

## Forged Steel Valve



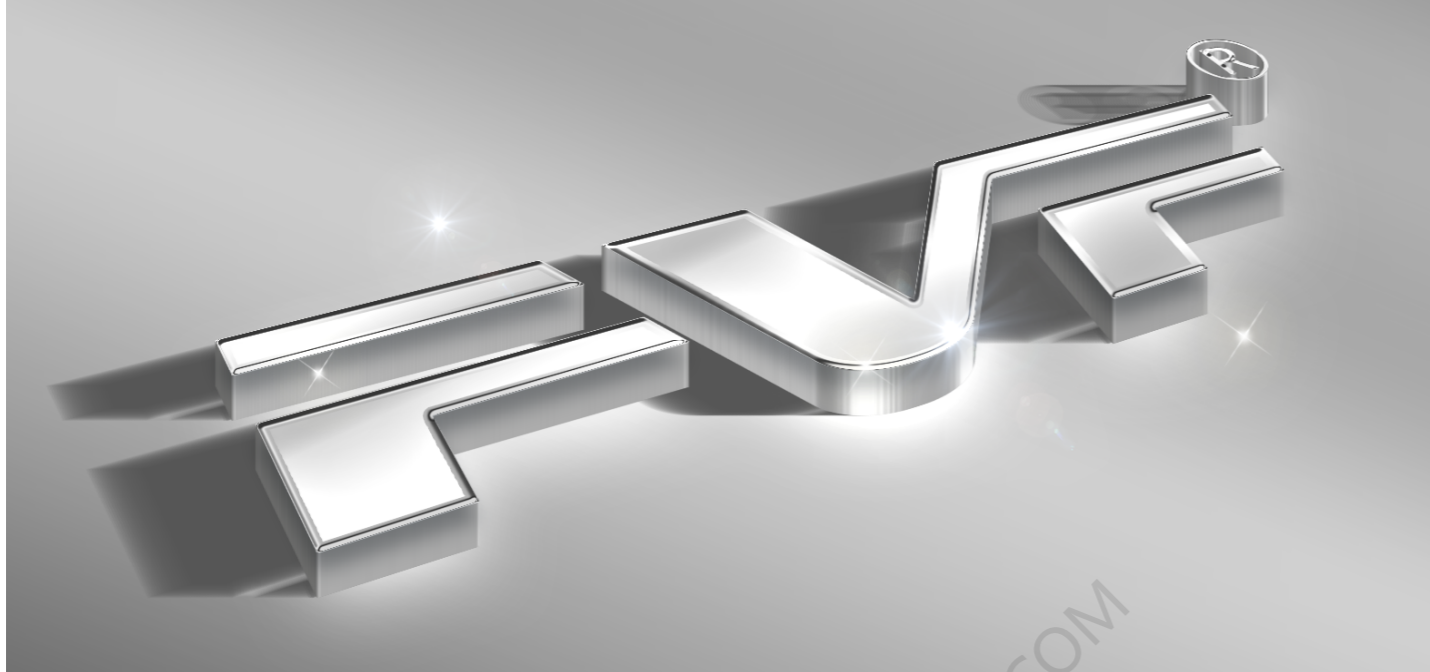
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FVF BRAND, RELIABLE QUALITY FOR YOU  
CE&ISO 9001:2015 CERTIFIED ACQUIRED  
15 YEARS FLUID SOLUTION EXPERIENCES  
EXPORTING TO OVER 40 COUNTRIES  
EXCELLENT VALUE-ADDED SERVICE.



We focus on Details  
We Make Different  
FVF Brand, that can be trust.

FVF Brand Found in year 2010, we specialize in Manufacturing Various Lined Valves, Multi-Port Ball Valve, Control Valves and Pipe Fittings.

The products are mainly widely used in modern anti-corrosion engineering fields such as Lithium Battery, petroleum, chemical industry, pharmacy, printing and dyeing, electrical engineering, ship building, metallurgy, military industry, semiconductor chemistry, electronic phosphoric acid, etc.

Through the years, "Perfection" has been the only goal we pursue. In order to satisfy customers, with continuous efforts, we are working towards perfection through a Quality Assurance System. With over ten years Exporting Experiences, we have the confident to give you best support from pre-sales to after-sales Service.

#### FVF Product Line:

Lined Valves (Lined Butterfly Valve, Lined Ball Valve, Lined Diaphragm Valve etc.)

Ceramic Valves (Ceramic Ball Valve, Ceramic Gate Valve, Ceramic Butterfly Valve etc.)

Pneumatic Valves (Pneumatic Butterfly Valve, Ball Valve etc.)

Electric Valves (Electric Butterfly Valve, Ball Valve etc.)

Multi-Port Ball Valve (3-Way Ball Valve, 4-Way Ball Valve, 5-Way Ball Valve)

Manual Valve (Check Valve, Gate Valve, Globe Valve etc.)

Pipe Fittings (150LBS Thread Pipe Fittings, Butt-Weld Fittings, 3000PSI Pipe Fittings)

Stainless Steel Flanges

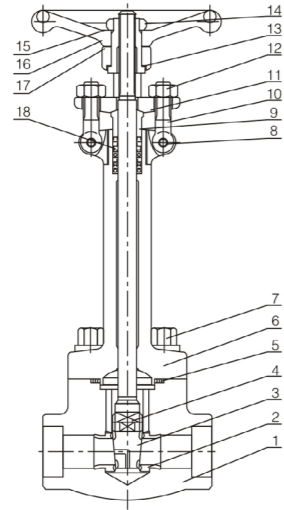
**FVF**<sup>®</sup>  
FVF TECHNOLOGY CO., LIMITED



## Cryogenic Gate/Globe Valve

Our Core Values: Team, Details, Altruism, Innovation and Embrace Change.

Cryogenic gate valve



Application standards

- Design and manufacture conform to: API 602
- Connection ends conform to:
  - Socket welded ends conform to ANSI B16.11, JB/T1751
  - Screw ends conform to ANSI B1.20.1, JB/T7306
  - Butt-welded ends conform to ANSI B16.25, JB/T12224
  - Flange ends conform to ANSI B16.5, JB79
- Test and inspection conform to: API 598; GB/T13927; JB/T9092
- Structure features: Bolted bonnet, outside screw and yoke welded bonnet, outside screw and yoke
- Materials conform to ANSI/ASTM
- Main materials: LF2; LF3; F304(L); F316(L); F347; F321; F51

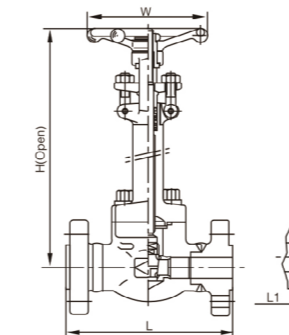
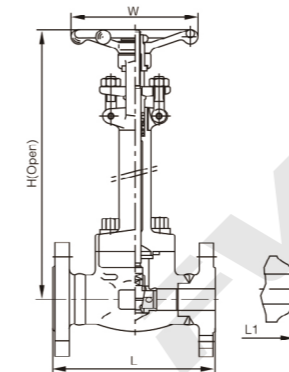
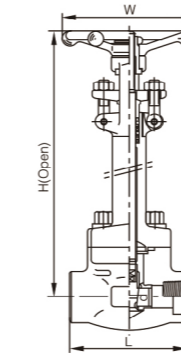
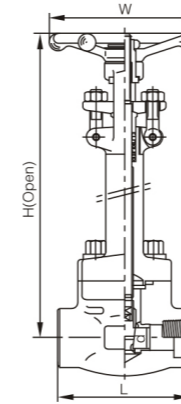
Carbon steel temperature-pressure rate

CL150-285 P.S.I @100 °F	CL800-1975 P.S.I @100 °F
CL300-740 P.S.I @100 °F	CL1500-3705 P.S.I @100 °F
CL600-1480 P.S.I @100 °F	

Material List of Main Parts

NO	Part Name	A105/F6a	A105/F6aHFS	LF2/304	LF3/304	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	-	-	LF2	LF3	F304(L)	F316(L)	F51
2	Seat Ring	-	-	304	304	304(L)	316(L)	F51
3	Wedge Disc	-	-	F304	F304	F304(L)	F316(L)	F51
4	Stem	-	-	304	304	304(L)	316(L)	F51
5	Gasket	-	-	304+ Flexible Graphite	304+ Flexible Graphite	304+ Flexible Graphite	304+ Flexible Graphite	304+ Flexible Graphite
6	Bonnet	-	-	LF2	LF3	F304(L)	F316(L)	F51
7	Bolt	-	-	L7	L7	B8	B8	B8
8	Pin	-	-	410	410	304	304	304
9	Gland	-	-	304	304	304	316	F51
10	Gland Eyebolt	-	-	L7	L7	B8(M)	B8(M)	B8(M)
11	Gland Flange	-	-	LF2	LF3	F304	F304	F304
12	Hex Nut	-	-	2H	2H	8(M)	8(M)	8(M)
13	Stem Nut	-	-	410	410	410	410	410
14	Locking Nut	-	-	35	35	35	35	35
15	Nameplate	-	-	AL	AL	AL	AL	AL
16	Handwheel	-	-	A197	A197	A197	A197	A197
17	Lubricating Gasket	-	-	410	410	410	410	410
18	Packing	-	-	Graphite	Graphite	Graphite	Graphite	Graphite

Cryogenic gate valve



CL800

Bolted bonnet cryogenic extended bonnet, full port & reduced port, OS & Y Threaded, butt-welded or socket welded ends; design to API 602

Specification (NPS)	R . P										
	F.P		-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Face To Face(Mm)	L		79	79	92	111	120	120	140	-	-
Handwheel Diameter (mm)	W		100	100	100	125	160	160	180	-	-
Height (open)(mm)	H	-196	291	291	293	340	375	400	450	-	-
Flow Port Dimension (mm)	d	-40	255	255	258	290	325	265	395	-	-
weight(kg)			3.5	3.5	4.3	6.7	10.9	12	14.8	-	-

CL1500

Bolted bonnet cryogenic extended bonnet, full port & reduced port, OS & Y Threaded, butt-welded or socket welded ends; design to API 602

Specification (NPS)	R . P										
	F.P		-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Face To Face(mm)	L		92	111	111	120	120	140	172	-	-
Handwheel diameter (mm)	W		100	125	125	160	160	180	200	-	-
Height (open)(mm)	H	-196	321	321	322	359	399	446	480	-	-
Flow Port Dimension (mm)	d	-40	285	285	287	309	343	396	420	-	-
weight(kg)			3.5	6.7	6.7	11	12.3	15.8	28	-	-

CL150-300-600

Bolted bonnet cryogenic extended bonnet, reduced port, OS & Y Threaded, butt-welded or socket welded ends; design to API 602

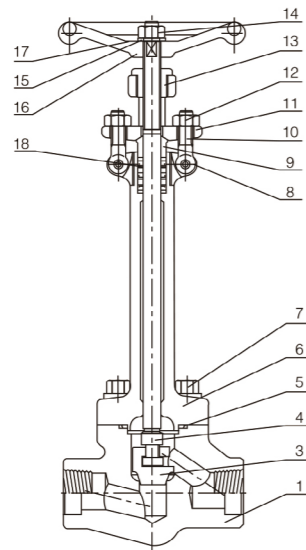
specification (NPS)	R . P										
			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face(mm)	CL150	L(RF), L1(BW)	-	-	108	118	127	-	165	178	-
	CL300		-	-	140	153	165	-	191	216	-
	CL600		-	-	165	191	216	-	241	282	-
Handwheel diameter (mm)	W		-	-	100	100	125	160	160	180	-
Height (open)(mm)	H	-196	-	-	321	322	359	399	446	480	-
	H	-40	-	-	285	287	309	343	396	420	-
Flow port dimension(mm)	d		-	-	10.5	13.5	18	24	29	36.5	-
	CL150	RF	-	-	2.0	5.5	8.8	13.5	15	20.3	-
	BW		-	-	-	-	-	-	-	-	-
weight(kg)	CL300	RF	-	-	5.8	7.3	9.7	12.5	19.5	22.3	-
	BW		-	-	-	-	-	-	-	-	-
	CL600	RF	-	-	6.0	8	11.2	13.5	21.5	24.8	-
	BW		-	-	-	-	-	-	-	-	-

CL1500

Bolted bonnet cryogenic extended bonnet, reduced port, OS & Y Threaded, butt-welded or socket welded ends; design to API 602

specification (NPS)	R . P										
			-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	
Face to face(mm)	L		-	216	229	254	279	325	368	-	-
Handwheel diameter (mm)	W		-	125	125	160	160	180	200	-	-
Height (open) (mm)	H	-196	-	321	322	359	399	446	480	-	-
	H	-40°C	-	285	287	309	343	396	420	-	-
Flow port dimension (mm)	d		-	10.5	13.5	18	24	29	36.5	-	-
weight(kg)			-	14	23	25.3	5.7	47	72	-	-

Cryogenic globe valve



Application standards

- Design and manufacture conform to: API 602
- Connection ends conform to:
  - Socket welded ends conform to ANSI B16.11, JB/T1751
  - Screw ends conform to ANSI B1.20.1, JB/T7306
  - Butt-welded ends conform to ANSI B16.25, JB/T12224
  - Flange ends conform to ANSI B16.5, JB79
- Test and inspection conform to: API598; GB/T13927; JB/T9092
- Structure features:
  - Bolted bonnet, outside screw and yoke
  - Welded bonnet, outside screw and yoke
- Materials conform to ANSI/ASTM
- Main materials: LF2; LF3; F304(L); F316(L); F347; F321; F51

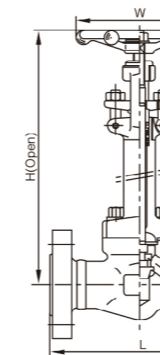
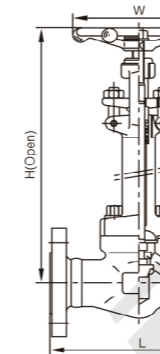
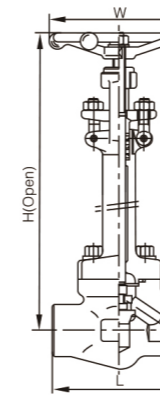
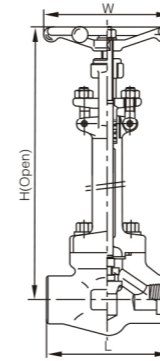
Carbon steel temperature-pressure rate

CL150-285 P.S.I @100 °F	CL800-1975 P.S.I @100 °F
CL300-740 P.S.I @100 °F	CL1500-3705 P.S.I @100 °F
CL600-1480 P.S.I @100 °F	

Material List of Main Parts

NO	Part Name	A105/F6a	A105/F6aHFS	LF2/304	LF3/304	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	-	-	LF2	LF3	F304(L)	F316(L)	F51
2	Seat Ring	-	-	304	304	304(L)	316(L)	F51
3	Wedge Disc	-	-	F304	F304	F304(L)	F316(L)	F51
4	Stem	-	-	304	304	304(L)	316(L)	F51
5	Gasket	-	-	304+ Flexible Graphite	304+ Flexible Graphite	304+ Flexible Graphite	304+ Flexible Graphite	304+ Flexible Graphite
6	Bonnet	-	-	LF2	LF3	F304(L)	F316(L)	F51
7	Bolt	-	-	L7	L7	B8	B8	B8
8	Pin	-	-	410	410	304	304	304
9	Gland	-	-	304	304	304	316	F51
10	Gland Eyebolt	-	-	L7	L7	B8(M)	B8(M)	B8(M)
11	Gland Flange	-	-	LF2	LF3	F304	F304	F304
12	Hex Nut	-	-	2H	2H	8(M)	8(M)	8(M)
13	Stem Nut	-	-	410	410	410	410	410
14	Locking Nut	-	-	35	35	35	35	35
15	Nameplate	-	-	AL	AL	AL	AL	AL
16	Handwheel	-	-	A197	A197	A197	A197	A197
17	Lubricating Gasket	-	-	410	410	410	410	410
18	Packing	-	-	Graphite	Graphite	Graphite	Graphite	Graphite

Cryogenic globe valve



CL800

Bolted bonnet cryogenic extended bonnet, full port & reduced port, OS & Y  
Threaded, butt-welded or socket welded ends; design to API 602

specification (NPS)	R . P		-	1/2	3/4	1	1 1/4	1 1/2	2
	F.P		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
Face to face(mm)	L		79	79	92	111	120	152	172
Handwheel diameter (mm)	W		100	100	100	125	160	160	180
Height (open) (mm)	H		390	390	415	430	460	490	505
	-196°C								
-101°C		350		350		400		410	
-40°C		350		350		400		410	
Flow port dimension (mm)	d		7.0	9.0	13	17.5	23	30	35
weight(kg)			7.2	7.2	7.2	9.5	10.8	13.5	19.8

CL1500

Bolted bonnet cryogenic extended bonnet, full port & reduced port, OS & Y  
Threaded, butt-welded or socket welded ends; design to API 602

specification (NPS)	R . P		-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	
	F.P		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
Face to face(mm)	L		92	111	111	120	152	172	220	-	
Handwheel diameter (mm)	W		125	125	125	160	160	180	200	-	
Height (open) (mm)	H		370	370	370	410	410	474	546	-	
	-196°C										
-101°C		350		350		400		410		425	
-40°C		350		350		400		410		425	
Flow port dimension (mm)	d		12	12	15	20	28	32	40	-	
weight(kg)			9.5	9.5	9.5	10.8	13.5	19.8	20	-	

CL150-300-600

Bolted bonnet cryogenic extended bonnet, reduced port, OS & Y  
Flanged or butt welded ends; design to API 602

specification (NPS)	R . P		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	F.P		-	-	108	118	127	-	165	203	
Face to face(mm)	L(RF)		-	-	153	178	203	-	229	267	
	L1(BW)		-	-	165	191	216	-	241	292	
Handwheel diameter (mm)	W		-	-	100	100	125	-	160	180	
Height (open)(mm)	H		-	-	390	415	430	-	490	505	
	-196°C										
-101°C		-		350		400		410		450	
-40°C		-		350		400		410		450	
Flow port dimension (mm)	d		-	-	9.0	13	17.5	-	30	35	
weight(kg)	CL150		-	-	5	5.8	8.6	-	13.8	24.3	
	CL300		-	-	5.8	6.8	10.3	-	19.3	25.8	
	CL600		-	-	6.3	7.3	10.6	-	20.3	26.8	

CL1500

Bolted bonnet cryogenic extended bonnet, full port, OS & Y  
Flanged or butt welded ends; design to BS5352

specification (NPS)	F . P		-	3/8	1/2	3/4	1	1 1/4	1 1/2
	Face to face(mm)	L		-	-	216	229	254	280
Handwheel diameter (mm)	W		-	-	125	125	160	160	200
Height (open) (mm)	H		-	-	370	370	410	410	546
	-196°C								
-101°C		-		350		400		410	
-40°C		-		350		400		410	
Flow port dimension (mm)	d		-	-	12	15	20	28	40

