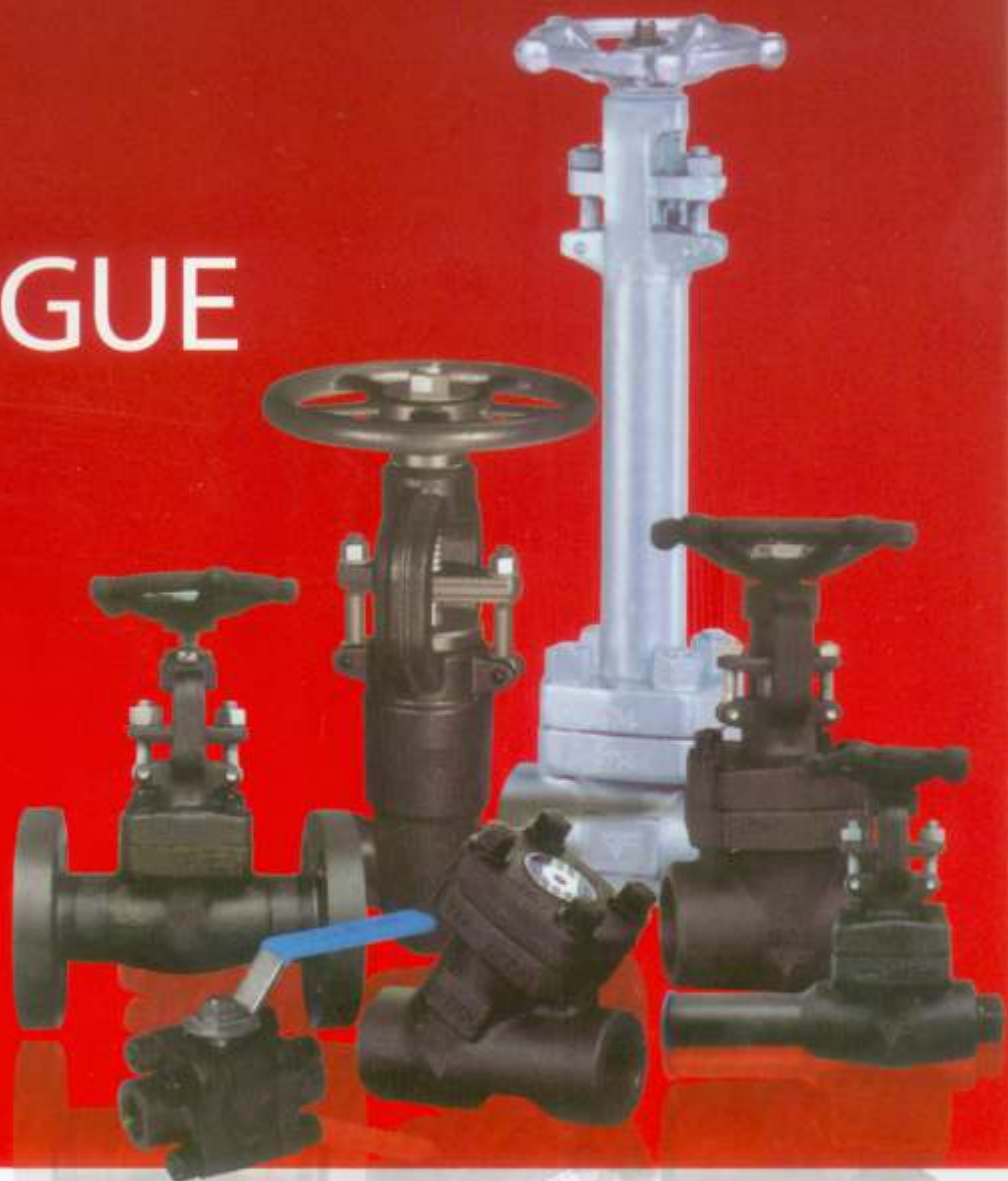


# FORGED STEEL VALVES CATALOGUE



**PANCHVATI VALVES & FLANGES PVT. LTD.**

Create famous brand for International Industry.



AN ISO 9001:2008 COMPANY  
A CRISIS RATED COMPANY



**PANCHVATI VALVES  
& FLANGES PVT. LTD.**

Customer Trust built on Quality  
Since - 1991

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PANCHVATI VALVES  
& FLANGES PVT. LTD.

PLOT NO-F/47



# FORGED STEEL VALVES CATALOGUE

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## Brief Introduction

Panchvati Valves & Flanges Pvt Ltd. Was founded in the Year 1991 and today is an ISO 9001:2008 Certified Company and is an Established manufacturer of Gate, Globe, Check & Ball Valves for various Critical & Non-Critical Application. Over four decades of experience in Valve Industry and commitment to Highest Quality & Prompt Delivery has resulted in making Panchvati Valves one of the Largest Manufacturers of Valves in India.

Today Panchvati Valves has Two Manufacturing Plants, in which the covered Area extends over 22,000 Sq.Ft with further scope of Expansions. These Plants are located in Nashik in the state of Maharashtra, India just 150 Kms away from Mumbai. The Production Capacity of the Valves soared from 3000 Pieces per month in 1991 to current 18,000 pieces per month with Modern State of the Art Machining Facilities and Manufacturing Technology. Panchvati Valves continuous investment in the development of new technologies and equipment has resulted in the growth and the on-going success of the Organisation. Panchvati Valves line of Production includes standard as well as some of the most sophisticated import substitutes of valve products in the world.

Panchvati Valves Forged Steel & Cast Steel Valves are manufactured and Tested by experts with more than 35 years of experience in the Valve Manufacturing Industry. Founded in 1991 Panchvati Valves have gained superiority in several leading Process Plants, Oil and Gas Refineries and Power Plants all over India, Europe, USA and Middle East. Panchvati Valves have been recognised by leading consultants and inspecting Agencies like Toyo Engineering Ltd., Uhde India Ltd., Thyssenkrupp India Ltd., Engineers India Ltd., Technimont TICB., Jacobs DNV/TUV/SGS/BV/PDIL Export Inspection Agencies etc.

Panchvati Valves range of Valves includes Forged Steel and Cast Steel Gate Valves, Globe Valves and Check Valves from 1/4 to 2" Rating 150#, 300#, 600#, 800#, 900#, 1500#, 2500# & 4500# in Forging, And 2" to 48" Rating 150#, 300#, 600#, 900#, 1500# & 2500# in Casting. Today Panchvati Valves has an Envious reputation for High Pressure and High Precision Valves with Sturdy Construction and Excellent Workmanship including Uniform Stellite on a very Large Scale.

An Emphasis on quality, focussed business approach and innovative in-house development have catapulted Panchvati Valves into the forefront of Valve Manufacturers. We are confident that the performance of our Valves coupled with our Exemplary Service to our Customers has been at the Root of our Success. Our Endeavour has always been to better ourselves and realize our vision of becoming a World Class Valve Manufacturer. While Presenting this Product Catalogue we would like to express our most sincere gratitude to all our Customers who have made it possible for us to make our Dreams into Reality.

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## Our Exports to Major Countries



Service & support in the global market has been an integral part of Panchvati since inception and our reach has extended to all major countries.

For support, Services and Online Tracking, <http://www.panchvativalves.com>

## Quality Guarantee

"Brand-new equipment, Leading the future". Advanced equipments and excellent technology are the premises of stepping to success. Since Panchvati Valves founded in 1991, has been dedicated itself to a upcoming with the developing steps of the advanced equipments, which is the basic of Panchvati Valves keeping ahead at every step from the beginning, and also the warranty of providing so many customers with quick-delivery and good-quality products.





## Forged steel gate valves

PANCHVATI Valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304L/graphite. Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available. The third design is the pressure seal bonnet, with a threaded and pressure seal bonnet joint.

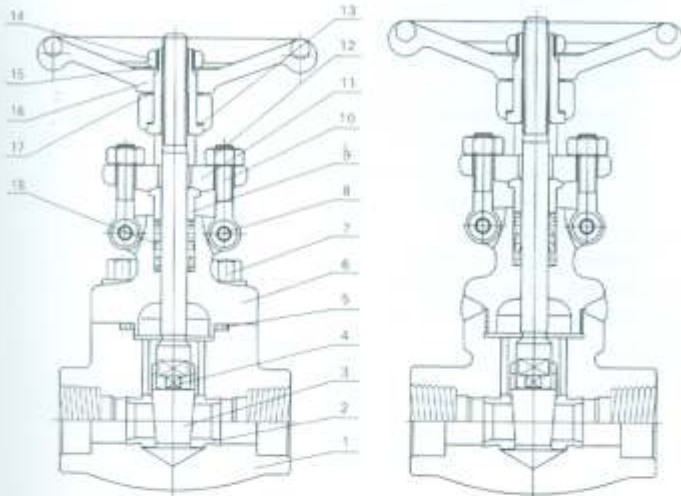
### Construction is as follows

- Full port or conventional port;
- Outside screw and yoke (OS & Y);
- Two piece self-aligning packing gland;
- Bolted bonnet & spiral-wound gasket seal bonnet;
- Bolted bonnet with spiral-wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet;
- Integral backseat;
- Socket weld ends to ASME B16.11 ;
- Screwed ends (NPT) to ANSI/ASME B1.20.1.





## Female threaded and socket welded gate valves



### Application standards

1. Design and manufacture conform to API 602, BS5352, ANSI B16.34, EN10204
2. Connection ends conform to:
  - 1) Socket welded dimension conform to ANSI B16.11; JB/T1751
  - 2) Screw ends dimension conform to ANSI B1.20.1; JB/T7306
  - 3) Butt-welded conform to ANSI B16.25; JB/T12224
  - 4) Flanged ends conform to ANSI B16.5; JB79
3. Test and inspection conform to; API 598; GB/T13927; JB/T9092
4. Structure features: Bolted bonnet, outside screw and yoke welded bonnet, outside screw and yoke
5. Materials conform to ANIS/ASTM.
6. Main material: A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 Alloy.

### Carbon steel temperature-pressure rate

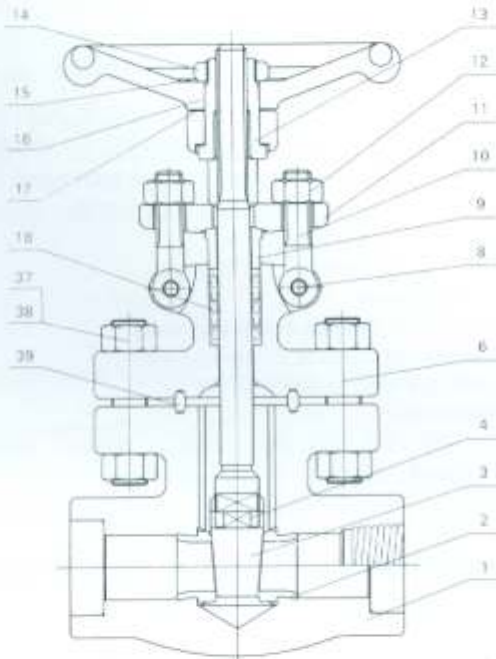
- CL150-285 PS.I @ 100° F
- CL300-740 PS.I @ 100° F
- CL600-1480 PS.I @ 100° F
- CL800-1975 PS.I @ 100° F
- CL1500-3705 PS.I @ 100° F

### Main part materials list

No.	Part name	A 105/F6a	A 105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Seat	410	410HF	304	410HF	304(L)	316(L)	F51
3	Wedge	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	416	416	416	416	416	416	416
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
17	Lubricating gasket	410	410	410	410	410	410	410
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite



## Female threaded and socket welded gate valves



### Application standards

- Design and manufacture conform to  
API 602; BS5352; ANSI B16.34; EN10204
- 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
  - Flanged 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 material:  
A105; LF2; F5; F11; F22; 304(L); 316(L); F347;  
F321; F51; Monel; 20 Alloy.

### Carbon steel temperature-pressure rate

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

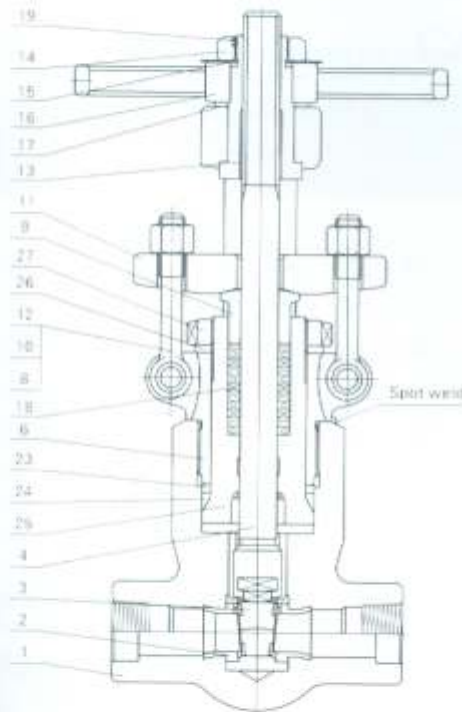
### Main part materials list

No.	Part name	A 105/F6a	A 105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Seat	410	410HF	304	410HF	304(L)	316(L)	F51
3	Wedge	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	416	416	416	416	416	416	416
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
17	Lubricating gasket	410	410	410	410	410	410	410
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
37	Screwed stud	B7	B7	L7	B16	B8(M)	B8(M)	B8M
38	Nut	2H	2H	8	8	8(M)	8(M)	8(M)
39	Metal ring	304	304	304	304	304(L)	316(L)	F51





## Pressure sealing gate valves



### Application standards

- Design and manufacture conform to  
API 602, BS5352, ANSI B16.34, EN10204
- Connection ends conform to:
  - Socket welded dimension conform to ANSI B16.11; JB/T1751
  - Screw ends dimension conform to ANSI B1.20.1; JB/T7306
  - Butt-welded conform to ANSI B16.25; JB/T12224
  - Flanged ends conform to ANSI B16.5; JB79
- Test and inspection conform to:  
API 598; GB/T13927; JB/T9092
- Structure features:  
A threaded and pressure seal bonnet
- Materials conform to ANSI/ASTM.
- Main materials:  
A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321;  
F91; Monel; 20 Alloy.

### Carbon steel temperature-pressure rate

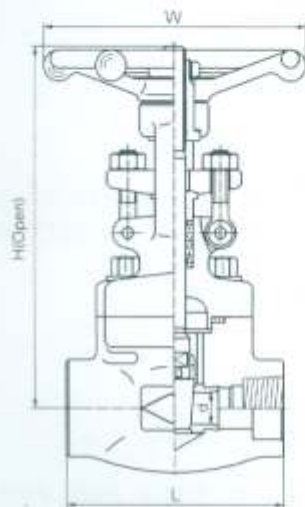
CL1500-3705 PS.I@100°F  
CL2500-6170 PS.I@100°F

### Main part materials list

No.	Part name	A 105/F6a	A 105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Seat	410	410HF	304	410HF	304(L)	316(L)	F51
3	Wedge	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	416	416	416	416	416	416	416
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
17	Lubricating gasket	410	410	410	410	410	410	410
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
19	Stop nut	35	35	35	35	35	35	35
23	Seal gasket	420	420	304	304	304(L)	316(L)	420
24	PS.ring	304	304	304	304	304	316	316
25	PS.seat	420	420	304	304	304(L)	316(L)	F91
26	Nut pad	410	410	410	410	410	410	410
27	Packing nut	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel



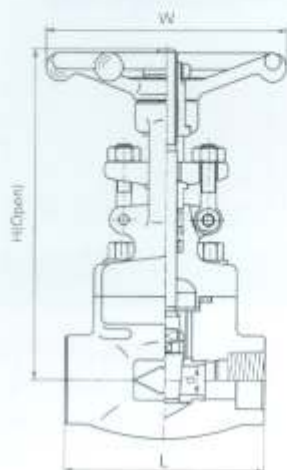
## Female threaded and socket welded gate valves



### CL800

Bolted bonnet, full port reducing port outside screw and yoke(OS & Y) Threaded, butt-welded or socket welded ends; design to API 602

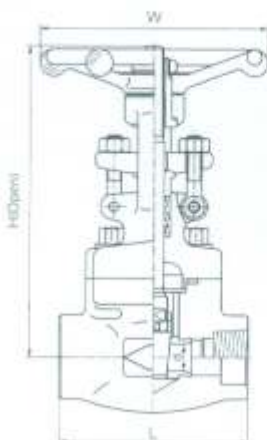
Specification (NPS)		R.P								
		-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Face to Face	L	79	79	92	111	120	120	140	178	186
Handwheel diameter	W	100	100	100	125	160	160	180	200	220
Height	H	161	161	163	196	223	251	290	333	370
Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	51
Weight		2.3	2.22	2.39	4.24	5.7	7.05	10.9	16.8	24



### CL800

welded bonnet, full port reducing port outside screw and yoke(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	3
Face to Face	L	79	79	92	111	120	120	140	178	186
Handwheel diameter	W	100	100	100	125	160	160	180	200	220
Height	H	161	161	163	196	223	251	290	333	370
Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	51
Weight		1.9	1.9	2.1	3.2	5.2	6.9	10.4	15.8	22



### CL900-CL 1500

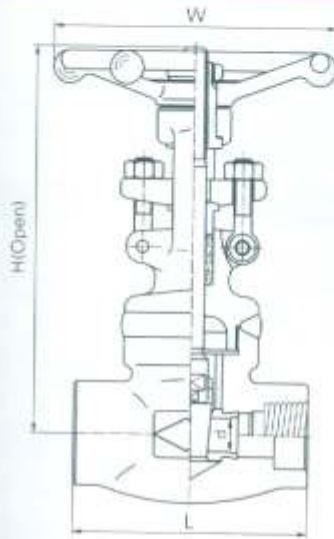
Bolted bonnet, full port reducing port outside screw and yoke(OS & Y) Threaded, butt-welded or socket welded ends; design to API 602

Specification (NPS)		R.P								
		-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Face to Face	L	92	111	111	120	120	140	178	180	
Handwheel diameter	W	100	125	125	160	160	180	200	220	
Height	H	191	191	192	219	243	296	316	370	
Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	
Weight		2.4	4.4	4.3	6	7.2	11	16	23	



PANCHVATI VALVES Create famous brand for international industry.

## Female threaded and socket welded gate valves

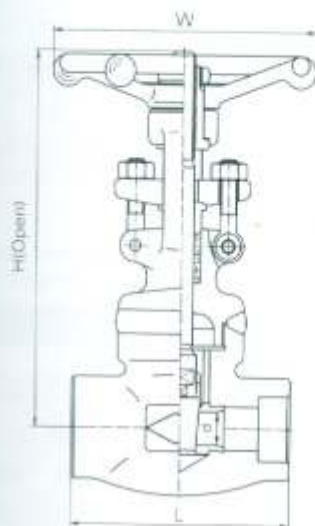


### CL900-CL 1500

Welded bonnet, full port reducing port outside screw and yoke(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	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2

Face to Face	L	92	111	111	120	120	140	178	180	-
Handwheel diameter	W	100	125	125	160	160	180	200	220	-
Height	H	191	191	192	219	243	296	316	370	-
Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	-
Weight		2.3	4	4	4.8	7.1	11	16	22.8	-

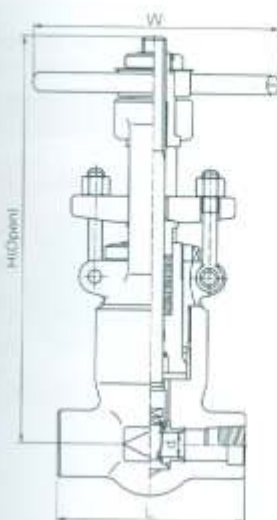


### C2500

Welded bonnet, full port outside screw and yoke(OS &Y) Socket welded ends, design conform to ASME B16.34

Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1 1/2	2
---------------------	-----	-----	-----	-----	-----	---	-------	---

Face to Face	L		111	120	120	120	140	
Handwheel diameter	W		125	160	160	180	220	
Height	H		215	218	220	238	281	
Flow port dimension	d		14	14	14	19	25	
Weight			7	8.7	8.5	11.7	17	



### C1500-CL2500

Pressure seal bonnet, full port outside screw and yoke(OS &Y) Socket welded ends, design conform to ASME B16.34

Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
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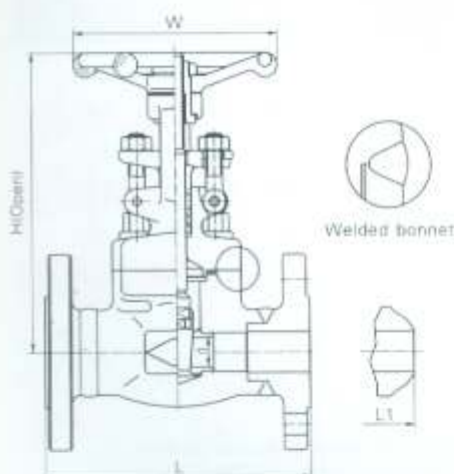
Face to Face	L	CL900~1500	140	140	140	140	178	178	216
		CL2500	186	186	186	186	232	232	279
Handwheel diameter	W	CL900~1500	200	200	200	200	280	280	300
		CL2500	200	200	200	200	280	280	300
Height	H	CL900~1500	318	318	318	322	467	468	540
		CL2500	325	325	325	327	467	468	540
Flow port dimension	d	CL900~1500	14	14	14	19	25	30	36.5
		CL2500	14	14	14	19	25	30	36.5
		CL900~1500	11.5	11.5	10.8	10.5	19.6	21.0	55.4
Weight		CL2500	12.3	12.3	11.6	10.8	26.0	28.4	60.0



## Forged steel flange gate valves

Boiled bonnet, reducing port outside screw and yoke (OS & Y) Flange-welded or butt-welded ends; design to API 602; BS5352

### CL150-300-600

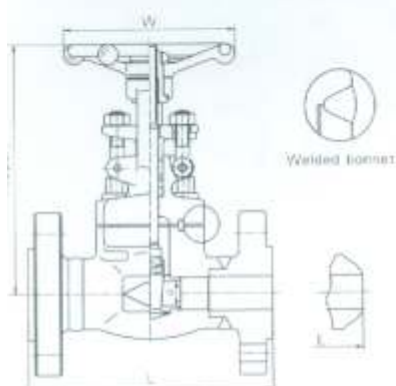


Specification (NPS)		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	
Face to face	CL 150	-	-	108	117	127	140	165	178	191	
	CL 300	-	-	140	152	165	178	190	216	241	
	CL 600	-	-	165	190	216	229	241	292	338	
Handwheel diameter	W	-	-	100	100	125	160	160	180	200	
Height	CL 150	-	-	176	184	217	226	250	290	338	
	CL300,CL600	-	-	161	163	196	226	250	290	338	
Height (angle dimensions)	d	-	-	10	13.5	18	24	29	36.5	45	
Weight (Kg)	CL 150	RF	-	-	3.4	3.98	6.1	27.2	10.4	15.5	21
		BW	-	-	2.8	3.3	5.4	7.1	8.2	12.5	21
	CL 300	RF	-	-	3.77	4.89	7.2	39.6	12.64	18	21
		BW	-	-	3.5	4.4	6.8	8.1	9.2	15.4	21
	CL 600	RF	-	-	4.2	5.8	8.8	12.1	15.6	19.5	33
		BW	-	-	4.5	5.1	8.2	10.5	12.4	20.1	33

If you want to order one piece body, please contact with sale department

### CL900-CL1500

Welded bonnet, full port outside screw and yoke(OS & Y) Flange-welded or butt-welded ends; design to BS 5352

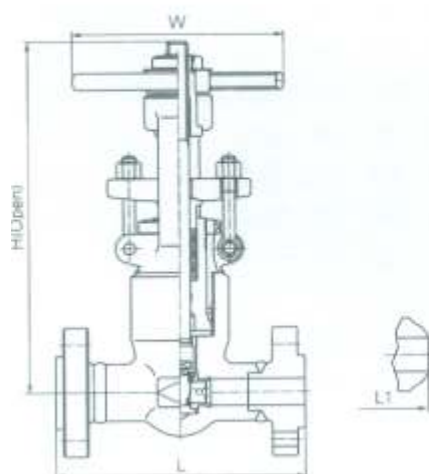


Specification (NPS)		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L(RF),L1(BW)	-	-	216	229	254	279	305	368	
	L(RT,J)	-	-	216	229	254	279	305	371	
Handwheel diameter	W	-	-	125	125	160	180	200	220	
Height	H	-	-	191	192	219	257	296	316	
Flow port dimension	d	-	-	13.5	18	24	29	36.5	45	
Weight(Kg)		-	-	7.2	11.5	15.6	16.2	22.6	26.2	

If you want to order one piece body, please contact with sale department

### CL2500

Pressure seal gate valves, full port outside screw and yoke(OS & Y) Flange-welded or butt-welded ends; design to ASME B16.34



Specification (NPS)		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L(RF),L1(BW)	-	-	264	273	308	-	384	451	
	L(RT,J)	-	-	264	273	308	-	387	454	
Handwheel diameter	W	-	-	200	200	200	-	280	300	
Height	H	-	-	325	325	327	-	478	540	
Flow port dimension	d	-	-	13.5	13.5	19	-	30	36.5	
Weight(Kg)		-	-	4.6	6.8	7.6	-	15	21.9	



PANCHVATI VALVES Create famous brand for International Industry.

## Forged steel globe valves

PANCHVATI Valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304L/graphite. Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available. The third design is the pressure seal bonnet, with a threaded and pressure seal bonnet joint.

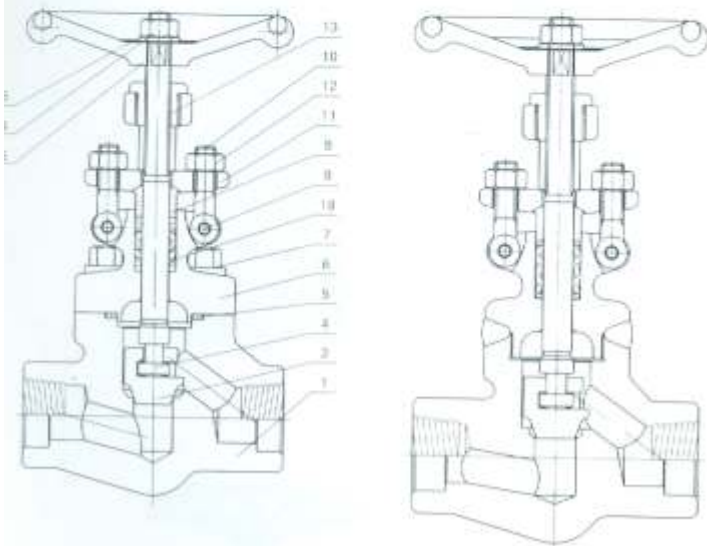
### Construction is as follows

- Full port or conventional port;
- Outside screw and yoke OS & Y);
- Two piece self-aligning packing gland;
- Bolted bonnet & spiral wound gasket, threaded and seal
- welded bonnet or threaded and pressure seal bonnet;
- Integral backseat;
- Socket weld ends to ASME B16.11 ;
- Screwed ends (NPT) to ANSI/ASME B1.20.1;
- Disc can change for throttle type, needle type, ball type and check type





## Female threaded and socket welded gate valves



### Application standards

1. Design and manufacture conform to BS5352 MSS SP-118
2. Connection ends conform to:
  - 1) Socket welded end conform to ANSI B16.11; JB/T1751
  - 2) Screw ends dimension conform to ANSI B1.20.1; JB/T7306
  - 3) Butt-welded conform to ANSI B16.25; JB/T12224
  - 4) Flanged ends conform to ANSI B16.5; JB79
3. Test and inspection conform to: API 598; GB/T13927; JB/T9092
4. Structure features: Bolted bonnet, outside screw and yoke / welded bonnet, outside screw and yoke
5. Materials conform to ANIS/ASTM.
6. Main material: A105; LF2; F5; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 Alloy.

### Carbon steel temperature-pressure rate

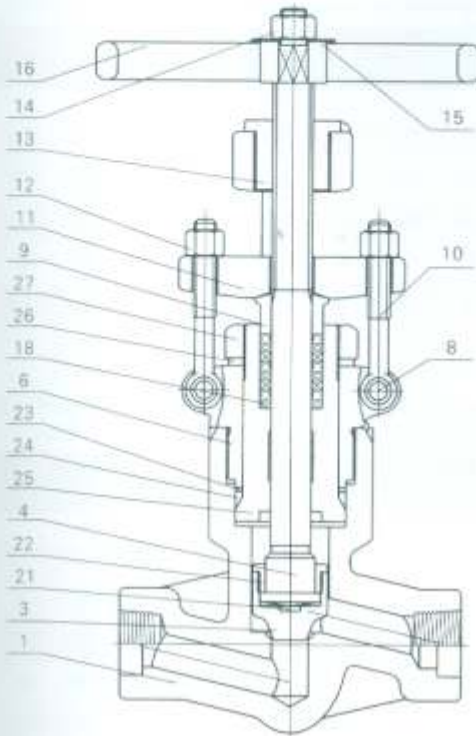
CL150-285 PS.I @ 100° F  
 CL300-740 PS.I @ 100° F  
 CL600-1480 PS.I @ 100° F  
 CL800-1975 PS.I @ 100° F  
 CL1500-3705 PS.I @ 100° F

### Main part materials list

No	Part Name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F5
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51\
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51\
4	Stem	410	410	304	410	304(L)	316(L)	F5
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Pin	410	410	410	410	304	304	304\
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	416	416	416	416	416	416	416
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite



## Pressure sealing globe valves



### Application standards

- Design and manufacture conform to  
API 602; BS5352; ANSI B16.34; EN10204
- Connection ends conform to:
  - Socket welded dimension conform to ANSI B16.11; JB/T1751
  - Screw ends dimension conform to ANSI B1.20.1; JB/T7306
  - Butt-welded conform to ANSI B16.25; JB/T12224
  - Flanged 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 ANIS/ASTM.
- Main material:  
A105; LF2; F5; F22; 304(L); 316(L); F347; F321;  
F51; Monel; 20 Alloy.

### Carbon steel temperature-pressure rate

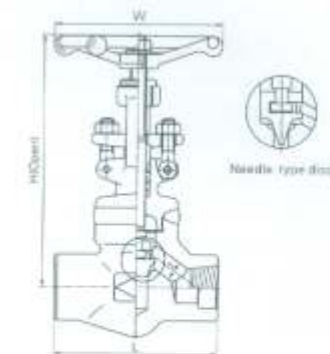
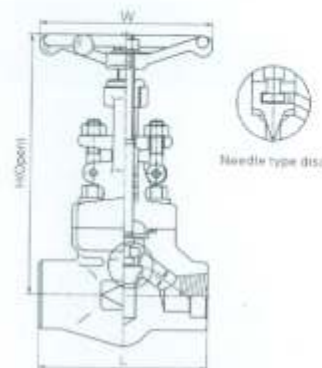
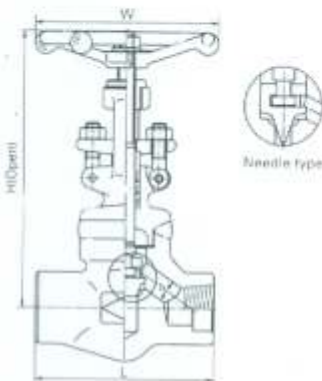
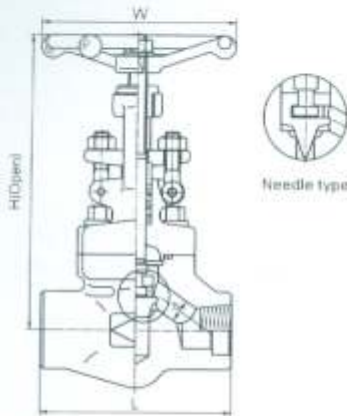
CL1500-3705 PS.I @ 100° F  
CL2500-6170 PS.I @ 100° F

### Main part materials list

No	Part Name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F91/410HF
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F91+HF
3	Disc	410	410	304	410	304(L)	316(L)	410+HF
4	Stem	410	410	304	410	304(L)	316(L)	410
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F91
8	Pin	410	410	410	410	304	304	410
9	Gland	410	410	304	410	304	316	410
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8
11	Gland flange	A105	A105	LF2	F11	F304	F304	F91
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8
13	Stem nut	416	416	416	416	416	416	416
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
21	Stem pad	420	420	420	420	316SH	316SH	420
22	Disc nut	410	410	410	410	304(L)	316(L)	410
23	Seal	420	420	304	304	304(L)	316(L)	316(L)
24	PS. ring	304	304	304	304	304	316	304
25	PS. seat	420	420	304	304	304(L)	316(L)	F91
26	Nut pad	410	410	410	410	410	410	410
27	Draw-in stud	Cart steel	Cart steel	Cart steel	Cart steel	Stainless steel	Stainless steel	Cart steel



## Female threaded and socket welded globe valves



### CL800

Bolted bonnet, full port reducing port outside screw and yoke(OS &Y) Threaded, butt-welded or socket welded ends; design to BS 5352

Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	79	79	92	111	120	152	172	200	220
Handwheel diameter	W	100	100	100	125	160	160	180	200	240
Height	H	164	164	164	203	224	260	300	355	370
Flow port dimension	d	7	9	13	17.5	23	30	35	46	45
Weight		1.9	2.28	2.37	4.3	5.75	7.8	12.5	17.5	21.9

### CL800

welded bonnet, full port & reducing port outside screw and yoke(OS &Y) Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	79	79	92	111	120	152	172	200	220
Handwheel diameter	W	100	100	100	125	160	160	180	200	240
Height	H	164	164	164	203	224	260	300	355	370
Flow port dimension	d	7	9	13	17.5	23	30	35	46	45
Weight		1.7	1.7	1.9	3.3	5.2	6.8	10.6	13.8	17.5

### CL900-CL 1500

Bolted bonnet, full port reducing port outside screw and yoke(OS &Y) Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	92	111	111	120	152	172	200	220	240
Handwheel diameter	W	100	125	125	160	160	180	200	240	240
Height	H	171	207	207	240	258	330	355	370	370
Flow port dimension	d	7	12	15	20	28	32	40	45	45
Weight		2.3	3.7	3.6	6.8	7.6	11.6	15	21.9	21.9

### CL900-CL 1500

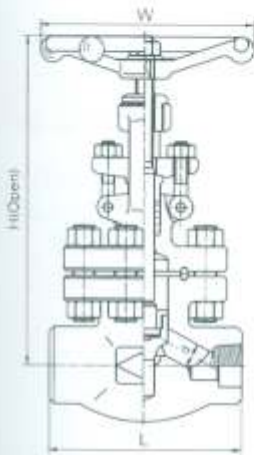
Welded bonnet, full port reducing port outside screw and yoke(OS &Y) Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	92	111	111	120	152	172	200	220	240
Handwheel diameter	W	100	125	125	160	160	180	200	240	240
Height	H	171	207	207	240	258	330	355	370	370
Flow port dimension	d	7	12	15	20	28	32	40	45	45
Weight		2.3	3.7	3.6	6.8	7.6	11.6	15	21.9	21.9





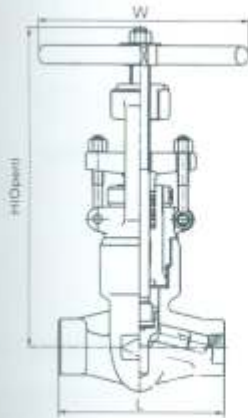
## Female threaded and socket welded globe valves



### CL900-CL 1500

Bolted bonnet, full port outside screw and yoke (OS &Y) Threaded, butt-welded or socket welded ends; design to BS5352

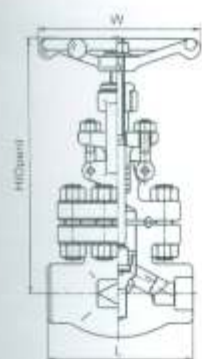
Specification (NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	110	110	150	150		210	235
Handwheel diameter	W	110	110	130	210		180	250
Height	H	227	227	300	307		40	448
Flow port dimension	d	9	12	15	20		32	40
Weight		5	5	10	11.5		22	37



### CL900-CL 1500

Pressure seal bonnet, full port outside screw and yoke (OS &Y) Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	140	140	140	178	178	216	
Handwheel diameter	W	200	200	200	280	280	300	
Height	H	320	320	320	440	440	490	
Flow port dimension	d	12	15	20	28	32	40	
Weight		11.5	10.8	10.5	19.6	21.1	55.4	



Welded bonnet

### C2500

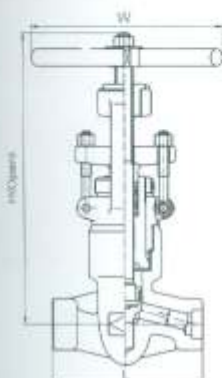
Bolted bonnet, full port outside screw and yoke (OS &Y) Socket welded ends, design conform to ASME B16.34

Specification (NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	150	150	210		235	235	
Handwheel diameter	W	130	130	250		300	300	
Height	H	293	300	390		435	435	
Flow port dimension	d	11	14	19		28	35	
Weight		10	10.3	22.4		38	38	

### C2500

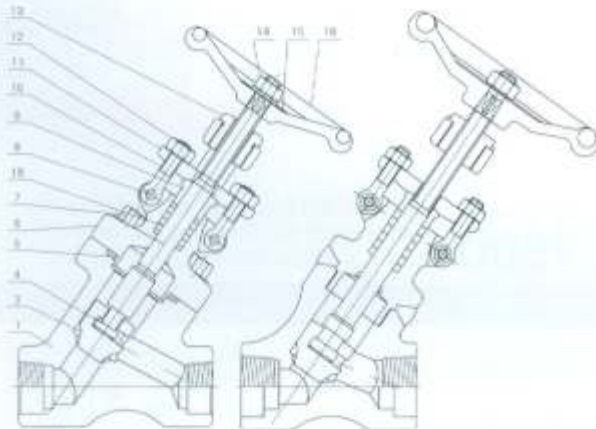
Pressure seal bonnet, full port outside screw and yoke (OS &Y) Socket welded ends, design conform to ASME B16.34

Specification (NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	186	186	186	232	232	279	
Handwheel diameter	W	200	200	200	280	280	300	
Height	H	375	378	380	490	490	540	
Flow port dimension	d	11	14	19	25	28	35	
Weight		12.3	11.6	10.8	26.0	28.4	60	





## Female threaded and socket welded Y type globe valves



### Application standards

- Design and manufacture conform to BS5352 MSS SP-118
- Connection ends conform to:
  - Socket welded end conform to ANSI B16.11; JB/T1751
  - Screw ends dimension conform to ANSI B1.20.1; JB/T730
  - Butt-welded conform to ANSI B16.25; JB/T12224
  - Flanged 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 ANIS/ASTM.
- Main material: A105; LF2; F5; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 Alloy.

### Carbon steel temperature-pressure rate

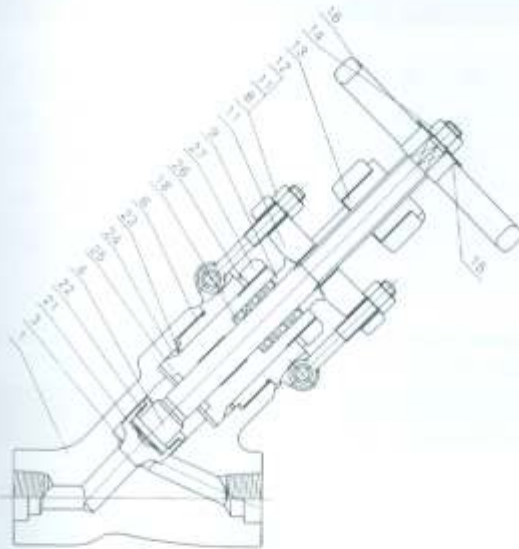
- CL150-285 PS.I @ 100° F  
 CL300-740 PS.I @ 100° F  
 CL600-1480 PS.I @ 100° F  
 CL800-1975 PS.I @ 100° F  
 CL1500-3705 PS.I @ 100° F

### Main part materials list

No	Part Name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	416	416	416	416	416	416	416
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite



## Pressure seal Y type globe valves



### Application standards

1. Design and manufacture conform to BS5352 MSS SP-118
2. Connection ends conform to:
  - 1) Socket welded end conform to ANSI B16.11; JB/T1751
  - 2) Screw ends dimension conform to ANSI B1.20.1; JB/T7306
  - 3) Butt-welded conform to ANSI B16.25; JB/T12224
  - 4) Flanged ends conform to ANSI B16.5; JB79
3. Test and inspection conform to: API 598; GB/T13927; JB/T9092
4. Structure features:  
Bolted bonnet, outside screw and yoke  
welded bonnet, outside screw and yoke
5. Materials conform to ANIS/ASTM.
6. Main material:  
A105; LF2; F5; F22; 304(L); 316(L); F347; F321;  
F51; Monel; 20 Alloy.

### Carbon steel temperature-pressure rate

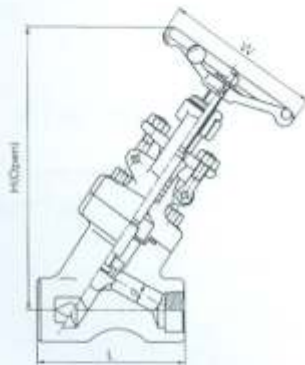
CL1500-3705 PS.I @ 100 F

CL2500-6170 PS.I @ 100 F

### Main part materials list

No	Part Name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F91/410HF
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F91+HF
3	Disc	410	410	304	410	304(L)	316(L)	410+HF
4	Stem	410	410	304	410	304(L)	316(L)	410
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F91
8	Pin	410	410	410	410	304	304	410
9	Gland	410	410	304	410	304	316	410
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8
11	Gland flange	A105	A105	LF2	F11	F304	F304	F91
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8
13	Stem nut	416	416	416	416	416	416	416
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
21	Stem pad	420	420	420	420	316SH	316SH	420
22	Disc nut	410	410	410	410	304(L)	316(L)	410
23	Seal	420	420	304	304	304(L)	316(L)	316(L)
24	PS. ring	304	304	304	304	304	316	304
25	PS. seat	420	420	304	304	304(L)	316(L)	F91
26	Nut pad	410	410	410	410	410	410	410
27	Draw-in stud	Cart steel	Cart steel	Cart steel	Cart steel	Stainless steel	Stainless steel	Cart steel

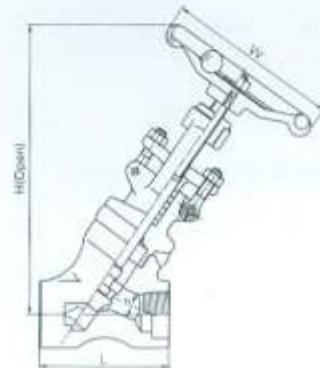
## Y type globe valves



### CL800

Welded bonnet, full port & reducing port outside screw and yoke(OS & Y) Threaded, butt-welded or socket welded ends; design to BS 5352

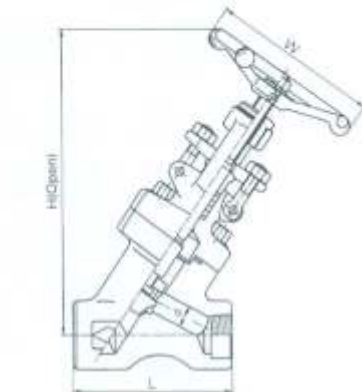
Specification (NPS)		R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
		F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	98	98	98	111	140	140	155	170		
Handwheel diameter	W	100	100	100	125	160	160	180	200		
Height	H	180	180	188	203	280	280	295	350		
Flow port dimension	d	7	9	13	17.5	23	30	35	46		
Weight		2.6	2.6	3.8	4.6	9.3	9.3	14	19.6		



### CL800

Welded bonnet, full port & reducing port outside screw and yoke(OS & Y) Threaded, butt-welded or socket welded ends; design to BS5352

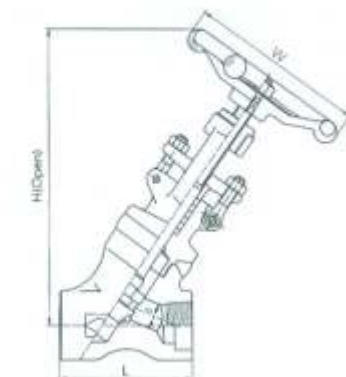
Specification (NPS)		R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
		F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	79	79	92	100	140	140	155	170		
Handwheel diameter	W	100	100	100	125	160	160	180	200		
Height	H	198	198	198	207	280	280	295	350		
Flow port dimension	d	7	9	13	17.5	23	30	35	46		
Weight		1.8	1.8	2.0	3.5	8.0	8.0	12	19.5		



### CL900-CL 1500

Bolted bonnet, full port & outside screw and yoke (OS & Y) Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	98	111	111	140	140	155	170	
Handwheel diameter	W	100	125	125	160	160	180	200	
Height	H	175	175	215	215	254	305	40	
Flow port dimension	d	9	12	15	20	28	32	40	
Weight		2.6	4.6	4.6	9.3	9.3	14	19.6	



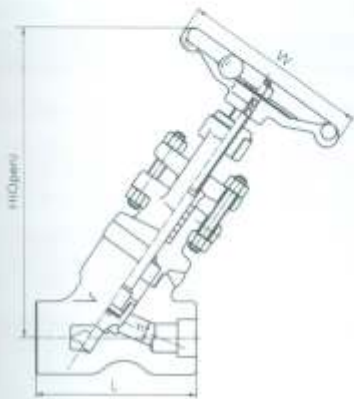
### CL900-CL 1500

Welded bonnet, full port & outside screw and yoke(OS & Y) Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L	92	100	100	140	140	155	170	
Handwheel diameter	W	100	125	125	160	160	180	200	
Height	H	175	207	207	280	280	295	350	
Flow port dimension	d	9	12	15	20	28	32	40	
Weight		1.8	3.5	3.5	8.0	8.0	12	16	



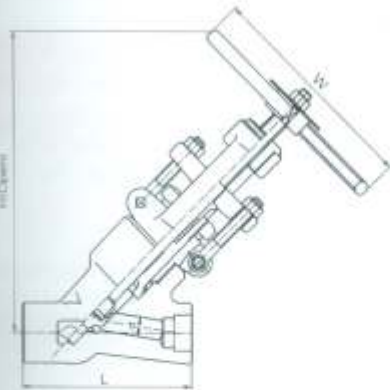
# Y type globe valves



## C2500

Welded bonnet, full port outside screw and yoke(OS &Y)  
Socket welded ends, design conform to ASME 16.34

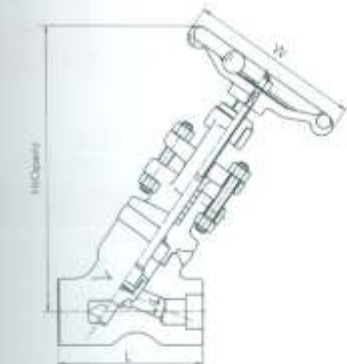
Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to Face	L	186	186	186	186	232	232	310
Handwheel diameter	W	200	200	200	200	280	280	300
Height	H	329	329	329	329	350	350	383
Flow port dimension	d	9	11	14	19	25	28	35
Weight		12.3	12.3	11.6	10.8	28.0	26.4	43.8



## C2500

Pressure seal bonnet, full port outside screw and yoke(OS &Y)  
Socket welded ends, design conform to ASME 16.34

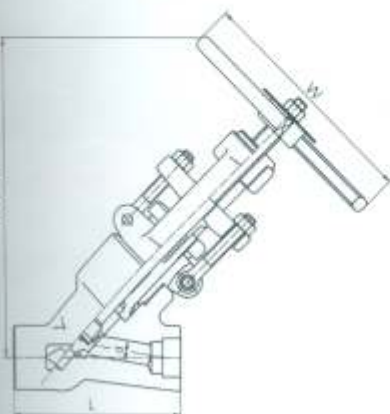
Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to Face	L	186	186	186	186	232	232	310
Handwheel diameter	W	200	200	200	200	280	280	300
Height	H	333	333	333	333	406	406	524
Flow port dimension	d	9	11	14	19	25	28	35
Weight		12.3	12.3	11.6	10.8	28.0	26.4	43.8



## C4500

Welded seal bonnet, full port outside screw and yoke(OS &Y)  
Socket welded ends, design conform to ASME 16.34

Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to Face	L	155	155	155	155	225	225	
Handwheel diameter	W	180	180	180	180	400	400	
Height	H	350	350	380	380	453	453	
Flow port dimension	d	9	11	11	15	26	26	
Weight		9.6	9.6	9.4	10.5	34	36	



## C4500

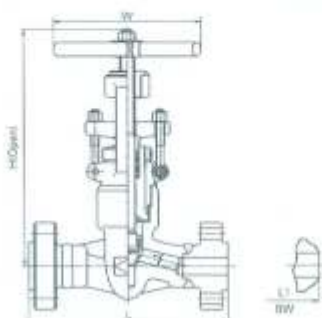
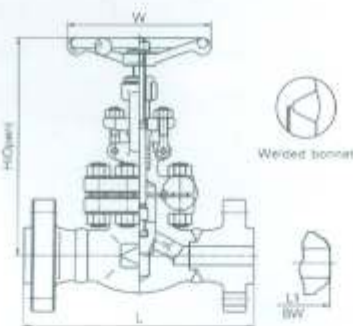
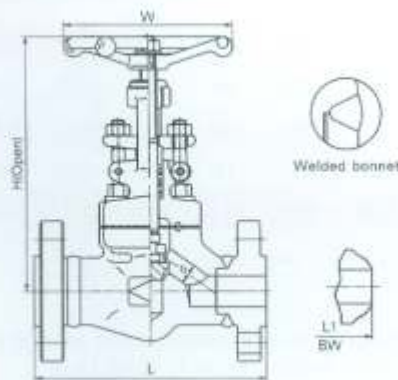
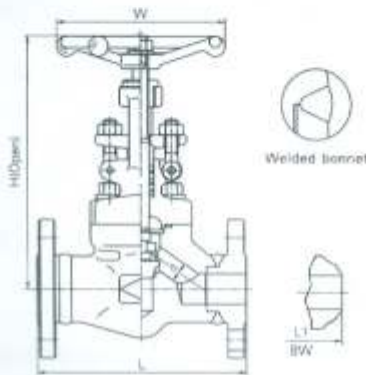
Pressure seal bonnet, full port outside screw and yoke(OS &Y)  
Socket welded ends, design conform to ASME 16.34

Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to Face	L	200	200	200	200	250	250	330
Handwheel diameter	W	280	280	280	280	300	300	320
Height	H	400	400	400	400	460	460	540
Flow port dimension	d	9	11	11	15	20	26	28
Weight		30	30	30	30	30	36	58



## Flange and butt-welded globe valves

### CL150-300-600 Welded bonnet, reducing port outside screw and (OS & Y) Flange or butt-welding design to BS555



Specification (NPS)		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	
Face to face	CL 150	-	-	108	117	127	140	165	
	CL 300	-	-	152	178	203	216	229	
	CL 600	-	-	165	190	216	229	241	
Handwheel diameter	W	-	-	100	100	125	160	160	
Height	H	-	-	180	184	217	224	260	
Height (angle dimensions)	d	-	-	9	13	17.5	23	30	
Weight (Kg)	CL 150	RF	-	-	3.45	4.00	6.19	9.6	10.5
		BW	-	-	2.3	3.6	7.8	8.2	12.0
	CL 300	RF	-	-	3.8	5.1	7.2	12	13.5
		BW	-	-	2.8	4.0	8.5	9.2	12.6
	CL 600	RF	-	-	5.6	7.8	12.5	17	23.5
		BW	-	-	3.4	4.7	9.2	10.5	13.3

If you want to order one piece body, please contact with sale department

### CL900-CL1500 Welded bonnet, full port outside screw and yoke (OS & Y) Flange-welded or butt-welded ends, design to BS

Specification (NPS)		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RF), L1(BW)	-	-	216	229	254	279	305	368
	L(RTJ)	-	-	216	229	254	279	305	371
Handwheel diameter	W	-	-	125	125	160	160	180	200
Height	H	-	-	207	207	230	160	300	355
Flow port dimension	d	-	-	12	15	20	28	32	40
Weight(Kg)		-	-	11	13.2	17.4	19	24.5	31

If you want to order one piece body, please contact with sale department

### CL2500 Welded bonnet, full port outside screw and yoke (OS & Y) Welding flange or butt-welded design conform to ASME B16.3

Specification (NPS)		F.P.	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RF), L1(BW)	-	-	264	273	308	-	384	451	
	L(RTJ)	-	-	264	273	308	-	387	454	
Handwheel diameter	W	-	-	125	160	200	-	250	240	
Height	H	-	-	207	240	258	-	355	300	
Height (angle dimension)	d	-	-	11	14	19	-	28	35	
Weight(Kg)		-	-	19.5	21.5	42	-	64	95	

If you want to order one piece body, please contact with sale department

### CL2500 Pressure seal bonnet, full port outside screw and yoke (OS & Y) Welding flange or butt-welded design conform to ASME B 16

Specification (NPS)		F.P.	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RF), L1(BW)	-	-	264	273	308	349	384	451	
	L(RTJ)	-	-	264	273	308	349	387	454	
Handwheel diameter	W	-	-	200	200	280	280	280	300	
Height	H	-	-	320	320	320	440	440	490	
Height (angle dimension)	d	-	-	11	14	19	25	28	35	
Weight(Kg)		-	-	21.5	24.7	30.4	48.1	58.1	130	

## Forged steel check valves

PANCHVATI Valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304L/graphite. Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available, The third design is the pressure seal bonnet, with a threaded and pressure seal bonnet joint.

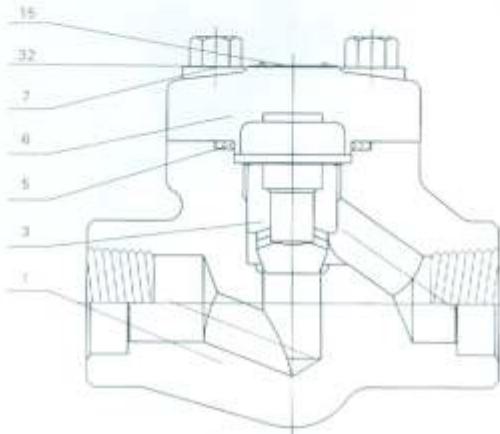
### Construction is as follows

- Full port or conventional port;
- Outside screw and yoke (OS & Y);
- Two piece self-aligning packing gland;
- Bolted bonnet & spiral wound gasket, threaded and seal
- welded bonnet or threaded and pressure seal bonnet;
- Integral backseat;
- Socket weld ends to ASME B16.11 ;
- Screwed ends (NPT) to ANSI/ASME B1.20.1;
- Disc can change for throttle type, needle type, ball type and check type





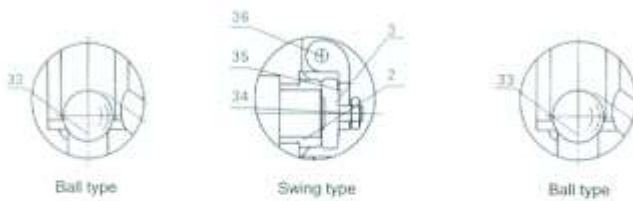
## Female threaded and socket welded check valves



Please mark in you offer if you need load spring

### Application standards

- Design and manufacture conform to BS5352 MSS SP-118
- Connection ends conform to:
  - Socket welded end conform to ANSI B16.11;JB/T1751
  - Screw ends conform to ANSI B1.20.1;JB/T7306
  - Butt-welded ends conform to ANSI B 16.25;JB/T12224
  - Flanged ends conform to ANSI B16.5;JB79
- Test and inspection conform to: API 598; GB/T13927; JB/T9092
- Structure features: Bolted bonnet, Welded bonnet
- Materials conform to ANSI/ASTM.
- Main material: A105; LF2; F5; F11; 304(L); 316(L); F347; F321; F51; Monel; 20 Alloy.



### Carbon steel temperature-pressure rate

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

### Main part materials list

No	Part Name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105 A105	A105+HF A105	LF2 LF2	F11+HF F11	F304(L) F304(L)	F316(L) F316(L)	F51 F51
2	Seat ring	410	410 HF	304	410 HF	304 (L)	316 (L)	F51
3	disc	F6a	F6a	F304	F6aHF	F304(L)	F3316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
32	Revit	AL	AL	AL	AL	AL	AL	AL
33	Steel ball	430	430	304	STL	316(L)	316(L)	STL
		304	304	304	304	304(L)	316(L)	F51
34	Disc nut	2H	2H	8	8	8(M)	8(M)	8M
35	Hinge	410	410	304	410	316(L)	316(L)	F51
36	Pin	410	410	304	410	304(L)	316(L)	F51

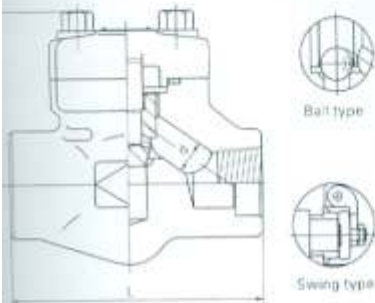




## Female threaded and socket welded check valves

### CL800

Bolted bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to BS5352

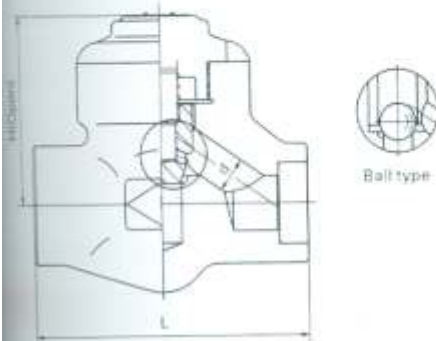


Please mark in you offer if you need load spring.

Specification (NPS)	R.P F.P	- 1/4	1/2 3/8	3/4 1/2	1 3/4	1 1/4 1	1 1/2 1 1/4	2 1 1/2	2 2	
Face to face	L	Lift	79	79	92	111	120	152	172	200
		Swing	79	79	92	111	120	120	140	178
Height	H	Lift	61	61	61	78	84	84	118	132
		Swing	61	61	61	78	84	84	120	133
Height (angle dimension)	d	Lift	7	9	13	17.5	23	30	35	46
		Swing	8	10.5	13.5	18	24	29	36.5	45
Weight (Kg)		Lift	1.2	1.5	1.7	3.3	4.2	4.2	10.5	12.5
		Swing	1.4	1.5	1.7	3.3	4.2	4.2	8.5	10.9

### CL800

Welded bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to BS5352

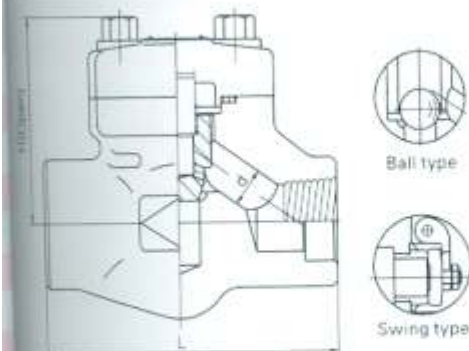


Please mark in you offer if you need load spring.

Specification (NPS)	R.P F.P	- 1/4	1/2 3/8	3/4 1/2	1 3/4	1 1/4 1	1 1/2 1 1/4	2 1 1/2	2 2
Face to face	L	79	79	92	111	120	152	172	200
Height	H	61	61	61	78	84	103	118	132
Height (angle dimension)	d	7	9	13	17.5	23	30	35	46
Weight (Kg)		1.2	1.3	1.5	3.0	3.9	6.0	10	12

### CL900-CL 1500

Bolted bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to BS5352



Please mark in you offer if you need load spring.

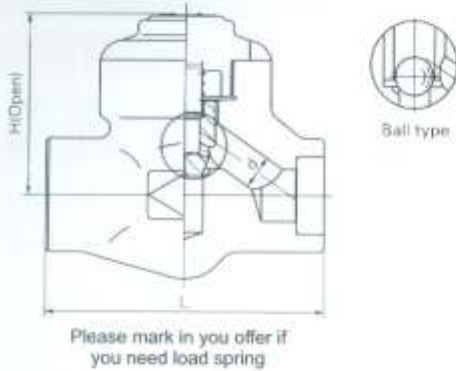
Specification (NPS)	R.P F.P	- 1/4	1/2 3/8	3/4 1/2	1 3/4	1 1/4 1	1 1/2 1 1/4	2 1 1/2	2 2
Face to face	L	Lift	92	111	111	120	152	172	200
		Swing	92	111	111	120	120	140	178
Height	H	Lift	61	78	78	84	103	118	132
		Swing	61	78	78	84	101	120	133
Height (angle dimension)	d	Lift	7	12	15	20	28	32	40
		Swing	8	10.5	13.5	18	24	29	45
Weight (Kg)		Lift	1.5	3.4	3.3	4.2	6.3	10.5	12.5
		Swing	1.5	3.4	3.3	4.2	5.0	8.5	10.9



## Female threaded and socket welded check valves

### CL900-CL1500

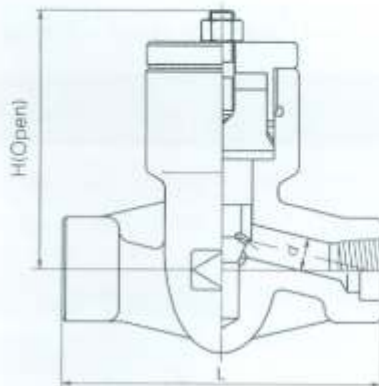
Welded bonnet, full port and reducing port. Threaded, butt-welded or socket welded ends; design to BS5352



Specification (NPS)	R.P F.P	- 1/4	1/2 3/8	3/4 1/2	1 3/4	1 1/4 1	1 1/2 1 1/4	2 11/2
Face to face	L	92	111	111	120	152	172	200
Height	H	61	78	78	84	103	118	132
Height (angle dimension)	d	7	12	15	20	28	32	40
Weight (Kg)		1.3	3.1	3.1	3.9	5.8	10.0	11.5

### CL900-CL1500

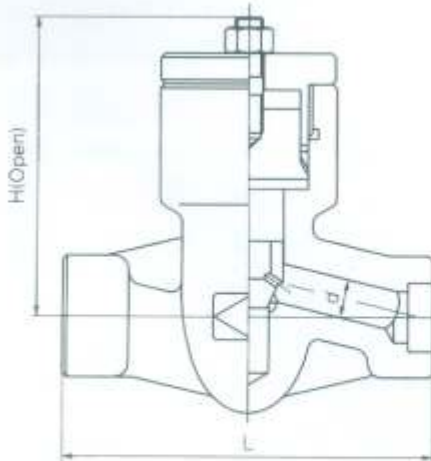
Pressure seal bonnet, full port and reducing port. Threaded, butt-welded or socket welded ends; design to BS5352



Specification (NPS)	R.P F.P	- 1/4	1/2 3/8	3/4 1/2	1 3/4	1 1/4 1	1 1/2 1 1/4	2 11/2	2 1/2 2
Face to face	L	140	140	140	178	216	216		
Height	H	117	117	117	152	195	195		
Height (angle dimension)	d	12	15	20	28	32	40		
Weight (Kg)		7.5	7.0	6.8	18.5	20.3	22		

### CL2500

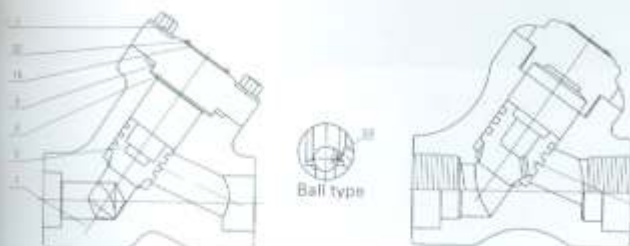
Pressure seal bonnet, full port. Threaded, butt-welded or socket welded or socket welded ends; design to ASME B16.34



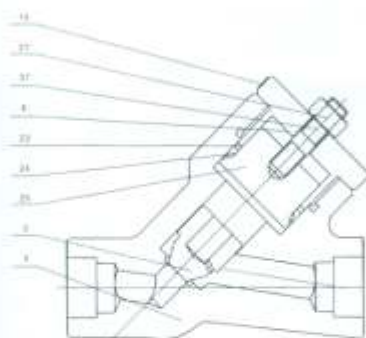
Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
Face to face	L	186	186	186	232	232		
Height	H	117	117	117	152	152		
Height (angle dimension)	d	11	14	19	25	28		
Weight (Kg)		11.8	11	10.5	23	26.4		



## Y type check valves, Y type pressure sealed check valves



Please mark in your offer if you need load spring



### Application standards

- Design and manufacture conform to BS5352 MSS SP-118;
- Connection ends conform to:
  - Socket welded end 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
  - Flanged ends conform to ANSI B16.5; JB 79
- Test and inspection conform to: API 598; GB/T13927; JB/T9092
- Structure features:  
Bolted bonnet, Welded bonnet, A threaded and pressure seal bonnet; Y type and T type.
- Materials conform to ANSI/ASTM.
- Main materials:  
A105; LF2; F5; F11; F22; 304 (L); 316 (L); F347; F321; F51; Monel; 20 Alloy.

### Carbon steel temperature-pressure rate

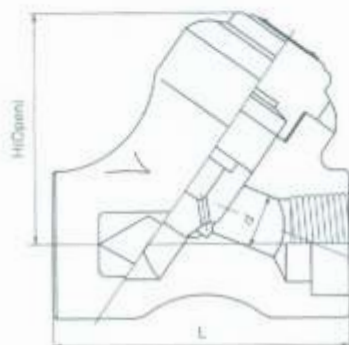
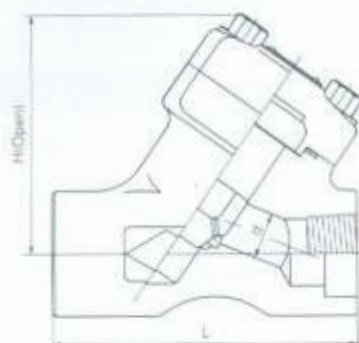
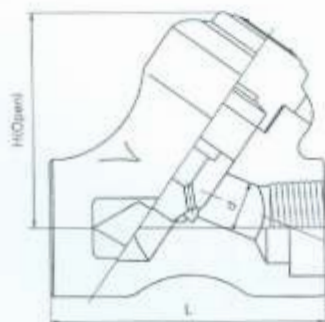
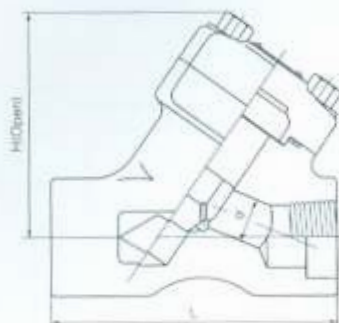
CL1500-3705 PS.I @ 100° F  
 CL2500-6170 PS.I @ 100° F  
 CL4500-1111PS.I @ 100° F

### Main part materials list

No	Part Name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
3	Disc	410	410 F	304	410HF	304(L)	316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316+(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
32	Revit	AL	AL	AL	AL	AL	AL	AL
33	Steel ball	430	430	304	STL	316(L)	316(L)	STL
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
23	Seal ring gasket	420	420	304	304	304(L)	316(L)	410
24	P.S. ring	304	304	304	304	316(L)	316L	316L
25	P.S. seat	F410	F410	F304	F410	F304	F316	F51
27	Lift nut	2H	2H	8	8	8(M)	8(M)	8M
37	Lift stud	B7	B7	L7	B16	B8(M)	B8(M)	B8M



## Y type check valves



### CL800

Bolted bonnet, full port and reducing port Three  
butt-welded or socket Welded ends; design to BSS

Specification (NPS)	R.P F.P	- 1/4	1/2 3/8	3/4 1/2	1 3/4	1 1/4 1	1 1/2 1 1/4	2 1 1/2	2 1/2 2
Face to face	L		98	98	98	111	140	140	155
Height	H		70	70	70	100	100	120	120
Height (angle dimension)	d		7	10	13	17.5	23	30	35
Weight (Kg)			2.2	2.2	2.1	4.2	9	8.9	10

### CL800

Welded bonnet, full port and reducing port Three  
butt-welded or socket Welded ends; design to BSS

Specification (NPS)	R.P F.P	- 1/4	1/2 3/8	3/4 1/2	1 3/4	1 1/4 1	1 1/2 1 1/4	2 1 1/2	2 1/2 2
Face to face	L		79	79	92	100	140	140	155
Height	H		65	65	65	95	105	110	110
Height (angle dimension)	d		7	10	13	17.5	23	30	35
Weight (Kg)			1.8	1.8	2.0	3.5	8.0	8.0	12

### CL900-CL1500

Bolted bonnet, full port Threaded,butt-  
or socket welded ends; design to BSS

Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	98	111	111	140	140	155	170
Height	H	70	70	100	110	110	120	150
Height (angle dimension)	d	9	12	15	20	28	32	40
Weight (Kg)		2.1	4.2	9	8.9	10	18.6	20

### CL900-CL1500

Welded bonnet, full port Threaded,butt-  
or socket welded ends; design to BSS

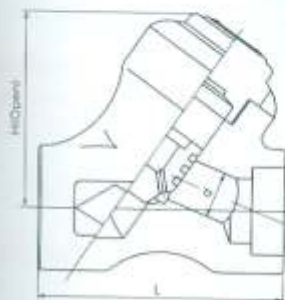
Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	92	100	100	140	140	155	170
Height	H	65	65	65	105	110	110	140
Height (angle dimension)	d	9	12	15	20	32	28	40
Weight (Kg)		2.0	3.5	3.5	8.0	12	12	18



## Y type check valves

### CL2500

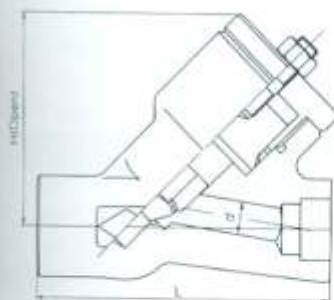
Welded bonnet, full port  
Threaded, butt-welded or socket welded ends; design to BS5352



Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	186	186	186	186	232	232	310
Height	H	115	115	120	150	150	150	160
Height (angle dimension)	d	9	11	14	19	25	28	35
Weight (Kg)		11.2	11.5	10.6	10.8	25	22	39

### CL2500

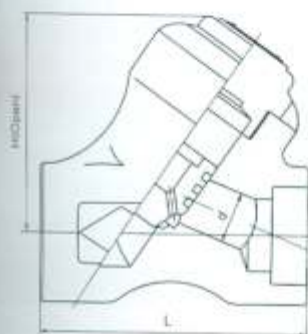
Pressure seal, bolted bonnet, full port  
Threaded, butt-welded or socket welded ends; design to ASME B16.34



Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	186	186	186	186	232	232	310
Height	H	233	233	233	233	256	256	330
Height (angle dimension)	d	9	11	14	19	25	28	35
Weight (Kg)		11.2	11.5	10.6	10.8	25	22	39

### CL4500

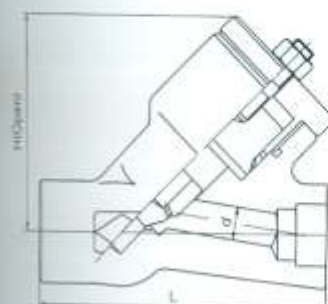
Welded bonnet, full port  
Threaded, butt-welded or socket welded ends; design to ASME B16.34



Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	155	155	155	155		225	225
Height	H	120	120	120	145		160	160
Height (angle dimension)	d	9	11	11	15		26	28
Weight (Kg)		8.7	8.7	8.7	8		16.5	16

### CL4500

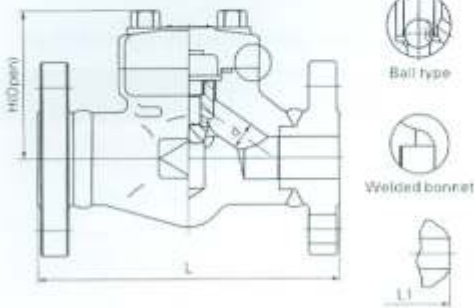
Pressure seal, bolted bonnet, full port  
Threaded, butt-welded or socket welded ends; design to ASME B16.34



Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	200	200	200	200	250	250	330
Height	H	140	140	140	140	160	160	180
Height (angle dimension)	d	9	11	11	15	20	26	28
Weight (Kg)		20	20	20	20	28	28	45



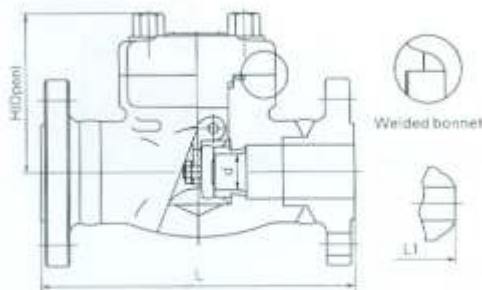
## Flange and butt-welded check valves



### CL150-300-600 Bolted bonnet, full port Flange-Welded or butt-welded ends; design to BS

Specification (NPS)		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
Face to face	CL 150	-	-	108	118	127	140	165
	CL 300	L(RF)		-	-	153	178	203
	CL 600	L1(BW)		-	-	165	191	216
Height	CL 150	-	-	77	81	93	95	103
	CL 150/CL300,CL600	H		-	-	61	78	84
Height (angle dimensions)	d			-	-	10.5	13.5	18
				-	-			
Weight (Kg)	CL 150	RF	-	-	3.6	4.6	8.5	9.2
		BW	-	-	3.0	3.6	7.6	8.5
	CL 300	RF	-	-	3.7	4.8	8.8	9.6
		BW	-	-	3.2	4.3	8.0	8.6
	CL 600	RF	-	-	4.0	5.8	9.5	10.4
		BW	-	-	3.4	5.1	8.8	9.2

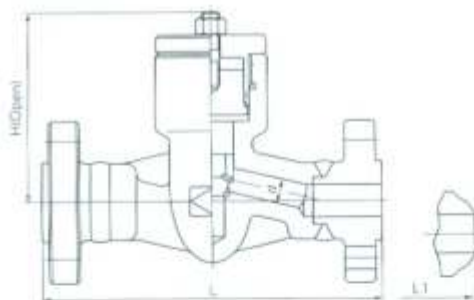
If you want to order one piece body, please contact with sale department



### CL150-300-600 Bolted bonnet, full port Flange-Welded or butt-welded ends; design to BS

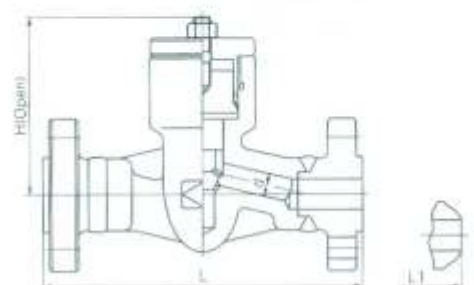
Specification (NPS)		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
Face to face	CL 150	-	-	108	118	127	140	165
	CL 300	L(RF)		-	-	153	178	203
	CL 600	L1(BW)		-	-	165	191	216
Height	CL 150	-	-	77	81	93	95	103
	CL 150/CL300,CL600	H		-	-	61	78	84
Height (angle dimensions)	d			-	-	10.5	13.5	18
				-	-			
Weight (Kg)	CL 150	RF	-	-	3.6	4.6	8.5	9.2
		EW	-	-	3.0	3.6	7.6	8.5
	CL 300	RF	-	-	3.7	4.8	8.8	9.6
		BW	-	-	3.2	4.3	8.0	8.6
	CL 600	RF	-	-	4.0	5.8	9.5	10.4
		BW	-	-	3.4	5.1	8.8	9.2

If you want to order one piece body, please contact with sale department



### CL900-CL1500 Pressure Seal, Bolted Bonnet, Full Port And Redu Flange-welded or butt-welded ends; design to BS

Specification (NSP)		F.P	3/8	1/2	3/4	1	1 1/4	1 1/2
Face to face	L(RF),L1(BW)	L(RT,I)	216	229	254	280	305	305
		L(RT,I)	216	229	254	280	305	305
Height	H		117	117	117	152	152	
Height(angle dinmension)	d		12	15	20	28	32	
Weight(Kg)			10.5	11.9	13.9	19.9	26.9	



### CL900-CL1500 Pressure Seal, Bolted Bonnet, Full Port And Redu Flange-welded or butt-welded ends; design to BS

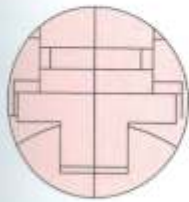
Specification (NSP)		F.P	3/8	1/2	3/4	1	1 1/4	1 1/2
Face to face	L(RF),L1(BW)	L(RT,I)	264	273	308	349	384	384
		L(RT,I)	264	273	308	352	387	387
Height	H		117	117	117	152	152	
Height(angle dinmension)	d		12	15	20	32	28	
Weight(Kg)			12.6	14.9	16.5	24.8	30	

## Forged steel ball valves

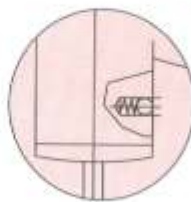
PANCHVATI Valves steel ball valves have two structures, one is of 2PCS structure, threaded bonnet, RPTFE or PEEK seal. The other is of 3PCS structure, bolted tailpieces. Different materials for seats, gaskets and packing may be chosen acc. to different using conditions.

### Construction is as follows

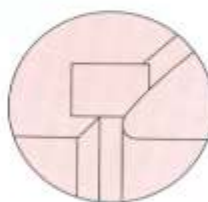
- Full port or conventional port;
- 90° locating and lock structure;
- Special Y type handle;
- Fire proof and anti static;
- Mounted flange as per ISO 5211;
- Blow out Proof stem;
- Double sealing for the stem;
- Bolted bonnet;
- Socket welded ends to ASME B16.11;
- Screwed ends (NPT) to ANSI/ASME B1.20.1.



Blow out proof stem



Anti static



Fire safe

PANCHVATI Valves compact ball valves are trusted by many customers because of its reasonable structures, small space-occupation and good sealing performance.

### Design structure

Seat is made of PTFE reinforced with 25% glass fibre or PEEK. PTFE with 25% glass fibre can gain better performances normally used for class 800 ball valves. PEEK can gain better performances under high pressure and high temperature normally used for class 1500 ball valves. Anti static/fire safe/blow out proof stem.

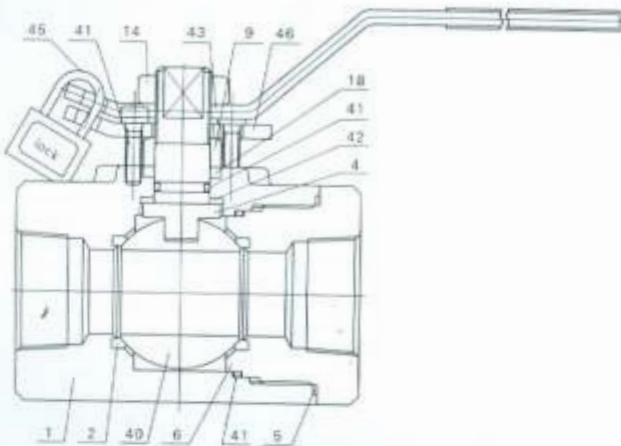


### Flow coefficient Cv

NPS	Cv value	
	Full port	Reduced port
1/4	8	
3/8	8	
1/2	12	8
3/4	33	12
1	48	33
1 1/4	83	48
1 1/2	120	83
2	250	120



## 2PCS Forged steel ball valves



### Application standards

1. Design and manufacture conform to BS5351 MSS SP-118
2. Connection ends conform to:
  - 1) Socket welded ends conform to ANSI B16.11; JB/T1751
  - 2) Screw ends conform to ANSI B1.20.1; JB/T7306
  - 3) Butt-welded conform to ANSI B16.25; JB/T12224
  - 4) Flanged ends conform to ANSI B16.5; JB79
3. Test and inspection conform to: API 598; GB/T13927; JB/T9092
4. Structure features:  
Bolted bonnet, two-piece;
5. Materials conform to ANIS/ASTM.
6. Main material:  
A105; LF2; 304(L); 316 (L); F347; F321; F51; Marten 20 Alloy.

### Carbon steel temperature-pressure rate

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

### Main part materials list

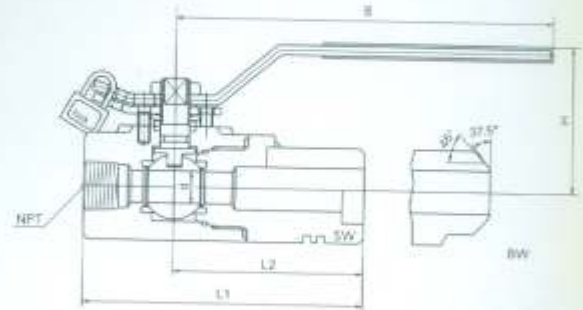
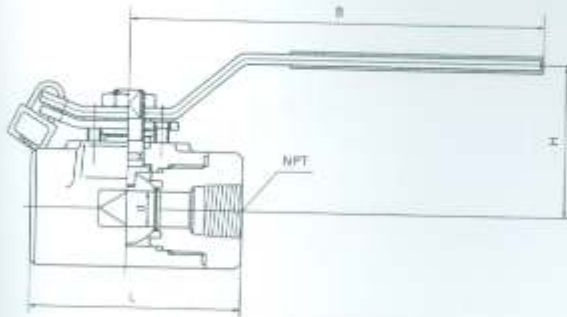
No	Part Name	A105/F6a	LF2/304	F304(L) / 304 (L)	F316 (L) / 316 (L)	F51/F51
1	Body	A105	LF2	F304(L)	F316(L)	F51
2	Seat	RPTFE & PEEK	RPTFE & PEEK	RPTFE & PEEK	RPTFE & PEEK	RPTFE & PEEK
4	Stem	410	304	304(L)	316(L)	F51
5	Gasket	PTFE	PTFE	PTFE	PTFE	PTFE
6	Bonnet	A105	LF2	F304	F316	F51
9	Gland	410	304	304 (L)	316 (L)	F51
11	Gland flange	A105	LF2	F304	F316	F51
14	Flat nut	8	8	8	8M	8M
18	Packing	PTFE	PTFE	PTFE	PTFE	PTFE
40	Ball	F6	F304	F304(L)	F316(L)	F51
41	O-ring	VITON	VITON	VITON	VITON	VITON
42	Back seat gasket	RPTFE & PEEK	RPTFE & PEEK	RPTFE & PEEK	RPTFE & PEEK	RPTFE & PEEK
43	Wrench	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025
44	Screw	B8	B8	B8	B8	B8
45	Lock	Finished product	Finished product	Finished product	Finished product	Finished product
46	Locator	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025





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## 2PCS Forged steel ball valves



## CL800

One end is welded pipe (butt-welding or socket welding) and the other is thread, design conform to BS 5351

Specification (NPS)	R.P F.P	1/4	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to Face	L1	70	70	80	95	115	125	135	155
Coupling pipe end to center	L2	121	121	121	130	136	140	148	160
Center to handle end	B	160	160	160	160	170	230	230	280
Height	H	60	60	60	65	85	105	105	125
Height (angle dimension)	d	6	9	12.5	17	24	37	37	49
Weight (Kg)		1.2	0.9	1.3	2.2	3.5	6.5	6.5	11

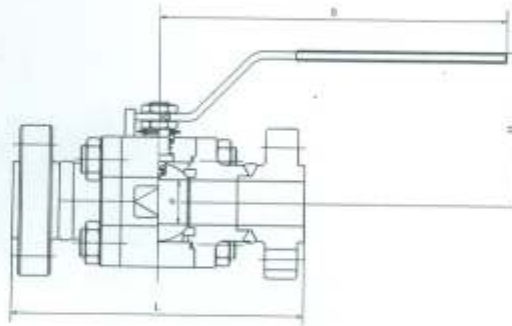
## CL1500-CL2500

One end is welded pipe (butt-welding or socket welding) and the other is thread, design conform to API6D

Specification (NPS)	R.P		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L1	CL1500	80	80	95	115	125	135	155	155
		CL2500			125	135	155		155	
Coupling pipe end to center	L2	CL1500	121	121	130	136	140	148	160	175
		CL2500			136	140	148		175	
Center to handle end	B	CL1500	160	160	160	170	230	230	280	280
		CL2500			230	230	280		280	130
Height	H	CL1500	60	60	65	85	105	105	125	
Weight (Kg)		CL2500			90	110	125			
Height (angle dimension)	d	CL1500	6	9	13	19	25	32	38	49
		CL2500	6	9	13	19	25		38	49
Weight (Kg)		CL1500	1.2	1.5	2.5	3.7	5.8		11.5	13.7
		CL2500	1.5	1.9	2.7	4.1	6.3		12	15



## 3PCS Forged steel ball valves



### CL800-CL1500

Connection ends may be pipe-welded (butt-welding or socket welding) and/or threaded, design to BS5339

Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to Face	L1	92	92	92	111	127	140	152	162
Center to handle end	B	108	108	108	146	178	178	200	200
Height	H	51	51	51	108	81	85	105	105
Height (angle dimension) d	CL800	6	9	13	18	23	28	35	49
	CL1500	6	9	13	19	25	32	38	49
Weight (Kg)		2.5	2.4	2.3	3.4	5.4	6.4	11	13
		2.5	2.4	2.5	3.7	5.8	6.8	11.5	13.7

### CL800-CL1500

Connection ends may be pipe-welded (butt-welding or socket welding) and/or threaded, design to BS5339

Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to Face	L			110	125	135		160	
Center to handle end	B			170	230	230		310	
Height	H			95	110	125			
Height (angle dimension) d	d			13	19	25		38	
Weight (Kg)				2.7	4.1	6.3		12	

### CL1500-CL2500

Flanged or butt-welded ends; design to API 6D Face to face conforms to manufacture standard

Specification (NPS)	F.P		1/2	3/4	1	1 1/4	1 1/2	2
Face to Face	L	CL1500	216	229	256	279	305	368
		CL2500	264	273	308	349	384	451
Center to handle end	B	CL1500	230	230	350	280	400	400
		CL2500	280	280	95	350	400	400
Height	H	CL1500	75	85	85	105	110	130
		CL2500	75	85	95	105	110	130
Height (angle dimension) d	d	CL1500	13	19	25	32	38	49
		CL2500	13	19	25	32	38	42
Weight (Kg)		CL1500	2.5	5.8	5.8	6.8	11.5	13.7
		CL2500	2.7	6.3	6.3	6.8	12	15



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