



**NEWAY**

# Forged Steel Valve

*Complete Solutions for Engineered Valves*

**NEWAY VALVE**

Cat.no.:E-FSV-2013

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## Complete Solutions for Engineered Valves

As one of the leading valve manufacturers in the world, NEWAY specializes in the development of innovative designs through intensive R&D programs and a commitment to excellence, engineering and manufacturing valve solutions for all industries.

NEWAY's main product lines include Gate, Globe, Check, Butterfly and Ball valves with quality innovative designs, recognized by many global users and EPC's. These products have been installed throughout the world in Gas, Oil, Refining, Chemical, Marine, Power Generation and Pipeline Transmission industrial applications.

## NEWAY'S Facilities

NEWAY's facilities are among one of the most advanced in valve manufacturing in the world today. NEWAY has developed and implemented a group management system base on multi-plant manufacturing. Valves are manufactured in six specialized production facilities that are linked by an intranet system of over 600 computers, connecting engineering to the CNC machining centers, and the bar-coded warehouse system. NEWAY has implemented an Enterprise Resource Planning (ERP) manufacturing management system. In-house testing capabilities include fire-safe, cryogenic, high pressure gas and fugitive emission testing.

## Quality Assurance

NEWAY's quality assurance is dedicated to the pursuit of zero defect valves to customers. We perform active Six Sigma quality management to continually enhance process control management based on advanced data statistical analysis. NEWAY's industrial certificates include ISO 9001, CE/PED, TA-Luft, API 6A, API 6D, ABS, and Fire Safe approvals.

# Quality Commitment

ISO 9001

API 6D



API 6A



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.

CE/PED



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.

TA Luft

ABS



Fire Safe Test

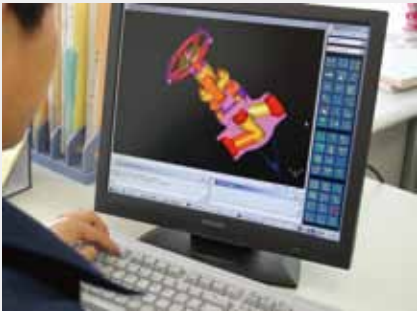
API 591

# Products Views

Neway compact forged steel valve series consist of gate, globe and check valves, optimized by the most advanced FEA (Finite Element Analysis) design and manufactured in accordance with API 602, EN/ISO15761 and ANSI B16.34. These valves are available in size from NPS 1/2" to 2" in ANSI class 800 lbs, 1500 lbs and 2500lbs. A wide range of body materials are available including A105, LF2, F11/F22, F5/F9, F304, F316/L etc.; special service applications valves such as NACE MR 0175 can also be provided.

Bolted bonnet is the standard design; threaded, seat-welded or welded bonnet are optional. A complete range of integral flanged end gate, globe and check valves are now provided.

The main components are manufactured using CNC machine centers to ensure consistent high quality. Neway has two modern production lines, incorporating assembly, testing and packaging processes which can produce in excess of 1000 pieces of valves per day.



# Products Views



# How to Order

## Figure Number Example:



Neway valve figure numbers are designed to cover essential features. When ordering, please show figure numbers to avoid misunderstanding of your requirements. However a detailed description must accompany any special orders.

## Following descriptions provide a basic guideline in valve specification.

### ① Valve Size

### ② Valve Type

Valve Type	Gate Valve	Globe 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	Screwed × Socket	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

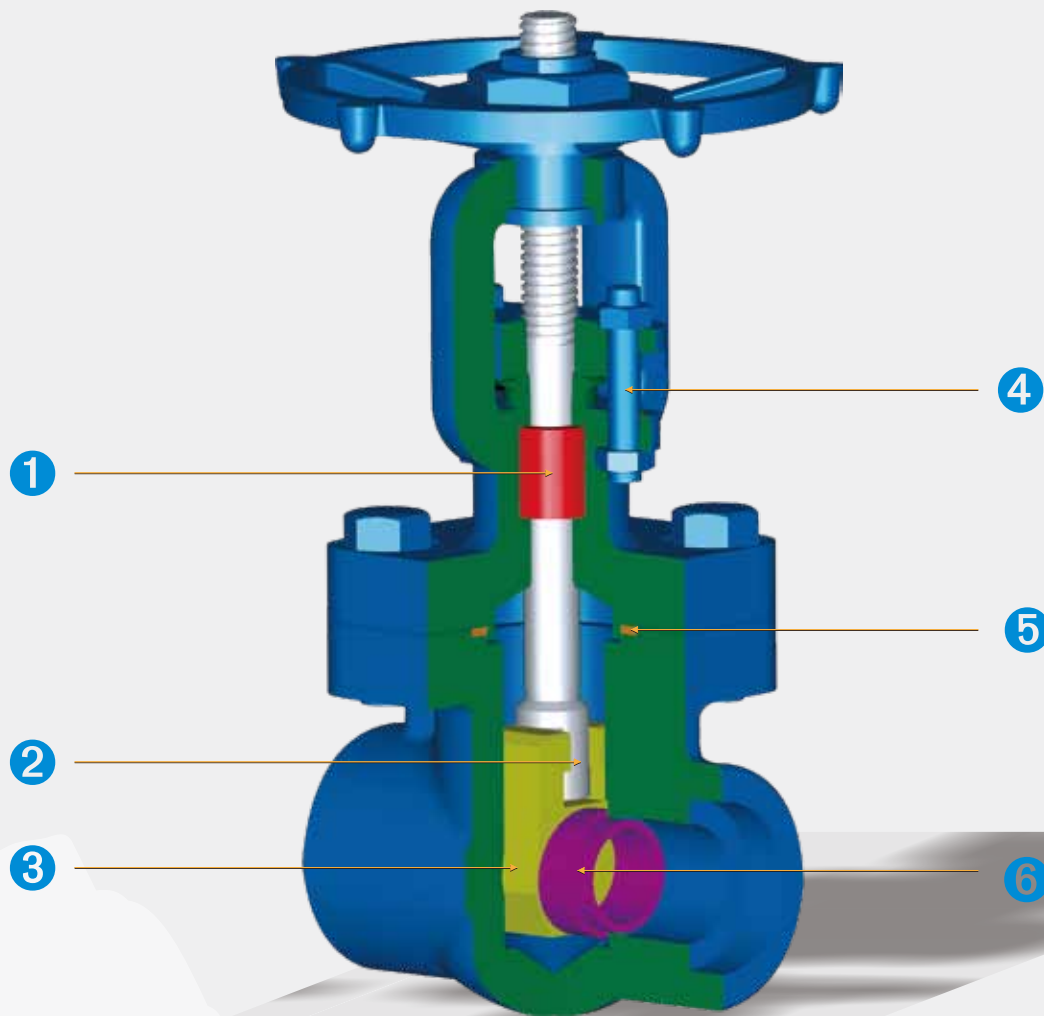
Body Materials	A105	LF2	F11	F22	F5	F316	F304	F316L	F304L
ASTM Ref.	A105N	A350 Gr.LF2	A182 Gr. F11	A182 Gr. F22	A182 Gr. F5	A182 Gr. F316	A182 Gr. F304	A182 Gr. F316L	A182 Gr. F304L

### 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

# Forged Steel Gate Valve

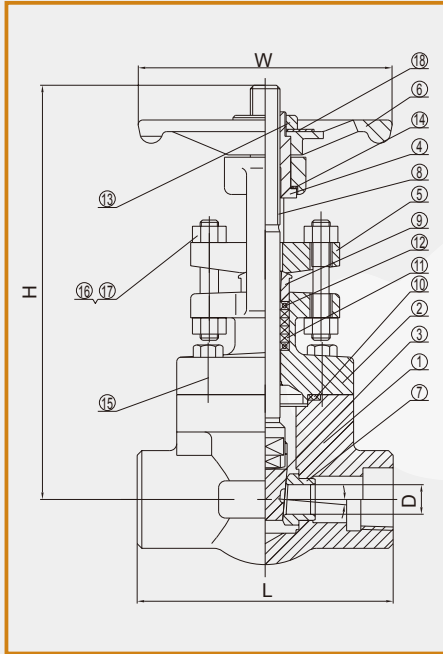
## Design Features



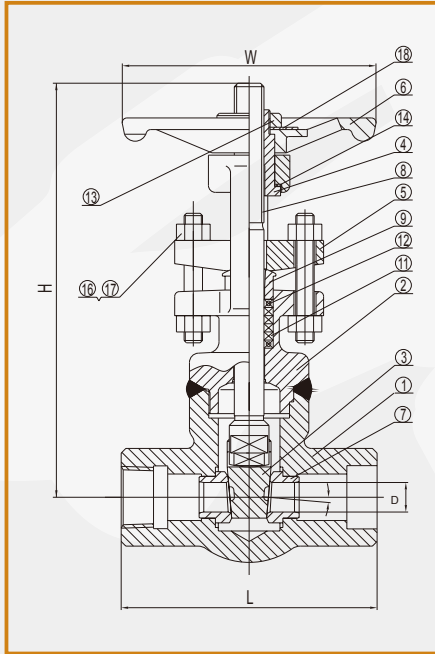
- 1 A positive backseat, high quality packing material and improved stuffing box design ensure tighter stem seal.
- 2 The T-head stem design provides positive disc to stem connection and ensures effective seating operation.
- 3 Fully guided solid wedge reduces wear on seating surfaces.
- 4 Stud and bolt 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.

# Forged Steel Gate Valve

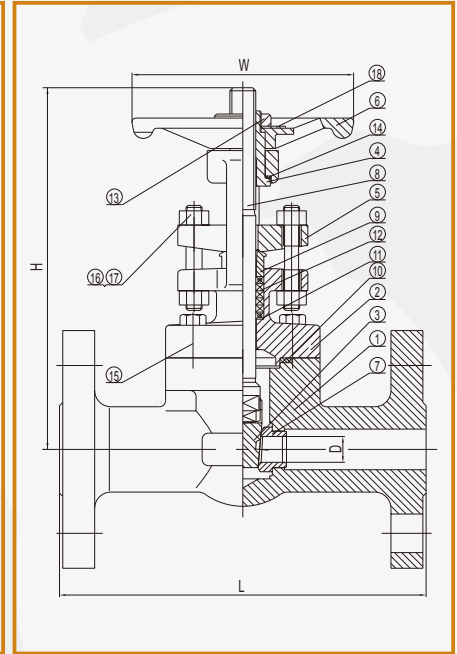
G.A. Drawing



Bolted Bonnet



Welded Bonnet



Integral Flanged Ends

## Material List

NO.	Description of Parts	Material				
		Standard	High Temperature	Stainless Steel	Sour Service	Low Temp.
1	BODY	ASTM A105 N	ASTM A182-F11/F22	ASTM A182-F304/F316	ASTM A105	ASTM A350-LF2
2	BONNET	ASTM A105 N	ASTM A182-F11/F22	ASTM A182-F304/F316	ASTM A105	ASTM A350-LF2
3	WEDGE	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F304/F316	ASTM A182-F6a-NC	ASTM A182-F304/F316
4	STEM NUT	ASTM A276-420	ASTM A276-420	ASTM A276-420	ASTM A276-420	ASTM A276-420
5	GLAND FLANGE	ASTM A216 WCB	ASTM A216-WCB	ASTM A351-CF8	ASTM A216-WCB	ASTM A352 LCB
6	HANDWHEEL	DUCTILE IRON	DUCTILE IRON	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	ASTM A276-410/ STL.OVERLAY	ASTM A276-410/ ATL.OVERLAY
8	STEM	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F304/F316	ASTM A182-F6a-NC	ASTM A182-F304/F316
9	GLAND	ASTM A276-420	ASTM A276-420	ASTM A240-304/316	ASTM A276-420-NC	ASTM A240-304/316
10	GASKET	304SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE
11	PACKING	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
12	PACKING	CARBON YARN	CARBON YARN	CARBON YARN	CARBON YARN	CARBON YARN
13	HANDWHEEL NUT	CARBON STEEL	CARBON STEEL	ASTM A276-304	CARBON STEEL	ASTM A276-304
14	WASHER	ASTM A276-304	ASTM A276-304	ASTM A276-304	ASTM A276-304	ASTM A276-304
15	STUD	ASTM A193-B7	ASTM A193-B16	ASTM A193-B8	ASTM A193-B7M	ASTM A320 L7M
16	BOLT	ASTM A193-B8	ASTM A193-B8	ASTM A193-B8	ASTM A193-B8A	ASTM A193-B8
17	NUT	ASTM A194-8	ASTM A194-8	ASTM A194-8	ASTM A194-8A	ASTM A194-8
18	NAME PLATE	ASTM A240-304	ASTM A240-304	ASTM A240-304	ASTM A240-304	ASTM A240-304



# Forged Steel Gate Valve

## Dimensions

### Class 800 Bolted Bonnet or Welded Bonnet

Regular and Full Port - API602 - EN ISO 15761. 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"		2"		
End to End	L	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
		82	3.23	82	3.23	86	3.39	102	4.02	118	4.65	118	4.65	132	5.2	150	5.91	
Bore Diameter	D	6.4	0.25	9.5	0.37	12.7	0.5	17.5	0.69	23.8	0.94	28.6	1.13	36.5	1.44	44	1.73	
Center to Top (Open)	H	Bolted Bonnet	157	6.18	157	6.18	164	6.46	198	7.80	256	10.08	263	10.35	297	11.69	346	13.62
		Welded Bonnet	138	5.43	158	6.22	165	6.50	197	7.76	260	10.24	265	10.43	300	10.81	-	-
Handwheel	W	90	3.54	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	1.5	3.3	1.5	3.3	2	4.5	3	6.5	4	9	5.5	12	7.5	16.5	10.5	23	

### Class 1500 Bolted Bonnet or Welded Bonnet

Regular and Full Port - API602 - EN ISO 15761. 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"		2"		
End to End	L	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
		90	3.54	90	3.54	104	4.1	120	4.72	130	5.12	130	5.12	150	5.91	210	8.27	
Bore Diameter	D	6.4	0.25	9.5	0.37	12.7	0.5	16	0.63	22.5	0.89	27	1.06	35	1.38	38.1	1.5	
Center to Top (Open)	H	Bolted Bonnet	173	6.81	173	6.81	200	7.87	235	9.25	265	10.43	272	10.71	340	13.39	380	14.96
		Welded Bonnet	177.2	7	177.2	7	205.5	8.1	239.8	9.4	270.8	10.7	275.8	10.9	325.3	12.8	-	-
Handwheel	W	90	3.54	90	3.54	110	4.33	150	5.91	150	5.91	150	5.91	180	7.08	180	7.09	
Approx. Weight	Kg/Lb	2.5	5.5	2.5	5.5	3.5	7.7	5.5	12.1	8.5	18.7	8.5	18.7	14.5	31.9	20	44	

### Class 1500 RTJ Bonnet

Full Port - EN ISO 15761. 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.
		-	-	-	-	110	4.33	150	5.9	150	5.9	-	-	210	8.26	235	8.26
Bore Diameter	D	-	-	14	0.55	19	0.75	24	0.94	-	-	37	1.45	48	1.89		
Center to Top (Open)	H	-	-	227	8.93	300	11.8	307	12	-	-	400	15.7	448	17.6		
Handwheel	W	-	-	110	4.33	150	5.91	150	5.91	-	-	180	7.08	180	7.09		
Approx. Weight	Kg/Lb	-	-	5	11	10	22	11.5	25.3	-	-	22	48.4	37	81.5		

### Class 2500 Welded Bonnet

Full Port - B16.34. 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.
		-	-	-	-	127	5.00	178	7.01	186	7.32	-	-	232	9.13	235	9.25
Bore Diameter	D	-	-	14	0.55	19	0.75	24	0.94	-	-	37	1.45	37	1.45		
Center to Top (Open)	H	-	-	214	8.42	295	11.62	380	14.96	-	-	440	17.32	430	16.9		
Handwheel	W	-	-	130	5.12	150	5.91	180	7.09	-	-	250	9.84	250	9.84		
Approx. Weight	Kg/Lb	-	-	6	13.2	7	15.4	10	22	-	-	26	57.3	26	57.3		

# Forged Steel Gate Valve

## Dimensions

### Class 2500 RTJ Bonnet

Full Port - B16.34. 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	-	-	-	-	150	5.9	150	5.9	210	8.26	-	-	235	9.25	235	9.25
Bore Diameter	D	-	-	-	-	14	0.55	19	0.75	24	0.94	-	-	36.5	1.44	36.5	1.44
Center to Top (Open)	H	-	-	-	-	293	11.5	300	11.8	390	15.4	-	-	429	16.89	429	16.89
Handwheel	W	-	-	-	-	130	5.12	130	5.12	200	7.87	-	-	250	9.84	250	9.84
Approx. Weight	Kg/Lb	-	-	-	-	10	22	10	22	22	48.4	-	-	34	74.8	34	74.8

### Class 150-300-600 Bolted Bonnet & Integral Flanged Ends

Regular Port - API602 - EN ISO 15761. Outside Screw & Yoke - Integral Flanged Ends according to ASME B 16.5

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	4.62	127	5	165	6.5	178	7
	Class 300	L	140	5.5	152	6	165	6.5	190	7.5	216	8.5
	Class 600	L	165	6.5	190	7.5	216	8.5	241	9.5	292	11.5
Bore Diameter	D	9.5	0.37	12.7	0.5	17.5	0.69	28.6	1.13	36.5	1.44	
Center to Top (Open)	H	177	6.97	185	7.28	213	8.39	265	10.43	300	11.81	
Handwheel	W	90	3.54	90	3.54	110	4.33	150	5.91	150	5.91	
Approx. Weight	Class 150	Kg/Lb	3	6.6	3.8	8.3	4.8	10.6	10	22	15	33
	Class 300	Kg/Lb	3.4	7.5	4.5	9.9	5.7	12.5	11.5	25.3	17	37.4
	Class 600	Kg/Lb	4	8.8	5.2	11.4	6.6	14.5	12.7	28	18	39.6

End to End dimensions according to ASME B 16.10

### Class 1500 RTJ Bonnet & Integral Flanged Ends

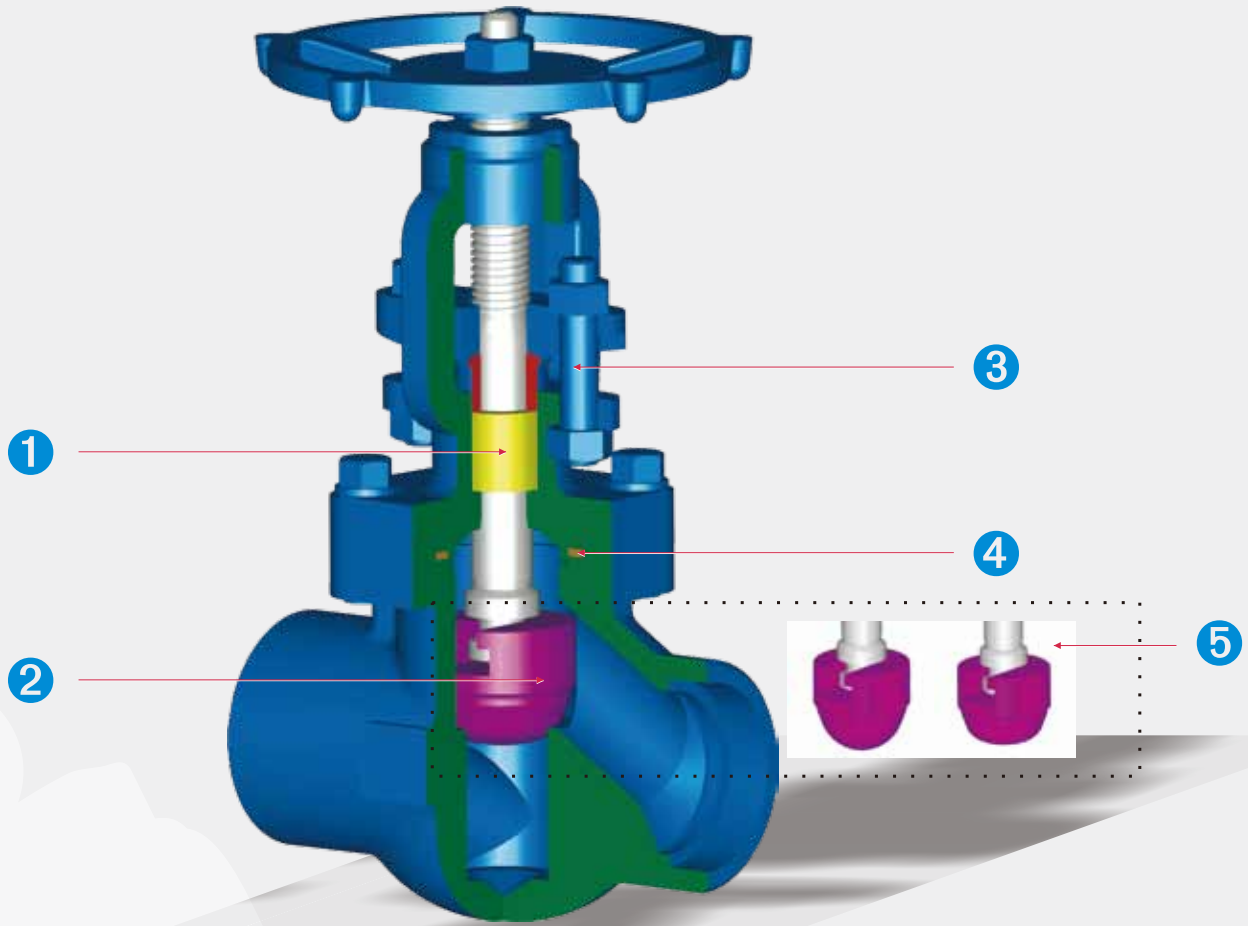
Full Port - API602 - EN ISO 15761. Outside Screw & Yoke - Integral Flanged Ends according to ASME B 16.5

Full Port	Size	1/2"		3/4"		1"		1-1/2"		2"	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	L	-	-	-	-	254	10	305	12	368	14.5
Bore Diameter	D	-	-	-	-	24	0.94	37	1.45	48	1.89
Center to Top (Open)	H	-	-	-	-	300	11.8	390	15.3	420	16.5
Handwheel	W	-	-	-	-	150	5.91	150	5.91	200	7.87
Approx. Weight	Kg/Lb	-	-	-	-	19	41.8	28	61.6	31	68.2

End to End dimensions according to ASME B 16.10

# Forged Steel Globe Valve

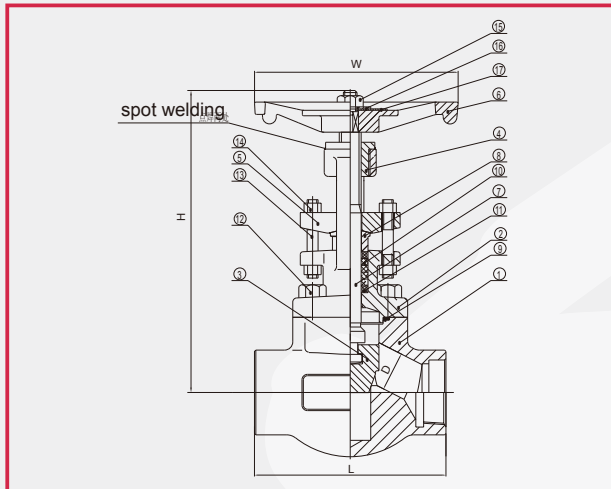
## Design Features



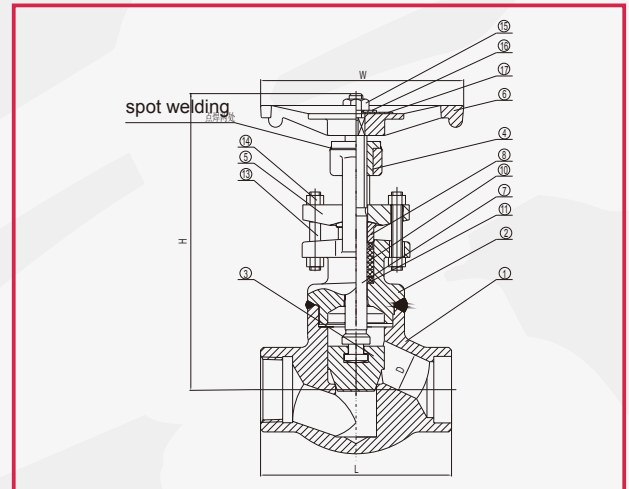
- 1 A positive backseat, high quality packing material and improved stuffing box design ensure tighter stem seal.
- 2 Fully guided solid disc ensures perfect alignment of disc and seat and reduces wear on seating surfaces.
- 3 Stud and bolt arrangement facilitates packing maintenance.
- 4 Recessed Body-Bonnet 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.

# Forged Steel Globe Valve

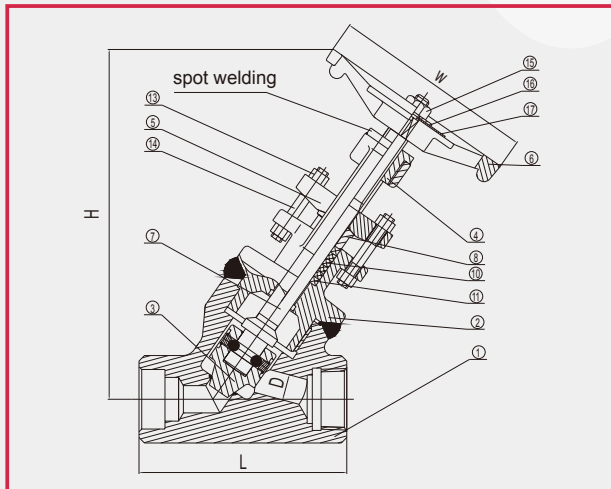
G.A. Drawing



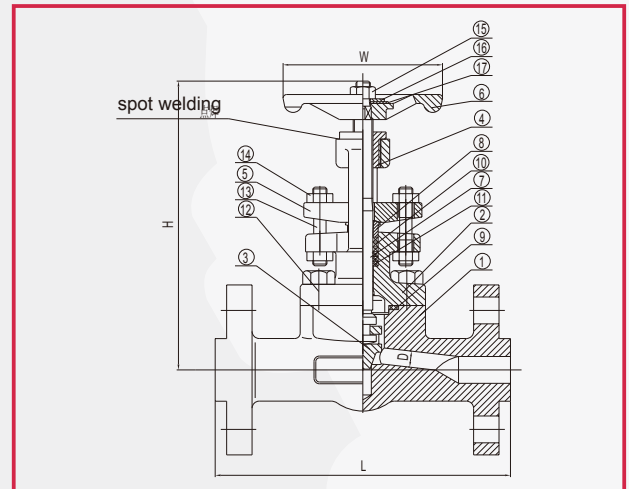
Bolted Bonnet



Welded Bonnet



Y Pattern Welded Bonnet



Integral Flanged Ends

## Material List

NO.	Description of Parts	Material				
		Standard	High Temperature	Stainless Steel	Sour Service	Low Temp.
1	BODY	ASTM A105/STL.OVERLAY	ASTM A182-F11/F22/ STL OVERLAY	ASTM A182-F304/F316/ STL OVERLAY	ASTM A105/STL.OVERLAY	ASTM A350 LF2/OVERLAY
2	BONNET	ASTM A105	ASTM A182-F11/F22	ASTM A182-F304/F316	ASTM A105	ASTM A350- LF2
3	DISC	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F304/F316	ASTM A182-F6a-NC	ASTM A182-F304/F316
4	STEM NUT	ASTM A276-420	ASTM A276-420	ASTM A276-420	ASTM A276-420	ASTM A276-420
5	GLAND FLANGE	ASTM A216 WCB	ASTM A216-WCB	ASTM A351-CF8	ASTM A216-WCB	ASTM A352-LCB
6	HAND WHEEL	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
7	STEM	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F304/F316	ASTM A182-F6a-NC	ASTM A182-F304/F316
8	GLAND	ASTM A276-420	ASTM A276-420	ASTM A276-304/316L	ASTM A276-420-NC	ASTM A276-304/316
9	GASKET	304SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE
10	PACKING	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
11	PACKING	CARBON YARN	CARBON YARN	CARBON YARN	CARBON YARN	CARBON YARN
12	STUD	ASTM A193-B7	ASTM A193-B16	ASTM A193-B8	ASTM A193-B7M	ASTM A320 L7M

# Forged Steel Globe Valve

## Dimensions

### Material List

NO.	Description of Parts	Material				
		Standard	High Temperature	Stainless Steel	Sour Service	Low Temp.
13	BOLT	ASTM A193-B8	ASTM A193-B8	ASTM A193-B8	ASTM A193-B8A	ASTM A193-B8
14	NUT	ASTM A194-8	ASTM A194-8	ASTM A194-8	ASTM A194-8A	ASTM A194-8
15	HANDWHEEL NUT	CARBON STEEL	CARBON STEEL	ASTM A276-304	CARBON STEEL	ASTM A276-304
16	HANDWHEEL WASHER	CARBON STEEL	CARBON STEEL	ASTM A276-304	CARBON STEEL	ASTM A276-304
17	NAME PLATE	ASTM A240-304	ASTM A240-304	ASTM A240-304	ASTM A240-304	ASTM A240-304

### Class 800 Bolted Bonnet or Welded Bonnet

Regular and Full Port - EN ISO 15761 .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"		2"		
End to End	L	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
		76	2.99	76	2.99	86	3.39	102	4.02	140	5.51	140	5.51	170	6.7	210	8.26	
Bore Diameter	D	6.4	0.25	9.5	0.37	12.7	0.5	17.5	0.69	23.8	0.94	28.6	1.13	36.5	1.44	44.5	1.75	
Center to Top (Open)	H	Bolted Bonnet	136.3	5.4	136.3	5.4	141.3	5.6	174.3	6.9	210	8.27	210	8.27	245	9.65	-	-
		Welded Bonnet	151.3	6	151.3	6	166.3	6.5	206.3	8.1	272.3	10.7	281.3	11.1	350.2	13.8	-	-
Handwheel	W	90	3.54	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	4.4	2	4.4	2.5	5.5	3.5	7.7	7	15.4	7	15.4	10.5	23.1	15	33	

### Class 800 Y Pattern Welded Bonnet

Full Port - EN ISO 15761.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.
		-	80	3.15	80	3.15	90	3.54	110	4.33	125	4.92	155	6.1	180	7.09	
Bore Diameter	D	-		9.5	0.37	12	0.47	17	0.67	23	0.86	29	1.14	36	1.42	44	1.73
Center to Top (Open)	H	-		159	6.26	188	7.40	225	8.86	255	10.04	300	11.81	345	13.58	400	15.75
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	4.4	2	4.4	3	6.6	4.2	9.24	5.2	11.4	9.5	20.9	11	24.2

### Class 1500 Bolted Bonnet or Welded Bonnet

Regular and Full Port - EN ISO 15761 .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"		2-1/2"		
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.	
		90	3.54	90	3.54	104	4.09	120	4.72	150	5.91	150	5.91	180	7.09	210	8.62	
Bore Diameter	D	6	0.24	9	0.35	12	0.47	15	0.59	21	0.83	27	1.06	32	1.26	37.5	1.48	
Center to Top (Open)	H	Bolted Bonnet	166	6.54	166	6.54	192	7.56	227	8.94	280	11.00	280	11.00	312	12.30	316	12.40
		Welded Bonnet	179.7	7.1	179.7	7.1	207.2	8.2	239.7	9.4	281.8	11.1	285.8	11.3	316.3	12.5	-	-
Handwheel	W	90	3.54	90	3.54	110	4.33	150	5.90	150	5.90	180	7.09	180	7.09	180	7.09	
Approx. Weight	Kg/Lb	2.5	5.5	2.5	5.5	3	6.6	5.5	12.1	8.5	18.7	8.5	18.7	14.5	31.9	18	39.6	

# Forged Steel Globe Valve

## Dimensions

### Class 1500 RTJ Bonnet

Full Port - EN ISO 15761. 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.
		-		-		110	4.33	150	5.9	150	5.9	-		210	8.26	235	9.25
Bore Diameter	D	-		-		13	0.51	17	0.67	21	0.83	-		33	1.3	37.5	1.48
Center to Top (Open)	H	-		-		235	9.25	265	10.4	310	12.2	-		370	14.5	435	17.1
Handwheel	W	-		-		110	4.33	130	5.11	130	5.11	-		180	7.09	180	7.09
Approx. Weight	Kg/Lb	-		-		5	11	11	24.2	12	26.4	-		22	48.4	37	81.5

### Class 1500 Y Pattern Welded Bonnet

Full Port - EN ISO 15761. 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.
		80	3.15	80	3.15	90	3.54	110	4.33	125	4.92	155	6.10	180	7.09	200	7.87
Bore Diameter	D	7	0.27	9	0.35	12	0.47	15	0.59	21	0.83	27	1.06	32	1.26	39	1.53
Center to Top (Open)	H	170	6.70	170	6.70	200	7.87	238	9.37	272	10.71	338	13.31	326	12.83	376	14.80
Handwheel	W	90	3.54	90	3.54	110	4.33	150	5.90	150	5.90	180	7.08	180	7.08	200	7.87
Approx. Weight	Kg/Lb	2	4.4	2	4.4	3	6.6	4.2	9.2	5.2	11.4	9.5	20.9	11	24.2	15	33

### Class 2500 Welded Bonnet

Full Port - B16.34. 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.
		-		-		120	4.72	140	5.51	186	7.32	-		232	9.13	279	10.98
Bore Diameter	D	-		-		13	0.51	17	0.67	21	0.83	-		29.5	1.16	35	1.37
Center to Top (Open)	H	-		-		205	8.07	260	10.24	302	11.89	-		340	13.39	390	15.35
Handwheel	W	-		-		150	5.91	180	7.09	200	7.87	-		250	9.84	350	13.78
Approx. Weight	Kg/Lb	-		-		7	15.4	9	19.8	12.5	27.5	-		26	57.2	27	59.4

### Class 2500 RTJ Bonnet

Full Port - B16.34. 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.
		-		-		150	5.9	150	5.9	210	8.26	-		235	9.25	235	9.25
Bore Diameter	D	-		-		13	0.51	17	0.67	21	0.83	-		29.5	1.16	35	1.37
Center to Top (Open)	H	-		-		265	10.4	265	10.4	360	14.1	-		430	16.9	435	17.1
Handwheel	W	-		-		130	5.12	130	5.12	250	9.84	-		300	11.8	300	11.8
Approx. Weight	Kg/Lb	-		-		10	22	10	22	20	44	-		34	74.8	34	74.8

# Forged Steel Globe Valve

## Dimensions

### Class 2500 Y Pattern Welded Bonnet

Full Port - B16.34 .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.
		110	4.33	110	4.33	110	4.33	125	4.92	180	7.09	180	7.09	200	7.87	230	9.06
Bore Diameter	D	7	0.27	9	0.35	11	0.43	15	0.59	19.5	0.76	27.5	1.08	31.5	1.24	39.5	1.55
Center to Top (Open)	H	240	9.45	240	9.45	240	9.45	275	10.83	325	12.80	370	14.56	375	14.76	450	17.72
Handwheel	W	130	5.11	130	5.11	150	5.91	150	5.91	180	7.08	180	7.08	200	7.87	300	11.81
Approx. Weight	Kg/Lb	4.5	9.9	4.5	9.9	4.5	9.9	7	15.4	7.5	16.5	10	22	14.5	31.9	24	52.8

### Class 150-300-600 Bolted Bonnet & Integral Flanged Ends

Regular Port - EN ISO 15761.Outside Screw & Yoke - Integral Flanged Ends according to ASME B 16.5

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	4.62	127	5	165	6.5	203	8
		Class 300	152	6	178	7	203	8	229	9	267	10.5
		Class 600	165	6.5	190	7.5	216	8.5	241	9.5	292	11.5
Bore Diameter	D	9.5	0.37	12.7	0.5	17.5	0.69	28.6	1.13	36.5	1.44	
Center to Top (Open)	H	145	5.71	150	5.91	187.5	7.17	223	8.78	263	10.35	
Handwheel	W	90	3.54	90	3.54	110	4.33	150	5.91	150	5.91	
Approx. Weight	Class 150	Kg/Lb	3.5	7.7	4.3	9.5	5.3	11.7	12	26.4	16	35.2
	Class 300	Kg/Lb	4	8.8	4.8	10.6	6.2	13.6	13.5	29.7	18	39.6
	Class 600	Kg/Lb	4.5	9.9	5.5	12.1	7	15.4	15	33	20	44

End to End dimensions according to ASME B 16.10

### Class 1500 RTJ Bonnet & Integral Flanged Ends

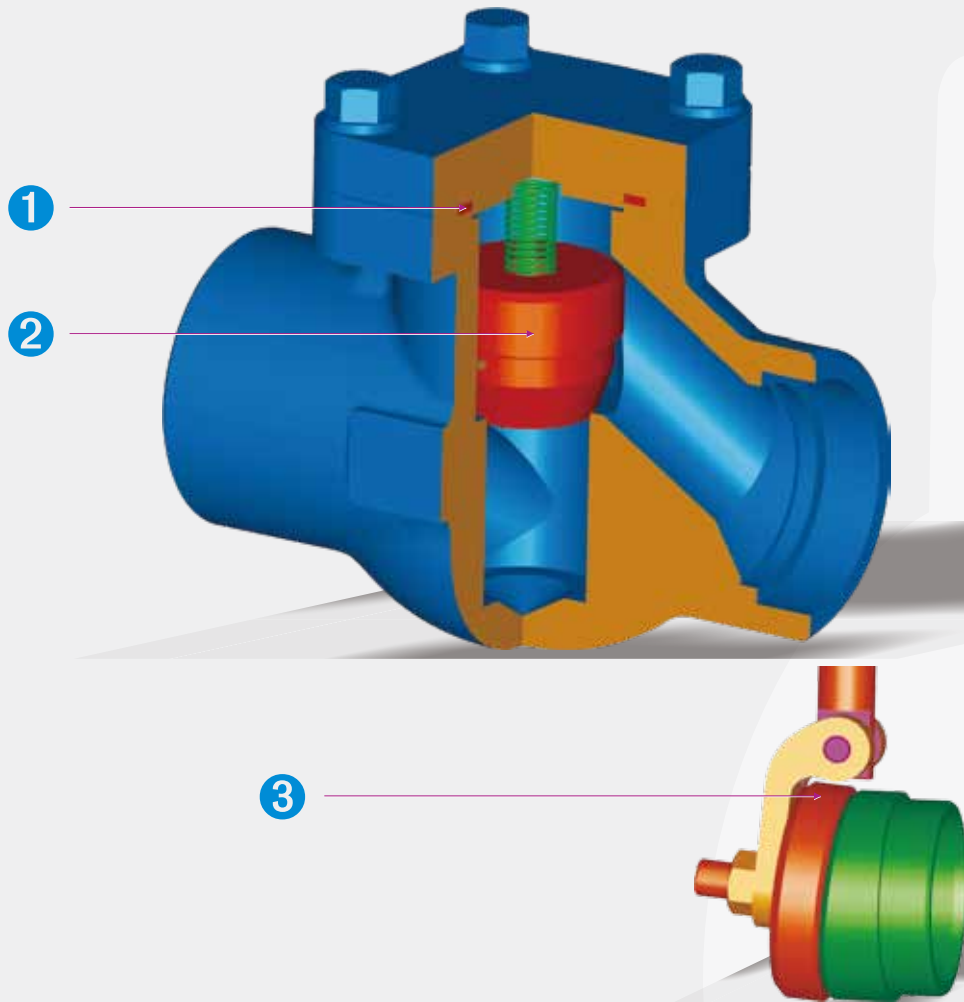
Full Port - EN ISO 15761.Outside Screw & Yoke - Integral Flanged Ends according to ASME B 16.5

Full 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.
		216	8.5	229	9	254	10	305	12	368	14.5
Bore Diameter	D	13	0.51	17	0.67	21	0.83	33	1.30	37.5	1.48
Center to Top (Open)	H	260	10.2	300	11.8	300	11.8	390	15.3	420	16.5
Handwheel	W	110	4.33	110	4.33	150	5.90	200	7.87	250	9.84
Approx. Weight	Kg/Lb	9	19.8	10	22	19	41.8	28	61.6	32	70.4

End to End dimensions according to ASME B 16.10

# Forged Steel Check Valve

## Design Features

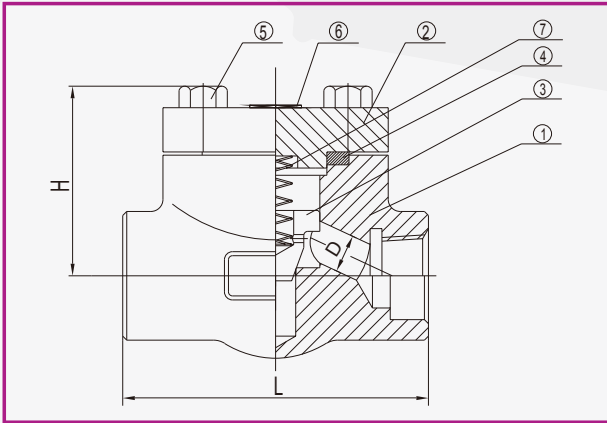


- 1 Recessed Body-Bonnet Joint design captures the stainless steel spiral wound gasket ensuring body/bonnet sealing integrity.
- 2 Body guided disc to ensure perfect alignment of disc and seat even under large flow conditions and high velocity.
- 3 Piston type are standard, swing disc style available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

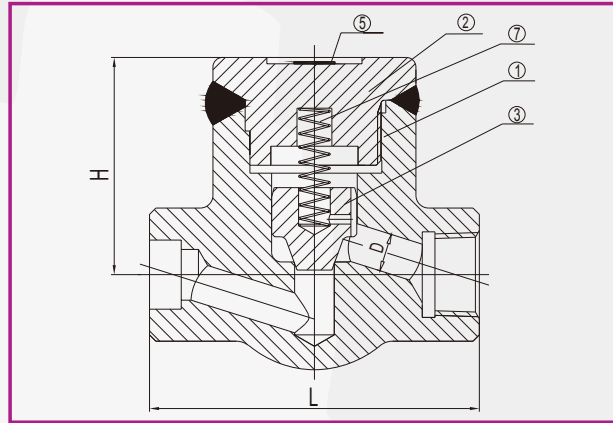


# Forged Steel Check Valve

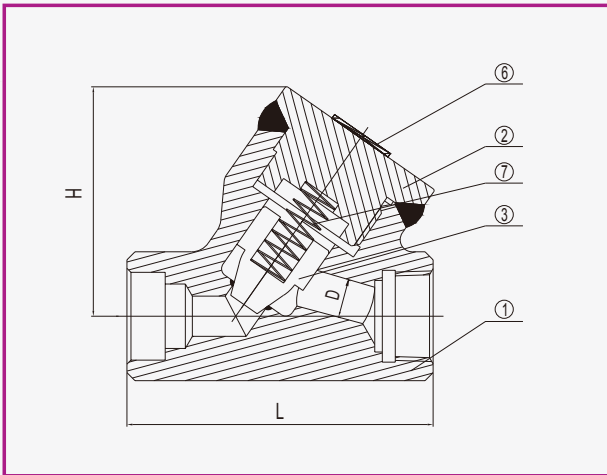
## G.A. Drawing of Piston Valve



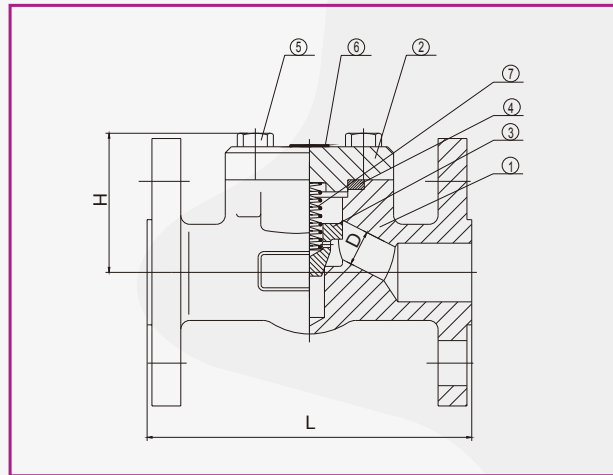
Bolted Cover



Welded Cover



Y Pattern Welded Cover



Integral Flanged Ends

## Material List

NO.	Description of Parts	Material				
		Standard	High Temperature	Stainless Steel	Sour Service	Low Temp.
1	BODY	ASTM A105/STL.OVERLAY	ASTM A182-F11/F22/ STL OVERLAY	ASTM A182-F304/F316/ STL OVERLAY	ASTM A105/STL.OVERLAY	ASTM A350-LF2
2	BONNET	ASTM A105	ASTM A182-F11/F22	ASTM A182-F304/F316	ASTM A105	ASTM A182-F304/F316
3	DISC	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F304/F316	ASTM A182-F6a-NC	ASTM A182-F304/F316
4	GASKET	304SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE
5	STUD	ASTM A193-B7	ASTM A193-B16	ASTM A193-B8	ASTM A193-B7M	ASTM A320-L7M
6	NAME PLATE	ASTM A240-304	ASTM A240-304	ASTM A240-304	ASTM A240-304	ASTM A240-304
7	SPRING	ASTM A276-316	ASTM A276-316	ASTM A276-316	ASTM A276-316	ASTM A276-316

# Forged Steel Check Valve

## Dimensions of Piston Valve

### Class 800 Piston Type Bolted Cover or Welded Cover

Regular and Full Port - EN ISO 15761. Bolted Cover or Welded Cover - 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"		2"		
End to End	L	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
		76	2.99	76	2.99	86	3.39	102	4.02	140	5.51	140	5.51	170	6.69	210	8.26	
Bore Diameter	D	6.4	0.25	9.5	0.37	12.7	0.5	17.5	0.69	23.8	0.94	28.6	1.13	36.5	1.44	44.5	1.75	
Center to Top (Open)	H	Bolted Bonnet	42	1.65	42	1.65	47	1.85	56	2.2	68	2.68	68	2.68	87	3.43	100	3.94
		Welded Bonnet	-	-	49	1.9	59	2.3	70.5	2.8	96	3.8	96	3.8	125.5	4.9	-	-
Approx. Weight	Kg/Lb	1	2.2	1	2.2	1.5	3.3	2.5	5.5	4	8.8	4	8.8	7.5	16.5	11	24.2	

### Class 800 Y Pattern Welded Cover

Full Port - EN ISO 15761. Welded Cover - 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.	
		-	-	80	3.15	80	3.15	90	3.54	110	4.33	125	4.92	155	6.1	180	7.09	
Bore Diameter	D	-	-	9.5	0.37	12	0.47	17	0.67	23	0.91	29	1.147	36	1.42	44	1.73	
Center to Top (Open)	H	-	-	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	
Approx. Weight	Kg/Lb	-	-	1.5	3.3	1.5	3.3	2	4.4	4.5	9.9	5	11	8	17.6	11	24.2	

### Class 1500 Piston Type Bolted Cover or Welded Cover

Regular and Full Port - EN ISO 15761. Bolted Cover or Welded Cover - Threaded and Socket Weld Ends

Regular Port	Size	3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"		2-1/2"		
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.	
		90	3.54	90	3.54	104	4.09	120	4.72	150	5.91	150	5.91	180	7.09	210	8.26	
Bore Diameter	D	7	0.28	9	0.35	12	0.47	15	0.59	21	0.83	27	1.06	32	1.26	37.5	1.48	
Center to Top (Open)	H	Bolted Bonnet	-	-	56	2.2	62	2.4	72	2.8	92.5	3.6	92.5	3.6	111	4.4	-	-
		Welded Bonnet	-	-	61.5	2.4	68.5	2.7	72.5	2.9	83.5	3.3	83.5	3.3	100.5	4	-	-
Approx. Weight	Kg/Lb	1.5	3.3	1.5	3.3	2.5	5.5	4	8.8	6	13.2	9.5	20.9	15	33	14.5	31.9	

### CLASS 1500 Piston Type RTJ Cover

Full Port - EN ISO 15761. RTJ Cover - 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.	
		-	-	-	-	104	4.09	120	4.72	150	5.91	-	-	180	7.09	210	8.27	
Bore Diameter	D	-	-	-	-	12	0.47	15	0.59	21	0.83	-	-	32	1.26	37.5	1.48	
Center to Top (Open)	H	-	-	-	-	100	3.93	130	5.11	145	5.7	-	-	160	6.29	195	7.67	
Approx. Weight	Kg/Lb	-	-	-	-	4	8.8	7.5	16.5	9	19.8	-	-	18.5	40.7	30	66	

# Forged Steel Check Valve

## Dimensions of Piston Valve

### Y Pattern Welded Cover

761 .Welded Cover - Threaded and Socket Weld Ends

	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.
	L	80	3.15	90	3.15	110	4.33	125	4.92	155	6.1	180	7.09	200	7.87	225	8.86
<b>Bore Diameter</b>	D	7	0.27	9	0.35	12	0.47	15	0.59	21	0.83	27	1.06	32	1.26	39	1.53
<b>n)</b>	H	72	2.83	72	2.83	82	3.23	85	3.35	100	3.93	120	4.72	145	5.71	155	6.10
	Kg/Lb	1.5	3.3	1.5	3.3	1.5	3.3	3.2	7	3.2	7	6	13.2	6.2	13.6	9.5	20.9

### Piston Type Welded Cover

Welded Cover - Threaded and Socket Weld Ends

	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.
	L	-	-	-	-	127	5	155	6.1	170	6.69	-	-	232	9.13	235	9.25
<b>Bore Diameter</b>	D	-	-	-	-	13	0.51	17	0.67	21	0.83	-	-	27	1.06	35	1.37
<b>n)</b>	H	-	-	-	-	80	3.14	98	3.85	110	4.33	-	-	140	5.51	170	6.69
	Kg/Lb	-	-	-	-	5	11	8	17.6	10	22	-	-	21.5	47.3	21.3	46.9

### Piston Type RTJ Cover

RTJ Cover - Threaded and Socket Weld Ends

	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.
	L	-	-	-	-	150	5.9	150	5.9	210	8.26	-	-	235	9.25	235	9.25
<b>Bore Diameter</b>	D	-	-	-	-	13	0.51	17	0.67	21	0.83	-	-	29.5	1.16	35	1.37
<b>n)</b>	H	-	-	-	-	130	5.11	130	5.11	160	6.29	-	-	195	7.67	195	7.67
	Kg/Lb	-	-	-	-	7	15.4	7	15.4	17.5	38.5	-	-	29	63.8	29	63.8

### Class 2500 Y PATTERN Welded Cover

Welded Cover - Threaded and Socket Weld Ends

	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.
	L	80	3.15	90	3.54	110	4.33	125	4.92	155	6.1	180	7.09	200	7.87	225	8.86
<b>Bore Diameter</b>	D	7	0.27	9	0.35	11	0.43	15	0.59	19.5	0.76	27.5	1.08	31.5	1.24	39.5	1.55
<b>en)</b>	H	115	4.52	115	4.52	115	4.52	120	4.72	150	5.9	150	5.9	160	6.3	170	6.69
	Kg/Lb	3.2	7	3.2	7	3.5	7.7	6.2	13.6	5.6	13.6	5.6	13.6	10.4	22.9	14	30.8

# Forged Steel Check Valve

## Dimensions of Piston Valve

### Class 150-300-600 Bolted cover & Integral Flanged Ends

Regular Port - EN ISO 15761. Bolted Cover - Integral Flanged Ends according to ASME B 16.5

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	4.62	127	5	165	6.5	203	8
	Class 300	L	152	6	178	7	203	8	229	9	267	10.
	Class 600	L	165	6.5	190	7.5	216	8.5	241	9.5	292	11.
Bore Diameter	D	9.5	0.37	12.7	0.5	17.5	0.69	28.6	1.13	36.5	1.4	
Center to Top (Open)	H	50	1.97	54	2.13	68	2.68	78	3.07	96	3.7	
Approx. Weight	Class 150	Kg/Lb	2.5	5.5	3.3	7.3	4.3	9.5	9	19.8	13	28.
	Class 300	Kg/Lb	3	6.6	3.8	8.4	5.2	11.5	10.5	23.1	15	33
	Class 600	Kg/Lb	3.5	7.7	4.5	9.9	6	13.2	12	26.4	17	37.

End to End dimensions according to ASME B 16.10

### Class 1500 RTJ Cover & Integral Flanged Ends

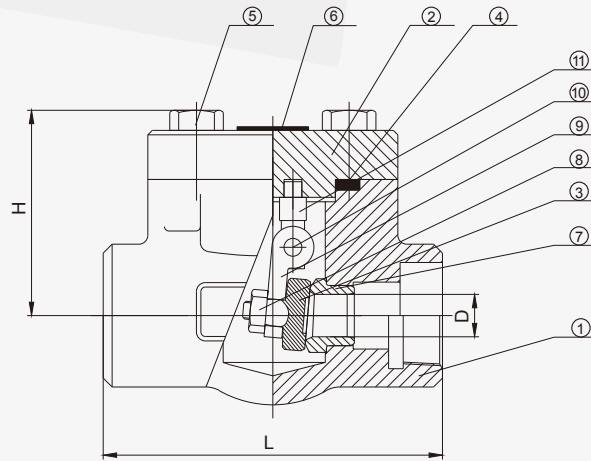
Full Port - EN ISO 15761. RTJ Cover - Integral Flanged Ends according to ASME B 16.5

Full Port	Size	1/2"		3/4"		1"		1-1/2"		2"	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	L	216	8.5	229	9	254	10	305	12	368	14.5
		Bore Diameter	D	13	0.51	17	0.67	21	0.83	33	1.30
Center to Top (Open)	H	100	3.93	130	5.11	145	5.7	160	6.29	195	7.67
Approx. Weight	Kg/Lb	7	15.4	9	19.8	15	33	21	46.2	28	61.6

End to End dimensions according to ASME B 16.10

# Forged Steel Check Valve

## G.A. Drawing & Dimensions of Swing Check Valve



Bolted Cover

### Material List

NO.	Description of Parts	Material				
		Standard	High Temperature	Stainless Steel	Sour Service	Low Temp.
1	BODY	ASTM A105	ASTM A182-F11/F22	ASTM A182-F304/F316	ASTM A105	ASTM A350 LF2
2	BONNET	ASTM A105	ASTM A182-F11/F22	ASTM A182-F304/F316	ASTM A105	ASTM A350 LF2
3	DISC	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F304/F316	ASTM A182-F6a-NC	ASTM A182-F304/F316
4	GASKET	304SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE	304SS/SPIRAL WOUND GRAPHITE	304/316SS/SPIRAL WOUND GRAPHITE
5	STUD	ASTM A193-B7	ASTM A193-B16	ASTM A193-B8	ASTM A193-B7M	ASTM A320-L7M
6	NAME PLATE	ASTM A240-304	ASTM A240-304	ASTM A240-304	ASTM A240-304	ASTM A240-304
7	SEAT RING	ASTM A276-410/STL.OVERLAY	ASTM A276-410/STL.OVERLAY	ASTM A182-F304/F316/STL OVERLAY	ASTM A276-410/STL.OVERLAY-NC	ASTM A182-F304/F316/STL OVERLAY
8	DISC NUT	ASTM A276-304	ASTM A276-304	ASTM A276-304/316	ASTM A276-304	ASTM A276-304/316
9	HINGE	ASTM A216-WCB	ASTM A217-WC6/WC9	ASTM A351-CF8/CF8M	ASTM A216-WCB	ASTM A352 LCB
10	HINGE PIN	ASTM A276-410	ASTM A276-410	ASTM A276-F304/316	ASTM A276-420-NC	ASTM A276-F304/316
11	SUPPORT	ASTM A105	ASTM A182-F11/F22	ASTM A182-F304/F316	ASTM A105	ASTM A182-F304/F316

### Class 800 Swing Type Bolted Cover

Regular and Full Port - EN ISO 15761. Bolted Cover - Threaded and Socket Weld Ends

Regular Port	Size	3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"		-	
	Full Port	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.
				76	2.99	76	2.99	86	3.39	102	4.02	118	4.65	118	4.65	132	5.2
Bore Diameter	D	6.4	0.25	9.5	0.37	12.7	0.5	17.5	0.69	23.8	0.94	28.6	1.13	36.5	1.44	44.5	1.75
Center to Top (Open)	H	48.5	1.91	48.5	1.91	52	2.05	67	2.64	88	3.46	88	3.46	101	3.98	110	4.33
Approx. Weight	Kg/Lb	1	2.2	1	2.2	1.5	3.3	2.5	5.5	4	8.8	4	8.8	7.5	16.5	11	24.2

## Welded Bonnet

Threaded-in and seal-welded bonnet (see Fig 1) is the standard design for Neway welded bonnet valves. Full penetration welding is optional (see Fig 2).

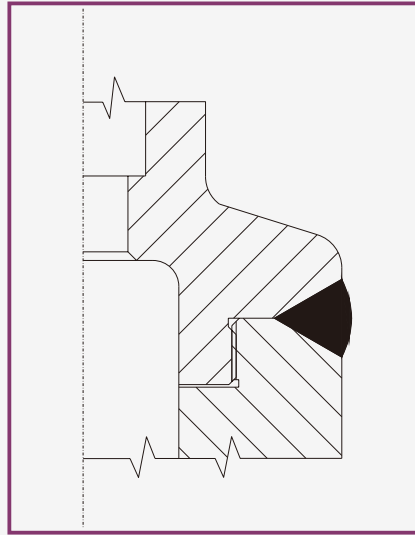


Fig.1

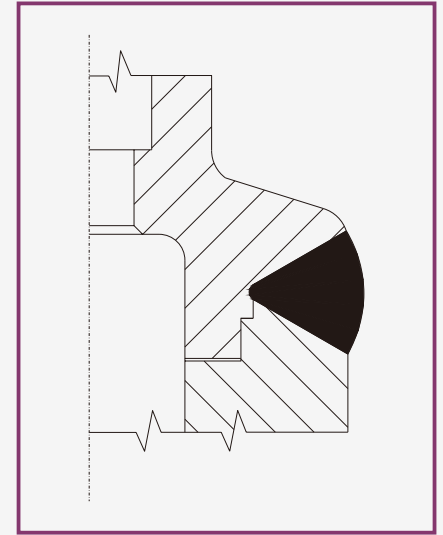


Fig.2

## Gland Bolt

Neway forged steel gate and globe valves are provided with stud and nuts gland assembly (see Fig 3); eyebolts style are optional (see Fig 4).

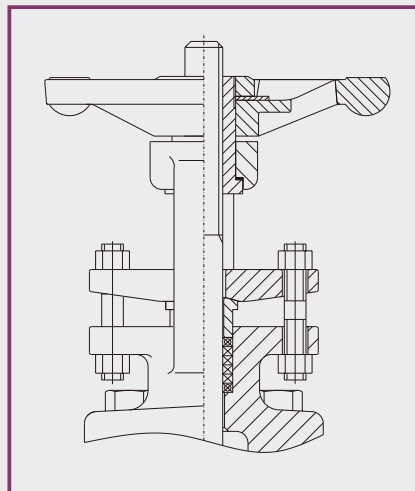


Fig.3

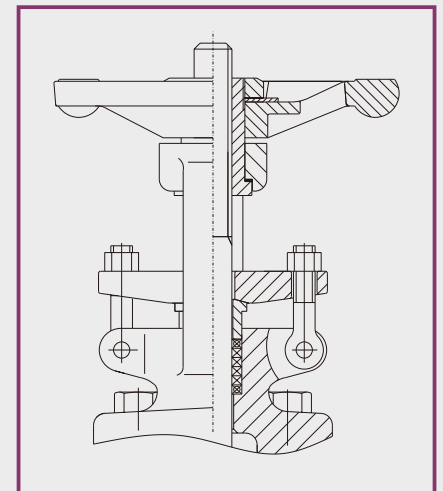


Fig.4

## Bolted Bonnet

RTJ bonnet joint is the standard design for ANSI Class 1500 & 2500 valves (see Fig 5). Male to female bonnet joint is optional for ANSI Class 1500 (see Fig 6).

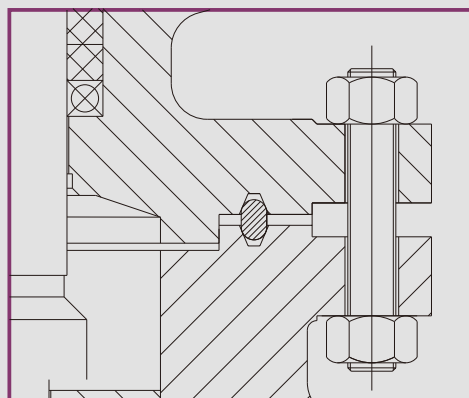


Fig.5

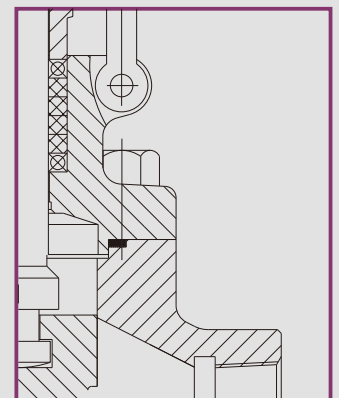


Fig.6

## Product Warranty

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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.



Cat.no.:E-PS



Cat.no.:E-FBV



Cat.no.:E-TMBV



Cat.no.:E-PLV



Cat.no.:E-TOV



Cat.no.:E-DOV



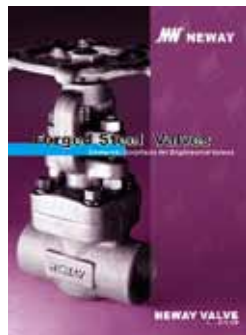
Cat.no.:E-GGC



Cat.no.:E-AV



Cat.no.:E-HPCV



Cat.no.:E-FSV



Cat.no.:E-CSS



Cat.no.:E-CSC

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