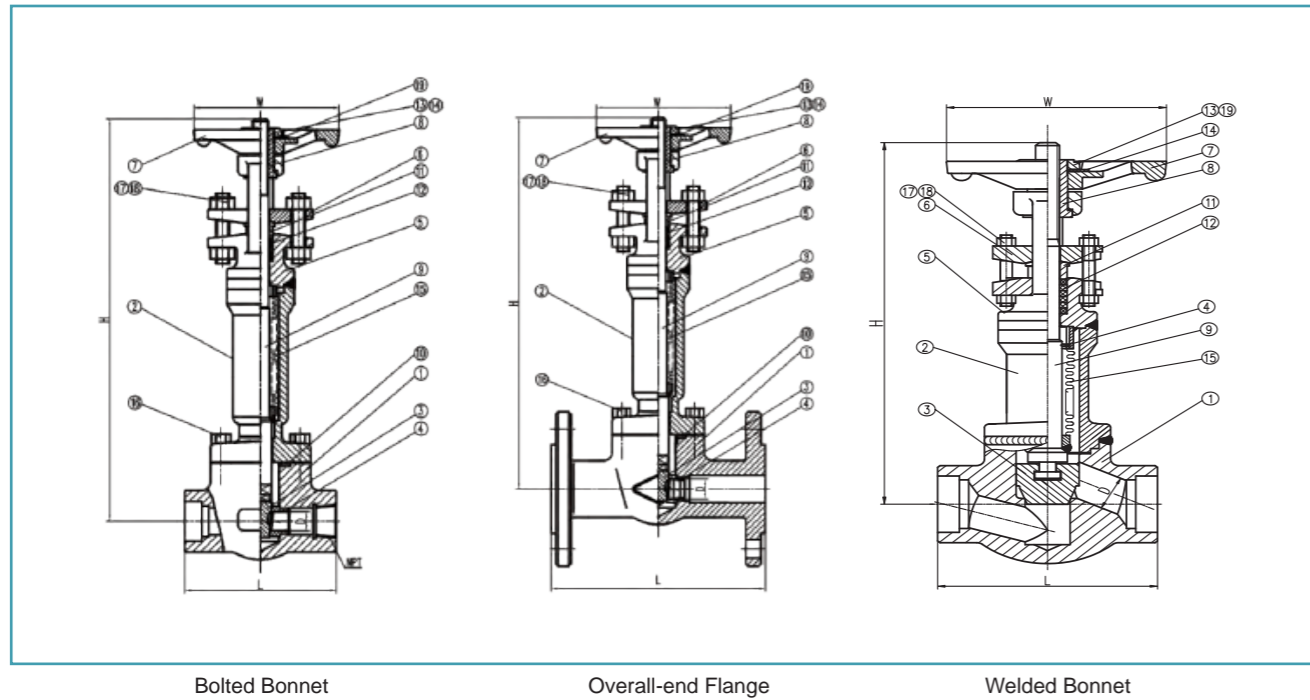
Regular and Full Port-AP1602. Outside Screw & Yoke-Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	90	3.54	104	4.09	120	4.72	130	5.12	130	5.12	150	5.91
Bore Diameter	D	9.5	0.37	12.7	0.50	16	0.63	22.5	0.89	27	1.06	35	1.38
Center to Top (Open)	H	300	11.81	320	12.60	380	14.96	530	20.87	530	20.87	580	22.83
Handwheel	W	90	3.54	110	4.33	150	5.91	150	5.91	150	5.91	180	7.09
Approx. Weight	Kg/Lb	5	11.02	7.5	16.53	11.5	25.35	19	41.89	19	41.89	30	66.14

Class 150-300-600 Overall-end Flange, Bolted Bonnet, Structure Length-ASME B16.10

Regular Port-API 602. Outside Yoke & Overall-end Flange-ASME B16.5

Regular Port	Size	1/2		3/4		1		1-1/2		2		
		mm	in	mm	in	mm	in	mm	in	mm	in	
End to End	Class 150	L	108	4.25	117	4.61	127	5	165	6.50	178	7.01
	Class 300	L	140	5.51	152	5.98	165	6.50	190	7.48	216	8.50
	Class 600	L	165	6.50	190	7.48	216	8.50	241	9.49	292	11.50
Bore Diameter	D	9.50	0.37	12.7	0.50	17.5	0.69	28.6	1.13	36.5	1.44	
Center to Top (Open)	H	145.5	5.73	151.8	5.98	179.7	7.07	247	9.72	268.7	10.58	
Handwheel	W	90	3.54	90	3.54	110	4.33	150	5.91	150	5.91	
Approx. Weight	Class 150		3	6.61	3.8	8.38	4.8	10.58	10	22.05	15	33.07
	Class 300	Kg/Lb	3.4	7.50	4.5	9.92	5.7	12.57	11.5	25.35	17	37.48
	Class 600		4	8.82	5.2	11.46	6.6	14.55	12.7	28.00	18	39.68



Material List

NO.	Description of Parts	Material		
		Standard	High Temperature	Stainless Steel
1	BODY	ASTM A105NSTL.OVERLAY	ASTMA182 F11/F22/STOVERLAY	ASTM A182 F304/F316/STL.OVERLAY
2	BONNET	ASTM A105N	ASTM A182 F11/F22	ASTM A182 F304/F316
3	DISC	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304/F316
4	PIN	ASTM A276 304	ASTM A276 304	ASTM A276 304
5	YOKE	ASTMA105N	ASTM A182 F11/F22	ASTM A182 F304/F316
6	GLAND FLANGE	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8
7	HANDWHEEL	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
8	STEM NUT	ASTM A276 420	ASTM A276 420	ASTM A276 420
9	STEM	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304/F316
10	GASKET	304SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE
11	GLAND	ASTM A276 420	ASTM A276 420	ASTM A276 304/316
12	PACKING	GRAPHITE	GRAPHITE	DUCTILE IRON
13	HANDWHEEL NUT	CARBON STEEL	CARBON STEEL	ASTM A276 304
14	WASHER	ASTM A276 304	ASTM A276 304	ASTM A276 304
15	BELLOWS	ASTM A276 316Ti	ASTM A276 316Ti	ASTM A276 316Ti
16	STUD	ASTM A193 B7	ASTM A193 B16	ASTM A193 B8
17	STUD	ASTM A193 B8	ASTM A193 B8	ASTMA193 B8
18	NUT	ASTM A194 8	ASTM A194 8	ASTM A194 8
19	NAME PLATE	ASTM A276 304	ASTM A276 304	ASTM A276 304

Class 800 Bolted Bonnet or Welded Bonnet

Regular and Full Port-API602. Outside Screw & Yoke-Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
		76	2.99	86	3.39	102	3.39	140	5.51	140	5.51	170	6.69
Bore Diameter	D	9.5	0.37	12.7	0.50	17.5	0.50	23	0.91	28.6	1.13	36.5	1.44
Center to Top (Open)	H	Bolted Bonnet 356.1	14.02	363.5	14.31	416.3	14.31	506.3	19.93	506.3	19.93	599.2	23.59
		Welded Bonnet 311.7	12.27	353.5	13.92	363.8	13.92	464.8	18.30	452.3	17.81	563.8	22.20
Handwheel	W	110	4.33	110	4.33	110	4.33	150	5.91	150	5.91	180	7.09
Approx. Weight	Kg/Lb	3.5	7.72	4.5	9.92	5.5	9.92	11	24.25	11	24.25	17.5	38.58

Class 900/1500 Welded Bonnet

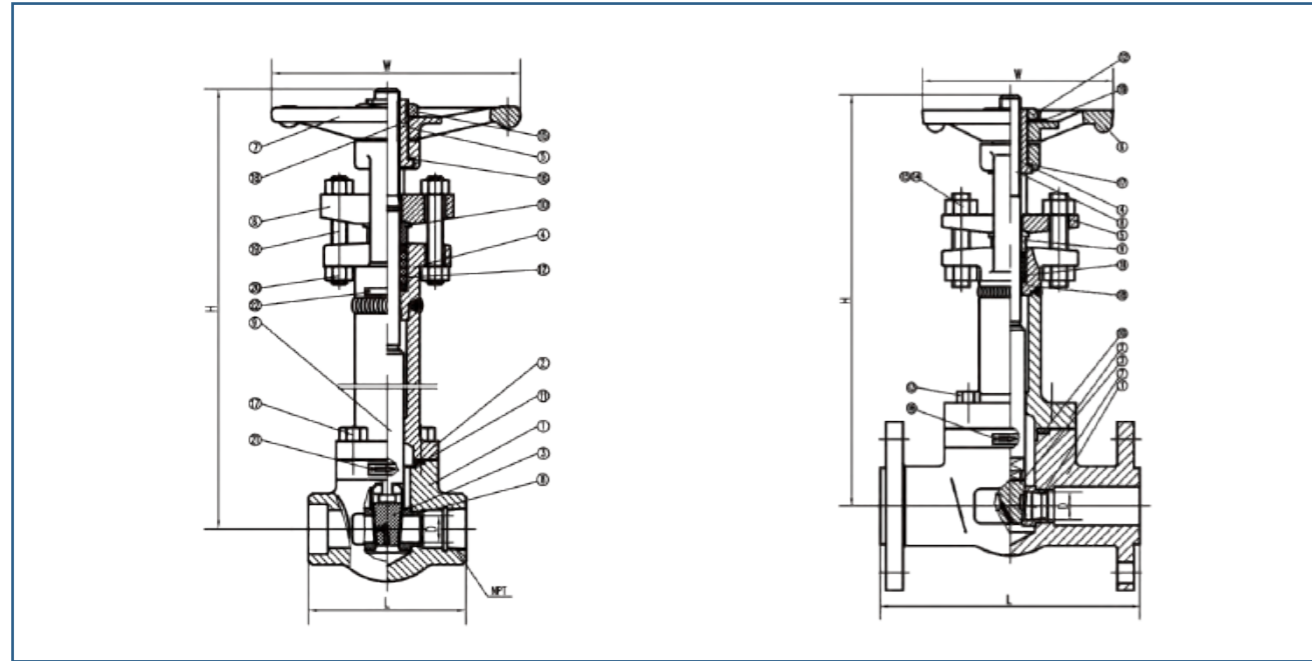
Regular and Full Port-API602. Outside Screw & Yoke-Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
		90	3.54	104	4.09	120	4.72	150	5.91	150	5.91	180	7.09
Bore Diameter	D	9.0	0.35	12.0	0.47	15.0	0.59	27	1.06	27	1.06	32	1.26
Center to Top (Open)	H	356.7	14.04	434.8	17.12	482.7	19.00	587.8	23.14	587.8	23.14	630	24.80
Handwheel	W	90	3.54	110	4.33	150	5.91	180	7.09	180	7.09	250	9.84
Approx. Weight	Kg/Lb	5.5	12.13	7.5	16.53	11.5	25.35	19	41.89	19	41.89	32	70.55

Class 150-300-600 Overall-end Flange, Bolted Bonnet, Structure Length-ASME B16.10

Regular Port-API 602. Outside Yoke & Overall-end Flange-ASME B16.5

Regular Port	Size	1/2		3/4		1		1-1/2		2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in
Class 150	L	108	4.25	117	4.61	127	5.00	165	6.50	203	7.99
Class 300	L	152	5.98	178	7.01	203	7.99	229	9.02	267	10.51
Class 600	L	165	6.50	190	7.48	216	8.50	241	9.49	292	11.50
Bore Diameter	D	9.50	0.37	12.7	0.50	17.5	0.69	28.6	1.13	36.5	1.44
Center to Top (Open)	H	356.1	14.02	363.5	14.31	416.3	16.39	506.3	19.93	599.2	23.59
Handwheel	W	110	4.33	110	4.33	110	4.33	150	5.91	180	7.09
Approx. Weight	Kg/Lb	Class 150 5.5	12.13	6.0	13.23	8.5	18.74	14	30.86	21.5	47.40
		Class 300 6.0	13.23	7.0	15.43	10.5	23.15	17	37.48	25	55.12
		Class 600 6.5	14.33	7.5	16.53	11	24.25	18.5	40.79	26.5	58.42



Bolted Bonnet

Overall-end Flange

Material List

NO.	Description of Parts	Material
		Stainless Steel
1	BODY	ASTM A182 F304/ F316
2	BONNET	ASTM A182 F304 /F316
3	BODY	ASTM A182 F304/ F316/ STL.OVERLAY
4	SEAT RING	ASTM A182 F304/F316/STL.OVERLAY
5	YOKE	ASTM A182 F304/F316/STL.OVERLAY
6	GLAND FLANGE	ASTM A351 CF8
7	HANDWHEEL	DUCTILE IRON
8	STEM NUT	BRONZE
9	STEM	ASTM A182 F304/F316
10	GASKET	304 /316SS /SPIRAL WOUND GRAPHITE
11	GLAND	ASTM A276 304 /316
12	PACKING	DUCTILE IRON
13	HANDWHEEL NUT	ASTM A276 304
14	WASHER	ASTM A276 304
15	WASHER	ASTM A276 304
16	BOLT	ASTM A320 B8 CL2
17	STUD	ASTM A193 B8
18	NUT	ASTM A194 8
19	NAME PLATE	ASTM A276 304
20	DIRECTION SIGN	ASTM A276 304

Class 800 Bolted Bonnet

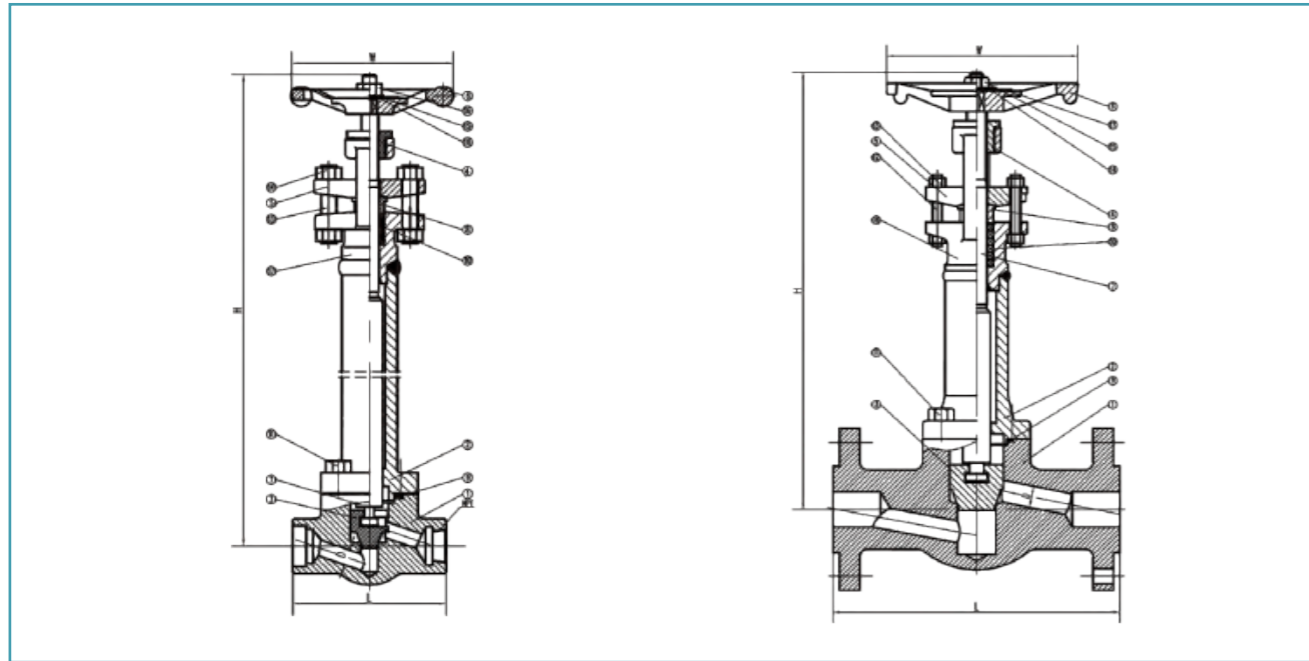
Regular and Full Port-API1602. Outside Screw & Yoke-Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter	D	9.5	0.37	12.7	0.50	17.5	0.69	23.8	0.94	28.6	1.13	36.5	1.44
Center to Top (Open)	H	403	15.87	428	16.85	470.5	18.52	499.3	19.66	503.4	19.82	549.6	21.64
Handwheel	W	90	3.54	110	4.33	150	5.91	150	5.91	150	5.91	180	7.09
Approx. Weight	Kg/Lb	3	6.61	3.7	8.16	5.3	11.68	8.5	18.74	8.5	18.74	10.8	23.81

Class 150-300-600 Overall-end Flange, Bolted Bonnet, Structure Length-ASME B16.10

Regular Port-API 602. Outside Yoke & Overall-end Flange-ASME B16.5

Regular Port	Size	1/2		3/4		1		1-1/2		2		
End to End	Class	L	mm	in	mm	in	mm	in	mm	in	mm	in
Bore Diameter		D	9.50	0.37	12.7	0.50	17.5	0.69	28.6	1.13	36.5	1.44
Center to Top (Open)		H	403	15.87	428	16.85	470.5	18.52	503.4	19.82	549.6	21.64
Handwheel		W	90	3.54	110	4.33	150	5.91	150	5.91	180	7.09
Approx. Weight	Class 150		4.5	9.92	5.5	12.13	7	15.43	13	28.66	18.5	40.79
	Class 300	Kg/Lb	5	11.02	6.2	13.67	8	17.64	12.5	27.56	20.5	45.19
	Class 600		5.6	12.35	7	15.43	9	19.84	15.5	34.17	21.5	47.40



Bolted Bonnet

Overall-end Flange

Material List

NO.	Description of Parts	Material
		Stainless Steel
1	BODY	ASTM A182 F304 /F316/STL.OVERLAY
2	BONNET	ASTM A182 F304 /F316
3	DISC	ASTM A182 F304 /F316/STL.OVERLAY
4	STEM NUT	BRONZE
5	YOKE	ASTM A182 F304 /F316/STL.OVERLAY
6	GLAND FLANGE	ASTM A351 CF8
7	HANDWHEEL	DUCTILE IRON
8	GLAND	ASTM A276 304/316
9	STEM	ASTM A182 F304 /F316
10	GASKET	304 /316SS / SPIRAL WOUND GRAPHITE
11	BOLT	ASTM A320 B8 CL2
12	PACKING	DUCTILE IRON
13	HANDWHEEL NUT	ASTM A276 304
14	WASHER	ASTM A276 304
15	STUD	ASTM A193 B8
16	NUT	ASTM A194 8
17	NAME PLATE	ASTM A276 304
18	SCREW	ISO 3506 A1-50
19	DIRECTION SIGN	ASTM A276 304

Class 800 Bolted Bonnet

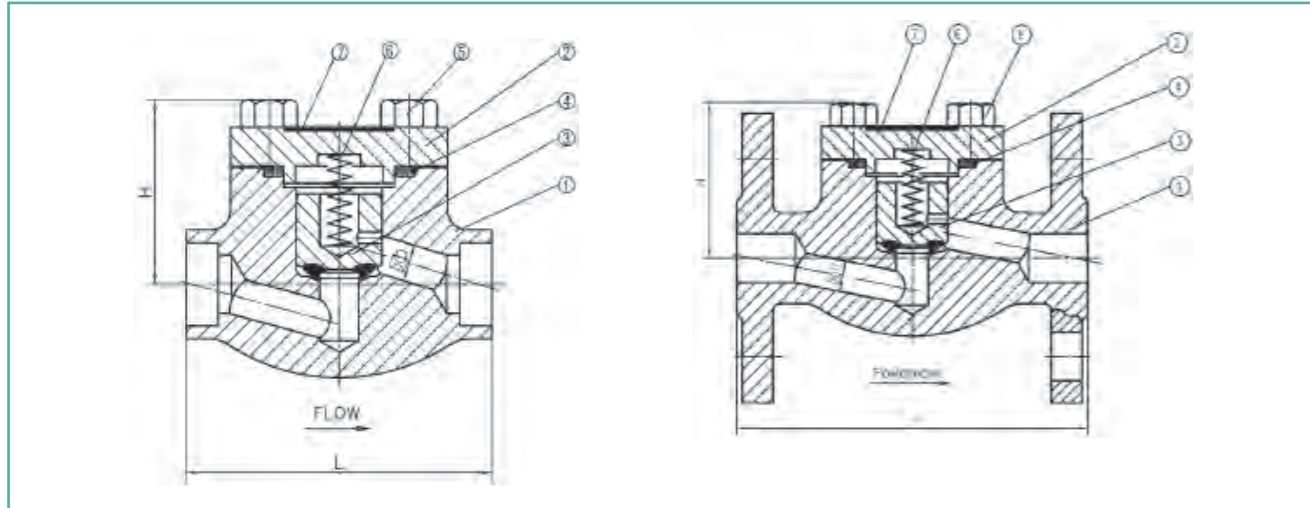
Regular and Full Port-API602. Outside Screw & Yoke-Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	76	2.99	86	3.39	102	4.02	140	5.51	140	5.51	170	6.69
Bore Diameter	D	9.5	0.37	12.7	0.50	17.5	0.69	23	0.91	28.6	1.13	36.5	1.44
Center to Top (Open)	H	394.3	15.52	16.7	16.41	470.3	18.52	91.8	19.36	537.8	21.17	569.8	22.43
Handwheel	W	90	3.54	110	4.33	150	5.91	150	5.91	180	7.09	180	7.09
Approx. Weight	Kg/Lb	3	6.61	3.5	7.72	6	13.23	9	19.84	10.5	23.15	15.5	34.17

Class 150-300-600 Overall-end Flange, Bolted Bonnet, Structure Length-ASME B16.10

Regular Port-API 602. Outside Yoke & Overall-end Flange-ASME B16.5

Regular Port	Size	1/2		3/4		1		1-1/2		2		
		mm	in	mm	in	mm	in	mm	in	mm	in	
End to End	Class 150	L	108	4.25	117	4.61	127	5	165	6.50	203	7.99
	Class 300	L	152	5.98	178	7.01	203	7.99	229	9.02	267	10.51
	Class 600	L	165	6.50	190	7.48	216	8.50	241	9.49	292	11.50
Bore Diameter	D	9.50	0.37	12.7	0.50	17.5	0.69	28.6	1.13	36.5	1.44	
Center to Top (Open)	H	394.3	15.52	416.7	16.41	470.3	18.52	537.8	21.17	569.8	22.43	
Handwheel	W	90	3.54	110	4.33	150	5.91	180	7.09	180	7.09	
Approx. Weight	Class 150		5	11.02	6	13.23	7.5	16.53	15	33.07	20	44.09
	Class 300	Kg/Lb	5.6	12.35	7.5	16.53	8.3	18.30	16.5	36.38	22	48.50
	Class 600		6.1	13.45	7.8	17.20	9.1	20.06	18	39.68	24	52.91



Material List

NO.	Description of Parts	Material
		Stainless Steel
1	BODY	ASTM A182 F304/F316/STL.OVERLAY
2	BONNET	ASTM A182 F304 1 F316
3	DISC	ASTM A182 F304/ F316/STLOVERLAY
4	GASKET	304/316SS /SPIRAL WOUND GRAPHITE
5	BOLT	ASTM A320 B8 CL2I
6	SPRING	NCONEL X750
7	NAME PLATE	ASTM A276 304

Class 800 Bolted Bonnet

Regular and Full Port-API1602. Outside Screw & Yoke-Threaded and Socket Weld Ends

Regular Port	Size	1/2		3/4		1		1-1/4		1-1/2		2	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Full Port	Size	3/8		1/2		3/4		1		1-1/4		1-1/2	
End to End	L	76	2.99	86	3.39	102	4.02	140	5.51	140	5.51	170	6.69
Bore Diameter	D	9.5	0.37	12.7	0.50	17.5	0.69	23	0.91	28.6	1.13	36.5	1.44
Center to Top (Open)	H	48	1.89	53	2.09	64	2.52	80	3.15	80	3.15	100	3.94
Approx. Weight	Kg/Lb	1	2.20	1.5	3.31	2	4.41	4.5	9.92	6	13.23	7.5	16.53

Class 150-300-600 Overall-end Flange, Bolted Bonnet, Structure Length-ASME B16.10

Regular Port-API 602. Outside Yoke & Overall-end Flange-ASME B16.5

Regular Port	Size	1/2		3/4		1		1-1/2		2		
		mm	in	mm	in	mm	in	mm	in	mm	in	
End to End	Class 150	L	108	4.25	117	4.61	127	5	165	6.50	203	7.99
	Class 300	L	152	5.98	178	7.01	203	7.99	229	9.02	267	10.51
	Class 600	L	165	6.50	190	7.48	216	8.50	241	9.49	292	11.50
Bore Diameter	D	9.50	0.37	12.7	0.50	17.5	0.69	28.6	1.13	36.5	1.44	
Center to Top (Open)	H	50	1.97	54	2.13	68	2.68	78	3.07	96	3.78	
Approx. Weight	Class 150		2.5	5.51	3.3	7.28	4.3	9.48	9	19.84	13	28.66
	Class 300	Kg/Lb	3	6.61	3.8	8.38	5.2	11.46	10.5	23.15	15	33.07
	Class 600		3.5	7.72	4.5	9.92	6	13.23	12	26.46	17	37.48

Welded Bonnet

Full penetration welding-welded bonnet is the standard design for Neway welded bonnet valves.

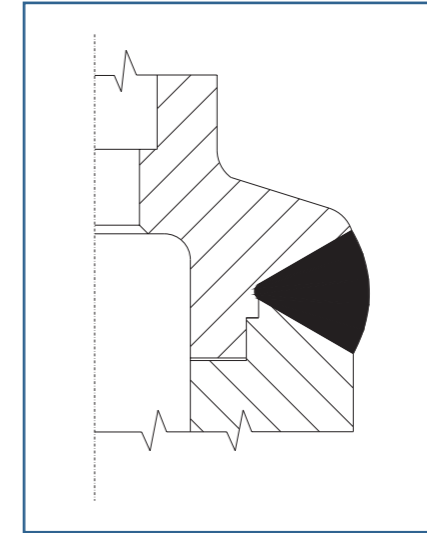


Fig.1

Gland Bolt

Neway forged steel gate and globe valves are provided with stud and nuts gland assembly (see Fig 2); eyebolts style are optional (see Fig 3).

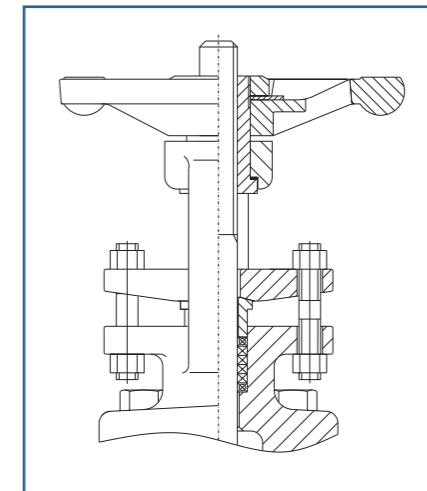


Fig.2

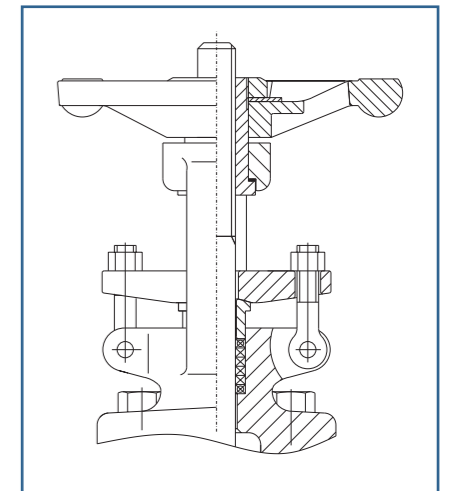


Fig.3

Bolted Bonnet

RTJ bonnet joint is the standard design for ANSI Class 1500 & 2500 valves (see Fig 4). Male to female bonnet joint is optional for ANSI Class 1500 (see Fig 5).

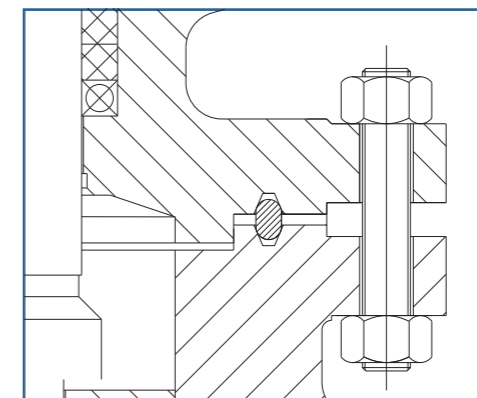


Fig.4

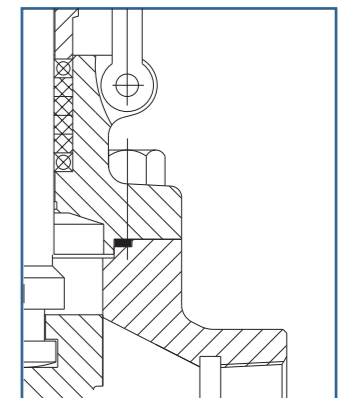


Fig.5

Neway Head Office

Covers area: 2,295 sqm
Office area: 6,885 sqm

Founded in 2014



Neway Manufacturing Base

Main Products: Ball Valve, Gate Valve, Globe Valve,
Check Valve, Forged Steel Valve,
Butterfly Valve

Covers area: 230,000 sqm
Work shop: 140,061 sqm

Expanded in 2013



Neway Foundry (Suzhou)

Main products: Sand Casting
Covers area: 112,500 sqm
Office area: 134,000 sqm

Founded in 2008



Neway Foundry (Dafeng)

Main products: Lost wax investment casting
Covers area: 46,000 sqm
Office area: 12,000 sqm

Founded in 2004



Neway Foundry (Dafeng)

Main products: Lost wax investment casting
Covers area: 40,000 sqm
Office area: 20,000 sqm

Founded in 2008



Seller will replace without charge or refund the purchase price of products provided by Seller which prove to be defective in material or workmanship, provided in each case that the product is properly installed and is used in the service for which Seller recommends it and that written claim, specifying the alleged defect, is presented to the Seller within 18 months from the date of shipment or 12 months after installation, whichever occurs first. Seller shall in no event bear any labor, equipment, engineering or other costs incurred in connection with repair or replacement. The warranty stated in this paragraph is in lieu of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and seller's exclusive liability.