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TAIKE VALVE CO., LTD

FLUID CONTROL SOLUTIONS



TKYCO

**TAIKE VALVE CO., LTD**

**FLUID CONTROL  
SOLUTIONS**

全方位流体控制解决方案

中外合资 Sino Foreign Joint Venture



## Company Profile 企业简介

泰科阀门有限公司是一家集研发、设计、开发制造为一体的企业，拥有多处生产基地，引进先进的制造工艺和管理体系，通过国家ISO9001质量体系认证和ISO14001环境管理体系认证。

泰科阀门有限公司长期以来从事暖通、给排水、消防系统产品，市政工程、火灾产品等行业，具有很高的知名度和影响力。

泰科阀门有限公司一贯坚持以产品质量为企业生命的宗旨，给客户适合的产品和快捷的售前售后服务。

Tkyco Valve Co., Ltd. is an enterprise integrating R&D, design, development and manufacturing. It has many production bases, introduces advanced manufacturing technology and management system, and has passed the national ISO9001 quality system certification and ISO14001 environmental management system certification.

Tkyco Valve Co., Ltd. has long been engaged in HVAC, water supply and drainage, fire protection system products, municipal engineering, fire products and other industries, with high popularity and influence.

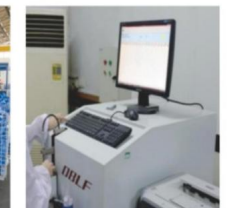
Tkyco Valve Co., Ltd. has always adhered to the purpose of taking product quality as the life of the enterprise, providing customers with suitable products and fast pre-sales and



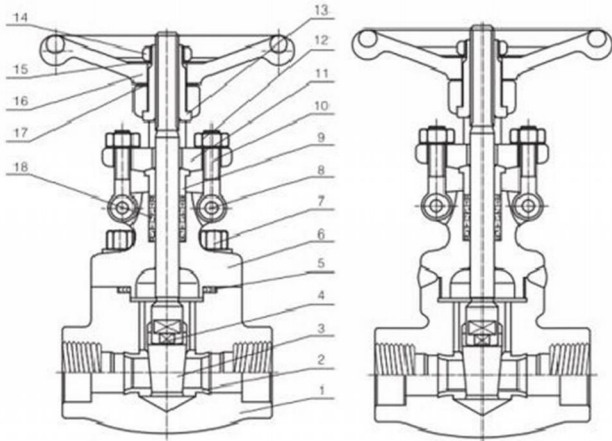
## Production Workshop 生产车间

我公司拥有高精度的数控机床和加工中心，先进的设备及检测仪器，精良的工艺以及严格完善的质量管理体系，并聚集具有专业技术精英和领先水平的科技队伍，充分利用新技术、新工艺、新材料保证产品的稳定性和可靠性，产品质量取源于制造手段的先进，精品意识源于不断创新。

Our company has high-precision CNC machine tools and processing centers, advanced equipment and testing instruments, excellent technology and strict and perfect quality management system, and gathers professional technical elites and leading scientific and technological teams to make full use of new technologies, new processes and new materials to ensure the stability and reliability of products. The product quality comes from the advanced manufacturing means, High quality consciousness comes from continuous innovation.



# Female Threaded And Socket Welded Gate Valves



### Application specification:

- 1.design and manufacture API602, BS5352,ANSI B16.34;
- 2.Connection end size:  
(1)Socket size according to ANSIB16.11;JB/T1751;  
(2)Screw end size according to ANSI B 1.20.1;JB/T7306;  
(3)Welding end size according to ANSI B16.25;JB/T12224;  
(4)Flange end size according to ANSIB16.5;JB79;
- 3.valve inspection and test API598; GB/T13927;JB/T9092
- 4.Structural characteristics Bolted caps (B.B)and stem brackets (OS&Y)Orwelded bonnet (W.B)and stem support (OS&Y);
- 5.Materials shall comply with ANIS/ASTM regulations.;
- 6.Main materialA105;LF2;F5;F11;F22; 304(L);316(L);F347;F321;F51;Monel; 20 alloys etc..

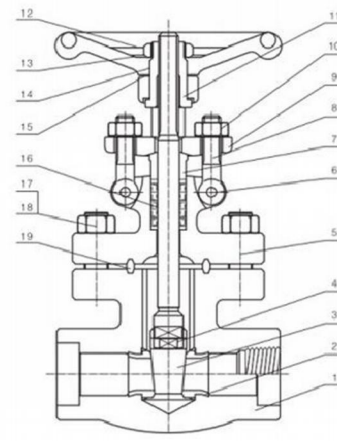
### Carbon steel temperature and pressure rating:

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

### Typical parts material table:

NO	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Valve body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Race	410	410HF	304	410HF	304(L)	316(L)	F51
3	ram	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Valve 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	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	Packing bushing	410	410	304	410	304	316	F51
10	Knuckle bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Packing plate	A105	A105	LF2	F11	F304	F304	F304
12	Hexagon nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	410	410	410	410	410	410	410
14	Lock nut	35	35	35	35	35	35	35
15	Dogtag	AL	AL	AL	AL	AL	AL	AL
16	Hand wheel	A197	A197	A197	A197	A197	A197	A197
17	Lubricating gasket	410	410	410	410	410	410	410
18	filler	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite

# Female Threaded And Socket Welded Gate Valves



### Application specification:

- 1.design and manufacture API602,BS5352,ANSI B16.34;
- 2.Connection end size:  
(1)Socket size according to ANSIB16.11;JB/T1751;  
(2)Screw end size according to ANSI B 1.20.1;JB/T7306;  
(3)Welding end size according to ANSI B16.25;JB/T12224;  
(4)Flange end size according to ANSIB16.5;JB79;
- 3.valve inspection and test API598; GB/T13927;JB/T9092
- 4.Structural characteristics Bolted caps (B.B)and stem brackets (OS&Y)Orwelded bonnet (W.B)and stem support (OS&Y);
- 5.Materials shall comply with ANIS/ASTM regulations.;
- 6.Main materialA105;LF2;F5;F11;F22;304(L);316(L);F347;F321; F51;Monel;20 alloys etc..

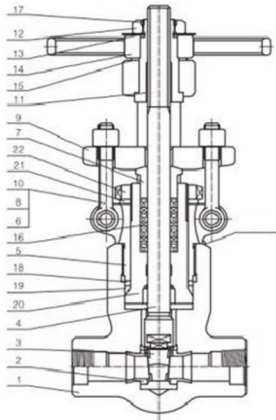
### Carbon steel temperature and pressure rating:

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

### Typical parts material table:

NO	Part name	A105/F6	A105/F6aHFS	1E2/304	F11/F6aHF	E30AY304(L)	F316(L)/316(L)	F51/F51
1	Valve body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Race	410	410HF	304	410HF	304(L)	316(L)	F51
3	Ram	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Valve stem	410	410	304	410	304(L)	316(L)	F51
5	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
6	Pin	410	410	410	410	304	304	304
7	Packing bushing	410	410	304	410	304	316	F51
8	Knuckle bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
9	Packing plate	A105	A105	LF2	F11	F304	F304	F304
10	Hexagon nut	2H	2H	2H	2H	8(M)	8(M)	8M
11	Stem nut	410	410	410	410	410	410	410
12	Lock nut	35	35	35	35	35	35	35
13	Dogtag	AL	AL	AL	AL	AL	AL	AL
14	Hand wheel	A197	A197	A197	A197	A197	A197	A197
15	Lubricating gasket	410	410	410	410	410	410	410
16	Filler	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
17	Double stud	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
18	Nut	2H	2H	8	8	8(M)	8(M)	8(M)
19	Metal ring	304	304	304	304	304(L)	316(L)	F51

# Pressure Sealing Globe Valves



### Application specification:

- 1.design and manufacture API602,BS5352,ANSI B16.34;
- 2.Connection end size:  
 (1)Socket size according to ANSIB 16.11;JB/T1751;  
 (2)Screw end size according to ANSI B1.20.1;JB/T7306;  
 (3)Welding end size according to ANSI B16.25;JB/T 12224;  
 (4)Flange end size according to ANSI B16.5;JB79;
- 3, valve inspection and test API598;GB/T13927;JB/T9092.
- 4.Structural characteristics:  
 Thread and pressure self-sealing.
- 5.Materials shall comply with ANIS/ASTM regulations.
- 6.Main material:  
 A105;LF2;F5;F11;F22;304(L);316(L);F347;F321;F91;Monel;  
 20 alloys etc.

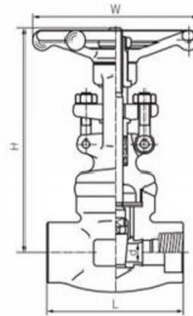
### Carbon steel temperature and pressure rating:

CL1500-3705P.S.1@100° F;CL2500-6170P.S.1@100° F

### Typical parts material table:

NO	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F91/410HF
1	Valve body	A105	A105	LF2	E11	F304(L)	F316(L)	F91
2	Valve seat	410	410HF	304	410HE	304(L)	316(L)	410HF
3	ram	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F6aHF
4	Valve stem	410	410	304	410	304(L)	316(L)	410
5	bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F91
6	pin	410	410	410	410	304	304	410
7	Packing bushing	410	410	304	410	304	316	410
8	Knuckle bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8
9	Packing gland	A105	A105	LF2	F11	F304	F304	F91
10	Hexagon nu	2H	2H	2H	2H	8(M)	8(M)	8
11	Stem nut	410	410	410	410	410	410	410
12	Lock nut	35	35	35	35	35	35	35
13	Dogtag	AL	AL	AL	AL	AL	AL	AL
14	Hand wheel	A197	A197	A197	A197	A197	A197	A190
15	Lubricating gasket	410	410	410	410	410	410	410
16	filler	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
17	Set screw	35	35	35	35	35	35	35
18	Sealing ring gasket	420	420	304	304	304(L)	316(L)	420
19	Self-sealing ring	304	304	304	304	304	316	316
20	Self-sealing seat	420	420	304	304	304(L)	316(L)	F91
21	Nut pad	410	410	410	410	410	410	410
22	Tension nut	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel

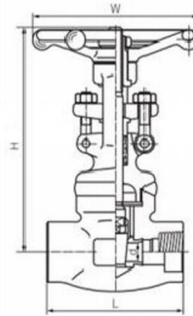
# Female Threaded And Socket Welded Gate Valves



CL800

NPS	R.P	1/2	3/4	1	1/4	1/2	2	2/2	3	
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1/2	2	
Structure length(mm)	L	79	79	92	111	120	120	140	178	180
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200	220
Center height (open) (mm)	H	161	161	163	196	223	251	290	333	370
Channel aperture(mm)	d	8	10.5	13.5	18	24	29	36.5	45	51
Weight(Kg)		2.22	2.3	2.39	4.24	5.7	7.05	10.9	16.8	24

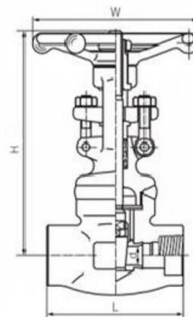
Welded bonnet, reduced and full diameter, open rod support (OS&Y)End connections are threaded or socket welded or butt welded, designed according to API602



CL800

NPS	R.P	1/2	3/4	1	1/4	1/2	2	2 1/2	3	
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1/2	2	
Structure length(mm)	L	79	79	92	111	120	120	140	178	180
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200	220
Center height (open) (mm)	H	161	161	163	196	223	251	290	333	370
Channel aperture(mm)	d	8	10.5	13.5	18	24	29	36.5	45	51
Weight(Kg)		1.9	1.9	2.1	3.2	5.2	6.9	10.4	15.8	22

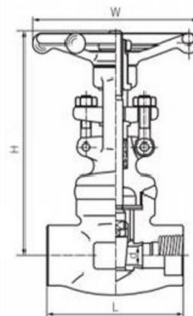
Welded bonnet, reduced and full diameter, open rod support (OS&Y)End connections are threaded or socket welded or butt welded, designed according to API602



CL900-CL1500

NPS	R.P	1/2	3/4	1	1/4	1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1/2	2
Structure length(mm)	L	92	111	111	120	120	140	178	180
Handwheel diameter(mm)	W	100	125	125	160	160	180	200	220
Center height (open) (mm)	H	191	191	192	219	243	296	316	370
Channel aperture(mm)	d	8	10.5	13.5	18	24	29	36.5	45
Weight(Kg)		2.4	4.3	4.4	6	7.2	11.4	16	23

Welded bonnet, reduced and full diameter, open rod support (OS&Y)End connections are threaded or socket welded or butt welded, designed according to API602

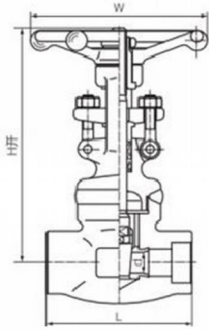


CL900-CL1500

NPS	R.P	1/2	3/4	1	1/4	1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1/2	2
Structure length(mm)	L	92	111	111	120	120	140	178	180
Handwheel diameter(mm)	W	100	125	125	160	160	160	200	220
Center height (open) (mm)	H	171	207	207	240	258	330	355	370
Channel aperture(mm)	d	8	10.5	13.5	18	24	29	36.5	45
Weight(Kg)		2.3	4	4	4.8	7.1	11	16	22.8

Welded bonnet, reduced and full diameter, open rod support (OS&Y)End connections are threaded or socket welded or butt welded, designed according to API602

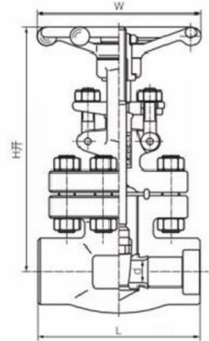
# Female Threaded And Socket Welded Gate Valves



CI1500

NPS		1/4	3/8	1/2	3/4	1	1 1/4	2
Structure length (mm)	L		111	120	120	120	140	
Handwheel diameter (mm)	W		125	160	160	180	220	
Center height (open) (mm)	H		215	218	220	238	281	
Channel aperture (mm)	d		14	14	14	19	25	
Weight (Kg)			7	8.5	8.7	11.7	17	

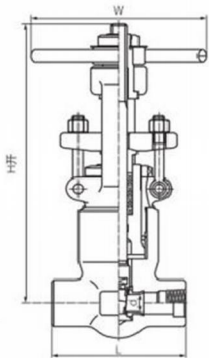
Welded bonnet, full diameter, open rod support (OS&Y)  
The end connection is a socket connection, designed according to ASME B16.34



CI1500-CL2500

NPS	F.P		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Structure length (mm)	L	CL1500	110	150	150		210	235	
		CL2500	150	150	210		235	235	
Handwheel diameter (mm)	W	CL1500	110	130	130		180	250	
		CL2500	130	130	250		300	300	
Center height (open) (mm)	H	CL1500	277	300	390		400	435	
		CL2500	293	300	390		435	435	
Channel aperture (mm)	d	CL1500	14	17	22		35	37	
		CL2500	14	14	14		25	30	
Weight (Kg)		CL1500	5.1	11	12.1		22	37	
		CL2500	11	11.3	22.4		38	38	

Bolted cap, full diameter, open rod bracket (OS&Y)  
The end connection is a socket connection, designed according to ASME B16.34

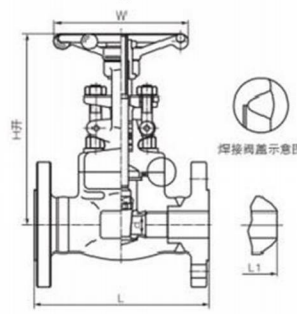


CI1500-CL2500

NPS	F.P		3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length (mm)	L	CL900-1500	140	140	140	140	178	178	216
		CL2500	186	186	186	186	232	232	279
Handwheel diameter (mm)	W	CL900-1500	200	200	200	200	280	280	300
		CL2500	200	200	200	200	280	280	300
Center height (open) (mm)	H	CL900-1500	318	318	318	322	467	468	540
		CL2500	325	325	325	327	467	468	540
Channel aperture (mm)	d	CL900-1500	14	14	14	19	25	30	36.5
		CL2500	14	14	14	19	25	30	36.5
Weight (Kg)		CL900-1500	11.5	11.5	10.8	10.5	19.6	21.0	55.4
		CL2500	10.8	11.6	12.3	12.3	26.0	28.4	60.0

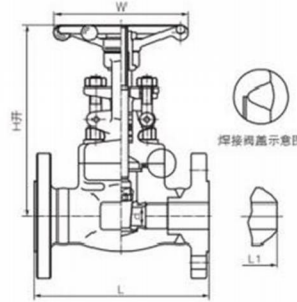
Pressure self-tightening seal bonnet, full diameter, open rod support (OS&Y)  
The end connection is a socket connection, designed according to ASME B16.34

# Forged Steel Flange Gate Valves



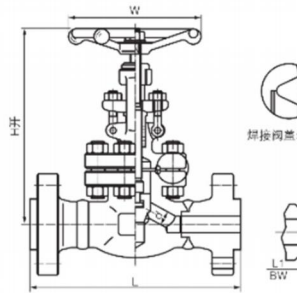
NPS			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Structure length (mm)	CL150	L (RF)			108	117	127	140	165	178	190
	CL300	L1 (BW)			140	152	165	178	190	216	241
	CL600				165	190	216	229	241	292	330
Handwheel diameter (mm)	W	CL150			100	100	125	160	160	180	200
		CL300, CL600			176	184	217	226	250	290	357
Center height (open) (mm)	H	CL150			161	163	196	226	250	290	357
		CL300, CL600									
Channel aperture (mm)	d			10	13.5	18	24	29	36.5	45	
Weight (Kg)	CL150	RF			3.4	3.00	6.12	7.2	10.4	15.5	24.5
		BW			2.8	3.3	5.4	6.5	8.2	12.5	20
	CL300	RF			3.77	4.89	7.23	9.6	2.64	18	26.2
		BW			3.5	4.4	6.8	8.1	9.2	15.4	22
	CL600	RF			4.2	5.8	8.8	12.1	15.6	19.5	32
		BW			4.5	5.1	8.2	10.5	12.4	20.1	28

The end connection is a welded flange or butt welded connection, and the design is BS5352



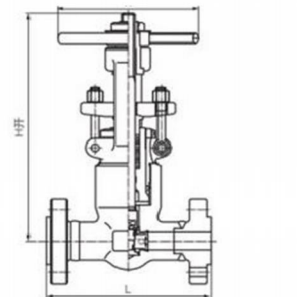
NPS			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length (mm)	L (RF)				216	229	254	279	305	368
	L1 (BW)				216	229	254	279	305	371
	L (RTJ)									
Handwheel diameter (mm)	W			125	125	160	180	200	220	
Center height (open) (mm)	H			191	192	219	257	296	316	
Channel aperture (mm)	d			13.5	18	24	29	36.5	45	
Weight (Kg)				7.2	11.5	15.6	16.2	22.6	28.2	

The end connection is a welded flange or butt welded connection, and the design is BS5352



NPS			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length (mm)	L (RF)				264	273	308		384	451
	L1 (BW)				264	273	308		387	454
	L (RTJ)									
Handwheel diameter (mm)	W			125	160	160		200	240	
Center height (open) (mm)	H			207	240	258		355	370	
Channel aperture (mm)	d			13.5	13.5	19		30	36.5	
Weight (Kg)				19.5	21.5	42		65	95	

The end connection is welded flange or butt welded connection, designed according to ASME B16.342500



NPS			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length (mm)	L (RF)				264	273	308		384	451
	L1 (BW)				264	273	308		387	454
	L (RTJ)									
Handwheel diameter (mm)	W			200	200	200		280	300	
Center height (open) (mm)	H			325	325	327		478	540	
Channel aperture (mm)	d			13.5	13.5	19		30	36.5	
Weight (Kg)				14.6	16.8	17.6		25	31.9	

The end connection is welded flange or butt welded connection, designed according to ASME B16.34

## CL150-300-600

Bolted cap, reduced diameter, open rod support (OS&Y)

## CL900-CL1500

Bolted cap, full diameter, open rod bracket (OS&Y)

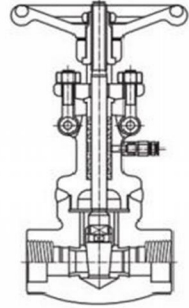
## CL2500

Bolted Cap (RJ), full diameter, open rod bracket (OS&Y)

## CL2500

Pressure self-tightening seal gate valve, full diameter, open rod support (OS&Y)

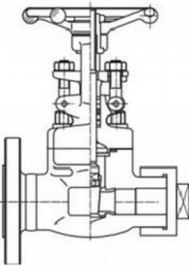
# Special Purposes Gate Valves



- ※ Welded bonnet
- ※ Pole support
- ※ Double packing
- ※ Spacer ring
- ※ Gre ase injection valve
- ※ Rigid valve plate

## Vacuum gate valve

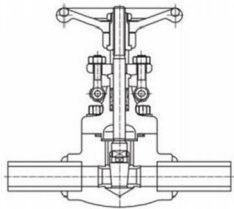
CLASS 800 API602-ES 5352 Reduced and full diameter	Temperature and pressure rating	Materials		
		Body/bonnet	internals	bolt
	1975 psi@100° F	Carbon steel	13Cr	E7



- ※ Bolted bonnet
- ※ Pole support
- ※ Tube and cap connection
- ※ Rigid valve plate

## Vent the shower valve

CLASS 800 API602-ES 5352 Reduced and full diameter	Temperature and pressure rating	Materials		
		Body/bonnet	internals	bolt
	1975 psi@100° F	Carbon steel	13Cr	E7



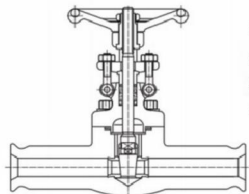
- ※ Bolted bonnet
- ※ Pole support
- ※ Rigid valve plate
- ※ Double-ended pipe connection

## Pipe joint valve

CLASS 800 API602-ES 5352 Reduced and full diameter	Temperature and pressure rating	Materials		
		Body/bonnet	internals	bolt
	1975 psi@100° F	Carbon steel	13Cr	E7

Note: Please inform OULAM sales staff when ordering pipe length.

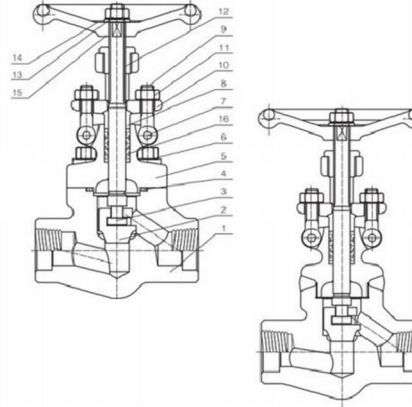
## Clamped gate valve



- ※ Bolted bonnet
- ※ Pole support
- ※ Clamp connection
- ※ Rigid valve plate

CLASS 800 API602-ES 5352 Reduced and full diameter	Temperature and pressure rating	Materials		
		Body/bonnet	internals	bolt
	1975 psi@100° F	Carbon steel	13Cr	E7

# Female Threaded And Socket Welded Globe Valves



## Application specification

1. design and manufacture BS5352, MSSSP-118;
2. Connection end size:  
(1) Socket size according to ANSIB16.11; JB/T1751;  
(2) Screw end size according to ANSIB 1.20.1; JB/T7306;
- (3) Welding end size according to ANSI B16.25; JB/T12224;
- (4) Flange end size according to ANSIB16.5; JB79
3. valve inspection and test API598; GB/T13927; JB/T9092
4. Structural characteristics  
Bolted caps (B.B)and stem brackets (OS&Y)Or welded bonnet (W.B)and stem support (OS&Y)
5. Materials shall comply with ANIS/ASTM regulations.
6. Main material:  
A105; LF2: F5;; F11: F22; 304(L); 316(L); F347: F321: F51:  
Monel; 20 alloys etc.

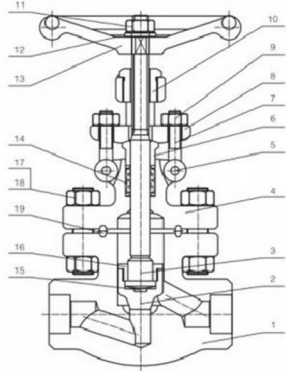
## Carbon steel temperature and pressure rating:

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

## Typical material list

NO	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Valve body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
2	Valve clack	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
3	Valve stem	410	410	304	410	304(L)	316(L)	F51
4	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
5	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
6	Bolt	E7	E7	L7	E16	B8(M)	B8(M)	B8M
7	Pin	410	410	410	410	304	304	304
8	Packing bushing	410	410	304	410	304	316	F51
9	Knuckle bolt	E7	E7	L7	E16	B8(M)	B8(M)	B8M
10	Packing gland	A105	A105	LF2	F11	F304	F304	F304
11	Hexagon nut	2H	2H	2H	2H	8(M)	8(M)	8M
12	Stem nut	410	410	410	410	410	410	410
13	Lock nut	35	35	35	35	35	35	35
14	Dogtag	AL	AL	AL	AL	AL	AL	AL
15	Hand wheel	A197	A197	A197	A197	A197	A197	A197
16	Filler	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite

## Female Threaded And Socket Welded Globe Valves



### Application specification

- 1, design and manufacture BS5352, MSS SP-118;
2. Connection end size
  - (1) Socket size according to ANSIB16.11; JB/T1751
  - (2) Screw end size according to ANSI B1.20.1; JB/T7306
  - (3) Butt welding end size according to ANSIB16.25; JB/T12224
  - (4) Flange end size according to ANSI B16.5; JB79
- 3, valve inspection and test API598; GB/T13927; JB/T9092
4. Structural characteristics
  - Bolted caps (B.B) and stem brackets (OS&Y)
  - Or welded bonnet (W.B) and stem support (OS&Y)
5. Materials shall comply with ANIS/ASTM regulations.
6. Main material A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 alloys etc.

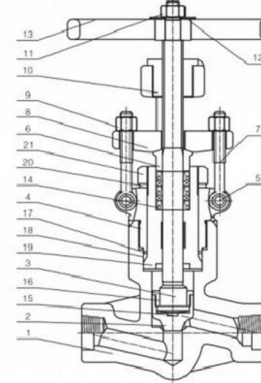
### Carbon steel temperature and pressure rating

CL150-285P.S.1@100° F CL300-740P.S.1@100° F CL600-1480P.S.1@100° F CL800-1975P.S.1@100° F  
CL1500-3705 P.S.1@100° F

### Typical material list

NO	Part name	A105/F65	A1DSIE6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Valve body	A105	A105+HF	Lf2	F11+HF	F304(L)	F316(L)	F51
2	Valve clack	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
3	Valve stem	410	410	304	410	304(L)	316(L)	F51
4	Bonnet	A105	A105	Lf2	F11	F304(L)	F316(L)	F51
5	Pin	410	410	410	410	304	304	304
6	Packing bushing	410	410	304	410	304	316	F51
7	Knuckle bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Packing gland	A105	A105	Lf2	F11	F304	F304	F304
9	Hexagon nut	2H	2H	2H	2H	8(M)	8(M)	8M
10	Stem nut	410	410	410	410	410	410	410
11	Lock nut	35	35	35	35	35	35	35
12	Dogtag	AL	AL	AL	AL	AL	AL	AL
13	Hand wheel	A197	A197	A197	A197	A197	A197	A197
14	Filler	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
15	Valve stem pad	420	420	420	420	316SH	316SH	316SH
16	Disc nut	410	410	410	410	410	410	410
17	Sealing ring gasket	420	420	304	304	304(L)	316(L)	316(L)
18	Self-sealing ring	304	304	304	304	304	316	304
19	Self-sealing seat	420	420	304	304	304(L)	316(L)	F91
20	Nut gasket	410	410	410	410	410	410	410
21	Tension nut	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel

## Pressure Sealing Globe Valves



### Application specification

1. Design and manufacture ASME B16.34;
2. Connection end size
  - (1) Socket size according to ANSIB16.11; JB/T1751
  - (2) Screw end size according to ANSI B1.20.1; JB/T7306
  - (3) Welding end size according to ANSI B16.25; JB/T12224
  - (4) Flange end size according to ANSIB16.5; JB79
- 3, valve inspection and test: API598; GB/T13927; JB/T9092
4. Structural characteristics
  - Bolted bonnet self-tightening seal
  - Y- or T-shaped structure
- 5, materials according to ANSVASTM regulations.
6. Main material A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F91; Monel; 20 alloys etc.

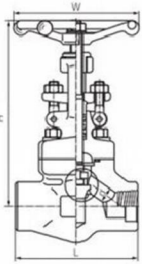
### Carbon steel temperature and pressure rating

CL1500-3705 P.S.1@100° F CL2500-6170P.S.1@100° F

### Typical material list

NO	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F91/410HF
1	Valve body	A105	A105+HF	Lf2	F11+HF	F304(L)	F316(L)	F91+HF
2	Valve clack	410	410	304	410	304(L)	316(L)	410+HF
3	Valve stem	410	410	304	410	304(L)	316(L)	410
4	Bonnet	A105	A105	Lf2	F11	F304(L)	F316(L)	F91
5	Pin	410	410	410	410	304	304	410
6	Packing bushing	410	410	304	410	304	316	410
7	Knuckle bolt	E7	E7	L7	E16	B8(M)	B8(M)	B8
8	Packing gland	A105	A105	Lf2	E11	F304	F304	F91
9	Hexagon nu	2H	2H	2H	2H	8(M)	8(M)	8
10	Stem nut	410	410	410	410	410	410	410
11	Lock nut	35	35	35	35	35	35	35
12	Dogtag	AL	AL	AL	AL	AL	AL	AL
13	Hand wheel	A197	A197	A197	A197	A197	A197	A197
14	Filler	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
15	Valve stem pad	420	420	420	420	316SH	316SH	420
16	Disc nut	410	410	410	410	304(L)	316(L)	410
17	Sealing ring gasket	420	420	304	304	304(L)	316(L)	316(L)
18	Self-sealing ring	304	304	304	304	304	316	304
19	Self-sealing seat	420	420	304	304	304(L)	316(L)	F91
20	Nut gasket	410	410	410	410	410	410	410
21	Tension nut	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel

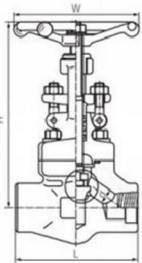
# Female Threaded And Socket Welded Globe Valves



CL800

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
Structure length(mm)	L	79	79	92	111	120	152	172	200	
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200	
Center height (open) (mm)	H	164	164	164	203	224	260	300	355	
Channel aperture (mm)	d	7	9	13	17.5	23	30	35	46	
Weight(Kg)		1.9	2.28	2.37	4.3	5.75	7.8	12.5	17.5	

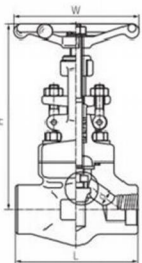
Bolted bonnet,diameter,open rod bracket (OS&Y)  
The end connection can be welded by screw thread or socket.The design is BS5352



CL800

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
Structure length(mm)	L	79	79	92	111	120	152	172	200	
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200	
Center height (open) (mm)	H	164	164	164	203	224	260	300	355	
Channel aperture (mm)	d	7	9	13	17.5	23	30	35	46	
Weight(Kg)		1.7	1.7	1.9	3.3	5.2	6.8	10.6	13.8	

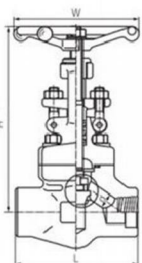
Welded connection bonnet, indent and full diameter, open rod bracket(OS&Y)  
The end connection is threaded, socket welded or butt welded. The design is BS5352



CL900-CL1500

NPS	R.P	1/2	3/8	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
Structure length(mm)	L	92	111	111	120	152	172	200	220	
Handwheel diameter(mm)	W	100	125	125	160	160	180	200	240	
Center height (open) (mm)	H	171	207	207	240	258	330	355	370	
Channel aperture (mm)	d		12	15	20	28	32	40	45	
Weight(Kg)		2.3	3.6	3.7	6.8	7.6	11.6	15	21.9	

Bolted bonnet,diameter,open rod bracket (OS&Y)  
The end connection can be welded by screw thread or socket.The design is BS5352

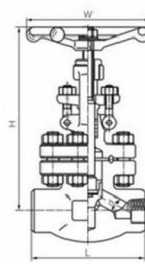


CL900-CL1500

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
Structure length(mm)	L	92	111	111	120	152	172	200	220	
Handwheel diameter(mm)	W	100	125	125	160	160	180	200	240	
Center height (open) (mm)	H	171	207	207	240	258	330	355	370	
Channel aperture (mm)	d		12	15	20	28	32	40	45	
Weight(Kg)		2.2	3.3	3.4	5.6	6.0	10.3	14.2	18.0	

Welded connection bonnet, indent and full diameter, open rod bracket(OS&Y)  
The end connection is threaded, socket welded or butt welded. The design is BS5352

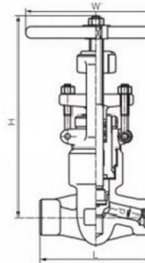
# Female Threaded And Socket Welded Globe Valves



CL900-CL1500

NPS	R.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	L	110	110	150	150		210	235
Structure length(mm)	W	110	110	130	180		210	250
Handwheel diameter (mm)	H	227	227	300	307		400	448
Center height (open) (mm)	d	9	12	15	20		32	40
Weight(Kg)		5	5	10	11.5		22	37

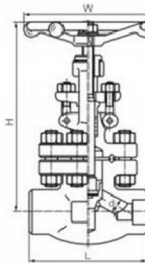
Bolted bonnet(RJ),diameter,open rod bracket (OS&Y)  
The end connection can be welded by screw thread or socket.The design is BS5352



CL900-CL1500

NPS	R.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	L	110	110	150	150		210	235
Structure length(mm)	W	110	110	130	180		210	250
Handwheel diameter (mm)	H	227	227	300	307		400	448
Center height (open) (mm)	d	9	12	15	20		32	40
Weight(Kg)		5	5	10	11.5		22	37

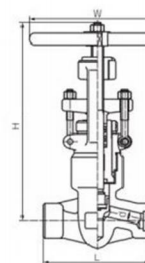
Pressure self-tightening bonnet, full diameter, open rod bracket (OS&Y)  
End connections can be threaded or sleeve welded. This design is BS5352



CL2500

NPS	R.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	L	150	150	210		235	235	
Structure length(mm)	W	130	130	250		300	300	
Handwheel diameter (mm)	H	293	300	390		435	435	
Center height (open) (mm)	d	11	14	19		28	35	
Weight(Kg)		10	10.3	22.4		38	38	

Bolted cap, full diameter, open rod bracket (OS&Y)  
The end connection is socket welding. Design according to ASMEB16.34



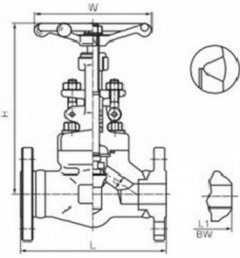
CL2500

NPS	R.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	L	186	186	186	232	232	279	
Structure length(mm)	W	200	200	200	280	280	300	
Handwheel diameter (mm)	H	375	378	380	490	490	540	
Center height (open) (mm)	d	11	14	19	25	28	35	
Weight(Kg)		10.8	11.6	12.3	26.0	28.4	60	

Pressure self-tightening bonnet, full diameter, open rod bracket (OS&Y)  
The end connection is socket welding. Design according to ASMEB16.34



# Flange And Butt-welded Globe Valves



## CL150-300-600

NPS			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	CL150	L (RF)	108	117	127	140	165	203	216	229
	CL300		152	178	203	216	229	241	292	
	CL600	L1 (BW)								
Handwheel diameter (mm)		W			100	100	125	160	160	180
	CL150				180	184	217	224	260	300
	CL300	H			164	164	203	224	260	300
Center height (open) (mm)	CL150									
	CL300									
	CL600									
Channel aperture(mm)		d			9	13	17.5	23	30	35
	CL150	RF			3.45	4.00	6.19	9.6	10.5	17
	CL150	BW			2.3	3.6	7.8	8.2	12.0	15.0
Weight (Kg)	CL300	RF			3.8	5.1	7.2	12	13.5	19.7
		BW			2.8	4.0	8.5	9.2	12.6	16.8
	CL600	RF			5.6	7.8	12.5	17	23.5	38.8
		BW			3.4	4.7	9.2	10.5	13.3	18.9

Bolted cap, reduced diameter, open rod support (OS&Y)  
The end connection is a connection flange or butt welded connection. The design is BS5352

## CL900-CL1500

NPS	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L			216	229	254	279	305	371
Handwheel diameter (mm)	W			125	125	160	160	180	200
Center height (open) (mm)	H			207	207	230	160	300	355
Channel aperture(mm)	d			12	15	20	28	32	40
Weight (Kg)				11	13.2	17.4	19	24.5	31

Bolted Cap (RJ), full diameter, open rod bracket (OS&Y)  
The end connection is a connection flange or butt welded connection. The design is BS5352

## CL2500

NPS	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L			264	273	308		387	454
Handwheel diameter (mm)	W			125	160	200		250	240
Center height (open) (mm)	H			207	240	258		355	300
Channel aperture(mm)	d			11	14	19		28	35
Weight (Kg)				19.5	21.5	42		65	95

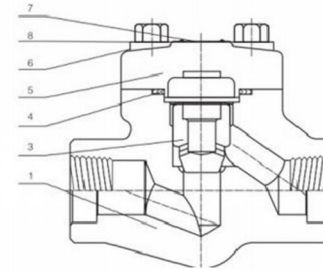
Bolted Cap (RJ), full diameter, open rod bracket (OS&Y)  
The end connection is a connection flange or butt welded connection, designed according to ASME B 16.34

## CL2500

NPS	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L			264	273	308	349	387	454
Handwheel diameter (mm)	W			200	200	280	280	280	300
Center height (open) (mm)	H			320	320	320	440	440	490
Channel aperture(mm)	d			11	14	19	25	28	35
Weight (Kg)				21.5	24.7	30.4	48.1	58.1	130

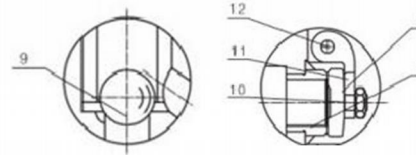
Pressure self-tightening bonnet, full diameter, open rod bracket (OS&Y)  
The end connection is a connection flange or butt welded connection, designed according to ASME B 16.34

# Female Threaded And Socket Welded Check Valves



## Application specification

- Design and manufacture BS5352/MSSSP-118;
- Connection size  
(1) Socket size according to ANSI B16.11; JB/T1751  
(2) Screw end size according to ANSI B1.20.1; JB/T7306  
(3) Welding end size according to ANSI B16.25; JB/T 12224  
(4) Flange end size according to ANSI B16.5; JB/T9  
3, valve inspection and test API598; GB/T13927; JB/T9092  
4, structural feature s: bolted valve cover (B.B)  
5, materials according to ANSWASTM regulations.
- Main material  
A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 alloys etc.



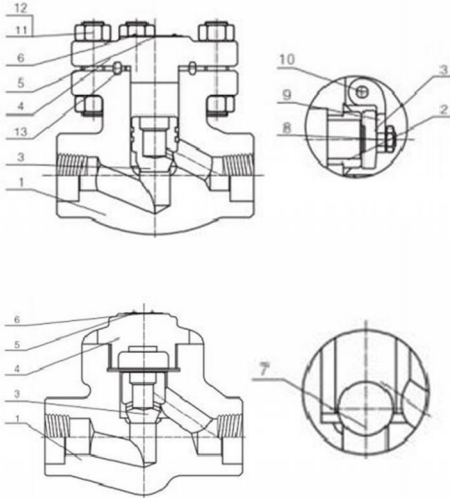
## Carbon steel temperature and pressure rating

- CL150-285 P.S.1@100F CL300-740 P.S.1@100° F  
CL600-1480 P.S.1@100° F CL800-1975 P.S.1@100° F  
CL1500-3705 P.S.1@100° F

## Typical parts material table

NO	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Valve body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Race	410	410HF	304	410HF	304(L)	316(L)	F51
3	Valve clack	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
5	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
6	Bolt	E7	E7	L7	B16	B8 (M)	B8 (M)	B8M
7	Dogtag	AL	AL	AL	AL	AL	AL	AL
8	Rivet	AL	AL	AL	AL	AL	AL	AL
9	Steel ball	430	430	304	STL	316(L)	316(L)	STL
10	Disc nut	2H	2H	8	8	8 (M)	8 (M)	8M
11	Rocker arm	410	410	304	410	316(L)	316(L)	F51
12	Pin	410	410	304	410	304(L)	316(L)	F51

# Female Threaded And Socket Welded Check Valves



## Application specification

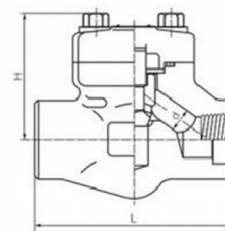
- 1.Design and manufacture BS5352MSSSP-118;
- 2.Connection size
  - (1)Socket size according to ANSI B16.11;JB/T1751
  - (2)Screw end size according to ANSI B1.20.1;JB/T7306
  - (3)Welding end size according to ANSI B16.25;JB/T 12224
  - (4)Flange end size according to ANSI B16.5;JB79
- 3, valve inspection and test API598;GB/T13927;JB/T9092
- 4, structural feature s: bolted valve cover (B.B)
- 5, materials according to ANSVASTM regulations.
- 6.Main material  
A105;LF2;F5;F11;F22;304(L);316(L);F347;F321;F51; Monel;20 alloys etc.

**Carbon steel temperature and pressure rating:**  
 CL150-285 P.S.I@100F CL300-740 P.S.I@100F  
 CL600-1480 P.S.I@100F CL800-1975 P.S.I@100° F  
 CL1500-3705 P.S.I@100° F CL2500-6170 PS.I@100F

## Typical parts material table

NO	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L) /304(L)	F316(L) /316(L)	F51/F51
1	Valve body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Race	410	410HF	304	410HF	304(L)	316(L)	F51
3	Valve clack	F6a	F6a	F304	F6aHF	F304(L)	E316(L)	F51
4	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
5	Dogtag	AL	AL	AL	AL	AL	AL	AL
6	Rivet	AL	AL	AL	AL	AL	AL	AL
7	Steel ball	430	430	304	STL	316(L)	316(L)	STL
8	Disc nut	2H	2H	8	8	8(M)	8(M)	8M
9	Rocker arm	410	410	304	410	316(L)	316(L)	F51
10	Pin	410	410	304	410	304(L)	316(L)	F51
11	Double stud	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
12	Nut	2H	2H	8	8	8(M)	8(M)	8(M)
13	Metal ring	304	304	304	304	304(L)	316(L)	F51

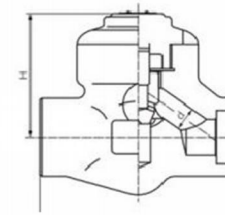
# Female Threaded And Socket Welded Check Valves



CL800

NPS	R.P		1/2		3/4		1		1 1/4		1 1/2		2		
	F.P														
Structure length(mm)	L	Elevating type	79	79	92	111	120	152	172	200					
		Swing type	79	79	92	111	120	120	140	178					
Center height (mm)	H	Elevating type	61	61	61	78	84	84	118	132					
		Swing type	61	61	61	78	84	84	101	133					
Channel aperture (mm)	d	Elevating type	7	9	13	17.5	23	30	35	46					
		Swing type	8	10.5	13.5	18	24	29	36.5	45					
Weight (Kg)		Elevating type	1.2	1.5	1.7	3.3	4.2	4.2	8.5	10.9					
		Swing type	1.4	1.5	1.7	3.3	4.2	4.2	8.5	10.9					

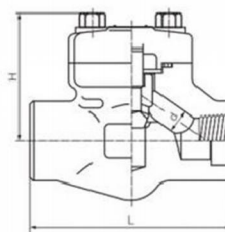
Bolted bonnet, reduced and full diameter. The end connection is threaded, socket welded, or butt welded. The design press is BS5352



CL800

NPS	R.P		1/2		3/4		1		1 1/4		1 1/2		2	
	F.P													
Structure length(mm)	L	Elevating type	79	79	92	111	120	152	172	200				
		Swing type	79	79	92	111	120	120	140	178				
Center height (mm)	H	Elevating type	61	61	61	78	84	103	118	132				
		Swing type	61	61	61	78	84	103	118	132				
Channel aperture (mm)	d	Elevating type	7	9	13	17.5	23	30	35	46				
		Swing type	8	10.5	13.5	18	24	29	36.5	45				
Weight (Kg)		Elevating type	1.2	1.3	1.5	3.0	3.9	6.0	10	12				
		Swing type	1.2	1.3	1.5	3.0	3.9	6.0	10	12				

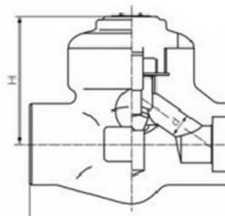
Weld bonnet, reduced and full diameter. The end connection is threaded, socket welded, or butt welded. The design press is BS5352



CL900-CL1500

NPS	R.P		1/2		3/4		1		1 1/4		1 1/2		2	
	F.P													
Structure length(mm)	L	Elevating type	92	111	111	120	152	172	200					
		Swing type	92	111	111	120	120	140	178					
Center height (mm)	H	Elevating type	61	78	78	84	103	118	132					
		Swing type	61	78	78	84	101	120	133					
Channel aperture (mm)	d	Elevating type	7	12	15	20	28	32	40					
		Swing type	8	10.5	13.5	18	24	29	36.5	45				
Weight (Kg)		Elevating type	1.5	3.4	3.4	3.4	4.2	6.3	10.5	12.5				
		Swing type	1.5	3.3	3.4	4.2	5.0	8.5	10.9					

Bolted bonnet, reduced and full diameter. The end connections are threaded or socket welded. The design press is BS5352

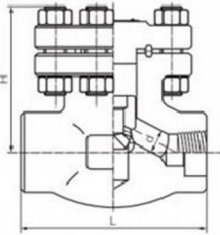


CL900-CL1500

NPS	R.P		1/2		3/4		1		1 1/4		1 1/2		2	
	F.P													
Structure length(mm)	L	Elevating type	92	111	111	120	152	172	200					
		Swing type	92	111	111	120	120	140	178					
Center height (mm)	H	Elevating type	61	78	78	84	103	118	132					
		Swing type	61	78	78	84	103	118	132					
Channel aperture (mm)	d	Elevating type	7	12	15	20	28	32	40					
		Swing type	8	10.5	13.5	18	24	29	36.5	45				
Weight (Kg)		Elevating type	1.3	3.1	3.1	3.9	5.8	10.0	11.5					
		Swing type	1.3	3.1	3.1	3.9	5.8	10.0	11.5					

Weld bonnet, reduced and full diameter. The end connections are threaded or socket welded. The design press is BS5352

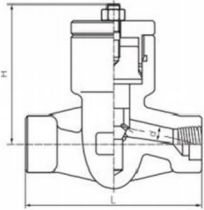
# Female Threaded And Socket Welded Check Valves



NPS	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L	110	110	110	110	150	150	210	235
Center height(mm)	H	166	166	171	207	240	258	330	355
Channel aperture(mm)	d								
	Elevating type	9	10	12	15	20	28	32	40
Weight(Kg)	Swing type	8	10.5	13.5	18	24	29	36.5	45
	Elevating type	2	2.1	1.9	4	5.1	7.2	12.1	14
Weight(Kg)	Swing type	1.9	2.3	2.3	4.35	5.25	7.8	12.5	14.6

Bolt bonnet, reduced and full diameter. The end connection is threaded or socket welded. The design press is BS5352

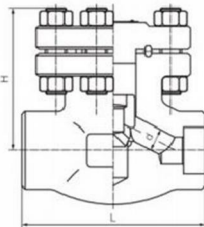
CL900-CL1500



NPS	R.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Structure length(mm)	L	140	140	140	178	216	216		
Center height(mm)	H	117	117	117	152	195	195		
Channel aperture(mm)	d	12	15	20	28	32	40		
Weight(Kg)		6.8	7.0	7.5	18.5	20.3	22		

Pressure self-tightening bonnet, reduced and full diameter. The end connection is threaded or socket welded. The design press is BS5352

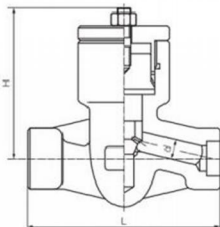
CL900-CL1500



NPS	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L	150	150	150	150	210	235	235	235
Center height(mm)	H	166	166	171	207	240	258	330	355
Channel aperture(mm)	d	7.5	10.5	11	14	19	25	28	35
Weight(Kg)		11.9	12.3	17	46	62	73	58	85

Bolted bonnet, full diameter. End connections are threaded or socket welded, designed according to ASMEB16.34

CL2500

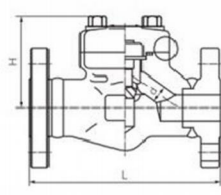


NPS	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L			186	186	186	232	232	279
Center height(mm)	H			117	117	117	152	152	195
Channel aperture(mm)	d			11	14	19	25	28	35
Weight(Kg)				10.5	11	11.8	23	26.4	39

Pressure self-tightening bonnet, full diameter. End connections are threaded or socket welded, designed according to ASMEB16.34

CL2500

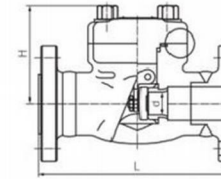
# Flange And Butt-welded Check Valves



NPS	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
Structure length(mm)	CL150	L (RF)			108	118	127	140	165	203
	CL300	L1 (BW)			153	178	203	216	229	26
	CL600				165	19	216	229	241	292
Center height(mm)	CL150	H			77	81	93	95	103	118
	CL300/600				61	78	84	101	120	133
Channel aperture(mm)	d				10	13	17.5	23	30	35
Weight(Kg)	CL150	RF			3.6	4.6	8.5	9.2	12.5	14.8
		BW			3.0	3.6	7.6	8.5	9.2	13.6
	CL300	RF			3.7	4.8	8.8	9.6	13.7	17.8
		BW			3.2	4.3	8.0	8.6	12.7	18.2
	CL600	RF			4.0	5.8	9.5	10.4	15.6	24.5
		BW			3.4	5.1	8.8	9.2	14.8	22.5

Bolt valve cover, reduced diameter. Connect the end flange or butt weld, and press the design button for BS5352

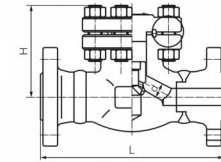
CL150-300-600



NPS	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
Structure length(mm)	CL150	L (RF)			108	118	127	140	165	203
	CL300	L1 (BW)			153	178	203	216	229	26
	CL600				165	19	216	229	241	292
Center height(mm)	CL150	H			77	81	93	95	103	118
	CL300/600				61	78	84	101	120	133
Channel aperture(mm)	d				10.5	13.5	18	22.4	29	36.5
Weight(Kg)	CL150	RF			3.6	4.6	8.5	9.2	12.5	14.8
		BW			3.0	3.6	7.6	8.5	11.3	13.6
	CL300	RF			3.7	4.8	8.8	9.6	13.7	17.8
		BW			3.2	4.3	8.0	8.6	12.7	18.2
	CL600	RF			4.0	5.8	9.5	10.4	15.6	24.5
		BW			3.4	5.1	8.8	9.2	14.8	22.5

Bolt valve cover, reduced diameter. Connect the end flange or butt weld, and press the design button for BS5352

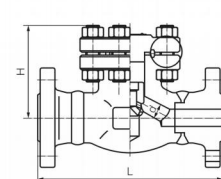
CL150-300-600



NPS	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
Structure length(mm)	CL150	L (RF)			108	118	127	140	165	203
	CL300	L1 (BW)			153	178	203	216	229	267
	CL600				165	19	216	229	241	292
Center height(mm)	CL150	H			77	81	93	95	103	118
	CL300/600				61	78	84	101	120	133
Channel aperture(mm)	d				10	13	17.5	23	30	35
Weight(Kg)	CL150	RF			3.2	3.5	4.6	5.2	7.0	16
		BW			2.8	3.0	4.0	4.6	6.3	15
	CL300	RF			4.6	6.1	9.1	12	16	21
		BW			4.1	5.7	8.4	11.2	14.5	19.5
	CL600	RF			4.8	6.3	9.3	13	16.5	22
		BW			4.4	5.9	8.7	12.1	15.8	20.8

Bolt valve cover, reduced diameter. Connect the end flange or butt weld, and press the design button for BS5352

CL150-300-600

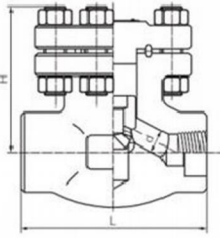


NPS	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
Structure length(mm)	CL150	L (RF)			108	118	127	140	165	203
	CL300	L1 (BW)			153	178	203	216	229	26
	CL600				165	19	216	229	241	292
Center height(mm)	CL150	H			77	81	93	95	103	118
	CL300/600				61	78	84	101	120	133
Channel aperture(mm)	d				10.5	13.5	18	22.4	29	36.5
Weight(Kg)	CL150	RF			3.6	4.6	8.5	9.2	12.5	14.8
		BW			3.0	3.6	7.6	8.5	11.3	13.6
	CL300	RF			3.7	4.8	8.8	9.6	13.7	17.8
		BW			3.2	4.3	8.0	8.6	12.7	18.2
	CL600	RF			4.0	5.8	9.5	10.4	15.6	24.5
		BW			3.4	5.1	8.8	9.2	14.8	22.5

Bolt valve cover, reduced diameter. Connect the end flange or butt weld, and press the design button for BS5352

CL150-300-600

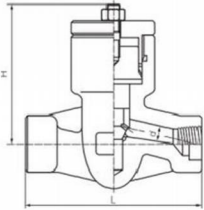
# Female Threaded And Socket Welded Check Valves



NPS	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
Structure length(mm)	L	110	110	110	110	150	150	210	235	
Center height(mm)	H	166	166	171	207	240	258	330	355	
Channel aperture(mm)	d	Elevating type	9	10	12	15	20	28	32	40
		Swing type	8	10.5	13.5	18	24	29	36.5	45
Weight(Kg)		Elevating type	2	2.1	1.9	4	5.1	7.2	12.1	14
		Swing type	1.9	2.3	2.3	4.35	5.25	7.8	12.5	14.6

Bolt bonnet, reduced and full diameter. The end connection is threaded or socket welded. The design press is BS5352

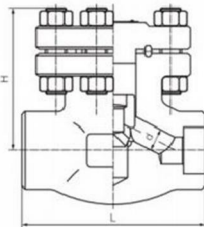
CL900-CL1500



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
Structure length(mm)	L	140	140	140	178	216	216			
Center height(mm)	H	117	117	117	152	195	195			
Channel aperture(mm)	d	12	15	20	28	32	40			
Weight(Kg)		6.8	7.0	7.5	18.5	20.3	22			

Pressure self-tightening bonnet, reduced and full diameter. The end connection is threaded or socket welded. The design press is BS5352

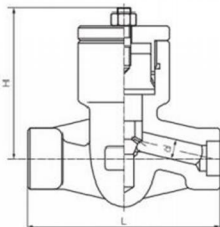
CL900-CL1500



NPS	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L	150	150	150	150	210	235	235	235
Center height(mm)	H	166	166	171	207	240	258	330	355
Channel aperture(mm)	d	7.5	10.5	11	14	19	25	28	35
Weight(Kg)		11.9	12.3	17	46	62	73	58	85

Bolted bonnet, full diameter. End connections are threaded or socket welded, designed according to ASMEB16.34

CL2500

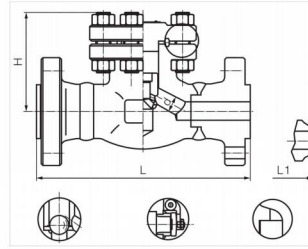


NPS	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L			186	186	186	232	232	279
Center height(mm)	H			117	117	117	152	152	195
Channel aperture(mm)	d			11	14	19	25	28	35
Weight(Kg)				10.5	11	11.8	23	26.4	39

Pressure self-tightening bonnet, full diameter. End connections are threaded or socket welded, designed according to ASMEB16.34

CL2500

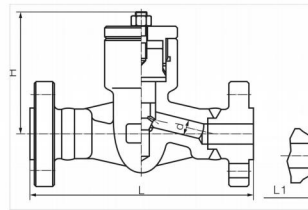
# Flange And Butt-welded Check Valves



NPS	F.P	1/2	3/4	1	1 1/4	1 1/2	2	
Structure length(mm)	L(RJ), L1(BW)	216	229	254	280	305	371	
Center height(mm)	H	81	93	95	101	118	130	
Channel aperture(mm)	d	Elevating type	12	15	20	28	32	40
		Swing type	13.5	18	24	29	36.5	45
Weight(Kg)		Elevating type	5.2	6.8	10.5	28	18	24
		Swing type	5.0	6.1	10.8	29	17.6	27

Bolted bonnet, full diameter. Connect the end flange or butt weld, and press the design button for BS5352

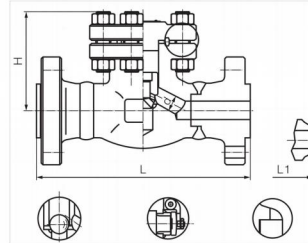
CL900-CL1500



NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	L(RJ), L1(BW)	L(RTJ)	216	229	254	280	305	371
Structure length(mm)	L(RTJ)	216	229	254	280	305	371	
Center height(mm)	H	117	117	117	152	152	195	
Channel aperture(mm)	d	12	15	20	28	32	40	
Weight(Kg)		10.5	11.9	13.9	19.9	26.9	32.5	

Pressure self-tightening seal, threaded bonnet, full diameter. End connection flange or butt welding, design press :B5352

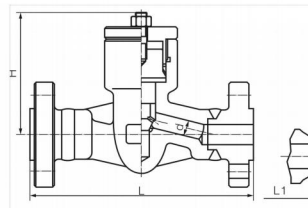
CL900-CL1500



NPS	F.P	1/2	3/4	1	1 1/4	1 1/2	2	
Structure length(mm)	L(RJ), L1(BW)	264	273	308	349	384	450	
	L(RTJ)	264	273	308	352	387	454	
Center height(mm)	H	81	93	95	101	118	130	
Channel aperture(mm)	d	Elevating type	12	15	20	28	32	40
		Swing type	10.5	13.5	18	24	29	36.5
Weight(Kg)		Elevating type	17	21	28	14.5	58	85
		Swing type	5.0	6.1	10.8	11.2	17.6	27

Bolted bonnet, full diameter. End connection flange or butt welding, design according to ASME B16.34

CL150-300-600

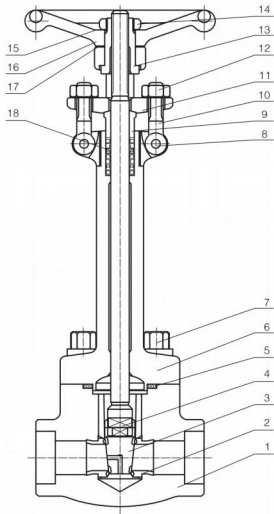


NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L(RJ), L1(BW)	264	273	308	349	384	450	
	L(RTJ)	264	273	308	352	387	454	
Center height(mm)	H	117	117	117	152	152	195	
Channel aperture(mm)	d	12	15	20	32	28	40	
Weight(Kg)		12.6	14.9	16.5	24.8	30	35	

Pressure self-tightening seal, threaded bonnet, full diameter. End connection flange or butt welding, design according to ASME B16.34

CL150-300-600

# Cryogenic Gate Valves



## Application specification

- Design and manufacture API 602 BS5352ANSIB16.34;
- Connection end size  
 (1)Socket size according to ANSI B16.11;JB/T1751  
 (2)Screw end size according to ANSI B1.20.1;JB/T7306  
 (3)Welding end size according to ANSI B16.25;JB/T12224  
 (4)Flange end size according to ANSIB16.5;JB79
- inspection and test:API598;GB/T13927;JB/T9092
- Structural characteristics  
 Bolted caps(B.B)and stem brackets (OS&Y)  
 Or welded bonnet (W.B)and stem support (OS&Y)
- materials according to ANSVASTM regulations.
- Main material:LF2;LF3;304(L);316(L);F347;F321;F51.

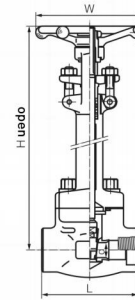
## Carbon steel temperature and pressure rating

CL150-285 PS.1@100° F;CL300-740 PS.1@100° F;  
 CL600-1480 PS.1@100° F;CL800-1975 PS.1@100° F;  
 CL1500-3705 PS.1@100° F

## Typical parts material table

NO	Part name	A105/F6a	A105/F6aHFS	LF2/304	LF3/304	F04(L)/304(L)	F316(L)/316(L)
1	Valve body			LF2	LF3	F304(L)	F316(L)
2	Race			304	304	304(L)	316(L)
3	Ram			F304	F304	F304(L)	F316(L)
4	Valve stem			304	F304	304(L)	316(L)
5	Gasket			304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
6	Bonnet			LF2	LF3	F304(L)	F316(L)
7	Bolt			L7	L7	B8	B8
8	Pin			410	410	304	304
9	Packing bushing			304	304	304	316
10	Knuckle bolt			L7	L7	B8(M)	BB(M)
11	Packing plate			LF2	LF3	F304	F304
12	Hexagon nut			2H	2H	8(M)	8(M)
13	Stem nut			410	410	410	410
14	Lock nut			35	35	35	35
15	Dogtag			AL	AL	AL	AL
16	Hand wheel			A197	A197	A197	A197
17	Lubricating gasket			410	410	410	410
18	Filler			Graphite	Graphite	Graphite	Graphite

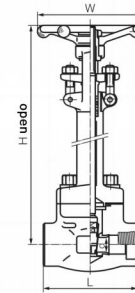
# Female Threaded And Socket Welded Globe Valves



## CL800

NPS	R.F	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	
Structure length(mm)	L	79	79	92	111	120	120	140	178	180
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200	220
Center height (open) (mm)	H	-46°C -196°C	291	291	293	340	375	400	450	490
Channel aperture(mm)	d	7.5	10.5	13.5	18	24	29	36.5	45	51
Weight(Kg)		3.5	3.5	4.3	6.7	10.9	12	14.8	28	36

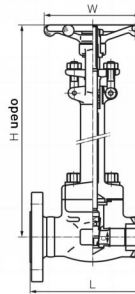
Bolted low temperature extended bonnet, reduced diameter and full diameter, open rod support (OS&Y)  
 The end connection is welded flange or butt welded connection, design according to API602



## CL1500

NPS	R.F	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	
Structure length(mm)	L	79	111	111	120	120	140	178	180
Handwheel diameter(mm)	W	100	125	125	160	160	180	200	220
Center height (open) (mm)	H	-46°C -196°C	321	321	322	359	399	446	480
Channel aperture(mm)	d	7.5	10.5	13.5	18	24	29	36.5	45
Weight(Kg)		3.5	6.7	6.7	11	12.3	15.8	28	45

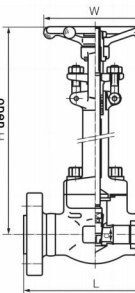
Bolted low temperature extended bonnet, reduced diameter and full diameter, open rod support (OS&Y)  
 The end connection is welded flange or butt welded connection, design according to API602



## CL150-300-600

NPS			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	CL150	(RF)								
Structure length(mm)	CL300	1(BW)			108	118	127		165	178
	CL600				140	153	165		191	216
Handwheel diameter (mm)					165	191	216		241	292
Center height (open) (mm)					100	100	125	160	160	180
Channel aperture(mm)					10.5	13.5	18	24	29	36.5
Weight(Kg)	CL150	RF			5.0	5.5	8.8	13.5	15	20.3
		BW								
	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								

Bolted low temperature extended bonnet, reduced diameter, open rod support (OS&Y)  
 The end connection is welded flange or butt welded connection, design according to API602



## CL1500

NPS	R.F	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L		216	229	254	279	325
Handwheel diameter(mm)	W		125	125	160	160	180
Center height (open) (mm)	H	-46°C -196°C	321	322	359	399	446
Channel aperture(mm)	d		10.5	13.5	18	24	29
Weight(Kg)			14	23	25.3	35.7	47

Bolted low temperature extended bonnet, reduced diameter, open rod support (OS&Y)  
 The end connection is welded flange or butt welded connection, design according to API602

# Cryogenic Globe Valves

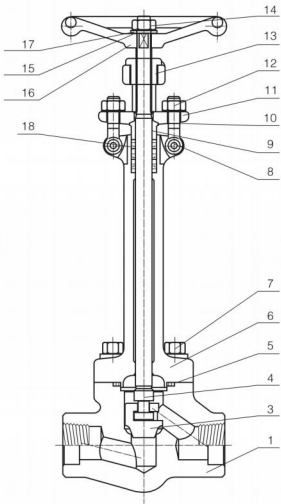


## Application specification

- Design and manufacture API 602 BS5352 ANSI B16.34;
- Connection end size
  - Socket size according to ANSI B16.11;JB/T1751
  - Screw end size according to ANSI 1.20.1;JB/T7306
  - Butt welding end size according to ANSIB16.25;JB/T12224
  - Flange end size according to ANSIB16.5;JB79
- inspection and test:API598;GB/T13927;JB/T9092
- Structural characteristics
 

Bolted caps (B.B)and stem brackets (OS&Y)Or welded bonnet (W.B)and stem support (OS&Y)
- the material according to ANSVASTM.
- Main material:LF2;LF3;304(L);316(L);F347;F321;F51: Monel;20 alloys etc.

**Carbon steel temperature and pressure rating**  
 CL150-285 PS.1@100° F;CL300-740 PS.1@100° F;  
 CL600-1480 PS.1@100° F;CL800-1975 PS.1@100° F;  
 CL1500-3705 PS.1@100° F



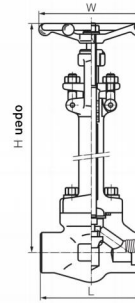
Typical parts material table

NO	Part name	A105/F6a	A105/F6aHFS	LF2/304	LF3/304	F04(L)/304(L)	F316(L)/316(L)
1	Valve body			LF2	LF3	F304(L)	F316(L)
2	Race			304	304	304(L)	316(L)
3	Ran			F304	F304	F304(L)	F316(L)
4	Valve stem			304	304	304(L)	316(L)
5	Plastic shee			304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
6	Bonnet			LF2	LF3	F304(L)	F316(L)
7	Bolt			L7	L7	B8	B8
8	Pin			410	410	304	304
9	Packing bushing			304	304	304	316
10	Knuckle bolt			L7	L7	B8(M)	BB(M)
11	Packing plate			LF2	LF3	F304	F304
12	Hexagon nut			2H	2H	8(M)	8(M)
13	Stem nut			410	410	410	410
14	Lock nut			35	35	35	35
15	Dogtag			AL	AL	AL	AL
16	Hand wheel			A197	A197	A197	A197
17	Lubricating gasket			410	410	410	410
18	Filler			Graphite	Graphite	Graphite	Graphite

# Cryogenic Globe Valves



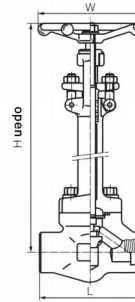
## CL800



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
Structure length(mm)	L	79	79	92	111	120	152	172
Handwheel diameter(mm)	W	100	100	100	125	160	160	180
Center height (open) (mm)	H	-46℃	390	390	415	430	460	490
		-196℃	390	390	415	430	460	490
		-101℃	390	390	415	430	460	490
Channel aperture(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

Bolted low temperature extended bonnet, reduced and full diameter, open rod support (OS&Y)  
 The end connection can be welded by thread or socket, and the design is BS5253

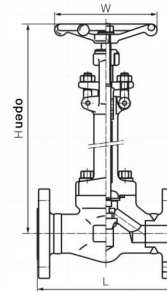
## CL1500



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
Structure length(mm)	L	92	111	111	120	152	172	200
Handwheel diameter(mm)	W	100	125	125	160	160	180	200
Center height (open) (mm)	H	-46℃	370	370	370	410	410	474
		-196℃	370	370	370	410	410	474
		-101℃	370	370	370	410	410	474
Channel aperture(mm)	d	9	12	15	20	28	32	40
Weight(Kg)		7.2	9.5	9.5	10.8	13.5	19.8	29

Bolted low temperature extended bonnet, reduced and full diameter, open rod support (OS&Y)  
 The end connection can be welded by thread or socket, and the design is BS5253

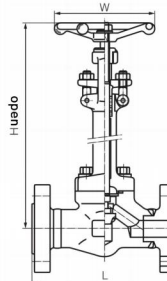
## CL150-300-600



NPS	R.P	1/4	3/8	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	2
Structure length(mm)	L(RF)	CL150		108	118	127		165	203
	L1(BW)	CL300		153	178	203		229	267
Handwheel diameter(mm)	W	CL600		165	191	216		241	292
				100	100	125		160	180
Center height (open) (mm)	H	-46℃		390	415	430		490	505
		-196℃		390	415	430		490	505
		-101℃		390	415	430		490	505
Channel aperture(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

Bolted low temperature extended bonnet, reduced diameter, open rod support (OS&Y)  
 The end connection can be connected by flange or socket welding, and the design is BS5253

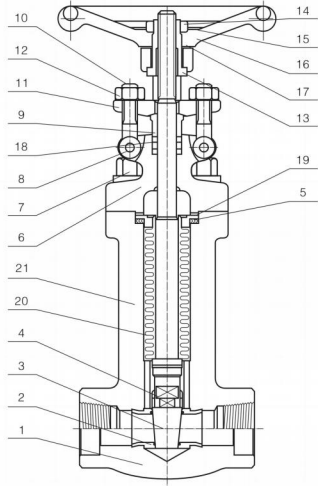
## CL1500



NPS	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L(RG)			216	229	254	280	305	368
Handwheel diameter(mm)	W			125	125	160	160	180	200
Center height (open) (mm)	H	-46℃		370	370	410	410	474	546
		-196℃		370	370	410	410	474	546
		-101℃		370	370	410	410	474	546
Channel aperture(mm)	d			12	15	20	28	32	40

Bolted low temperature extended cap, full diameter, open rod bracket (OS&Y)  
 The end connection can be connected by flange or socket welding, and the design is BS5253

# Bellow Sealed Gate Valves



## Application specification

- Design and manufacture API602;MSS-SP-117
- Connection end size
  - Socket size according to ANSIB 16.11;JB/T1751
  - Screw end size according to ANSI 1.20.1;JB/T7306
  - Butt welding end size according to ANSIB16.25;JB/T12224
  - Flange end size according to ANSIB16.5;JB79
- inspection and test:API598;GB/T13927;JB/T9092
- Structural characteristics
 

Bolted caps (B.B)and stem brackets (OS&Y)Or welded bonnet (W.B)and stem support (OS&Y)
- materials according to ANSVASTM regulations.
- Main material:A105;304(L);316(L);F347;F321.
- corrugated pipe material:304,321,316,Inconel625, Hastelloy C276,Monel,etc.

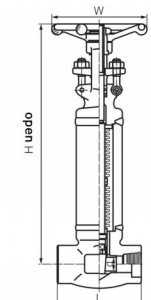
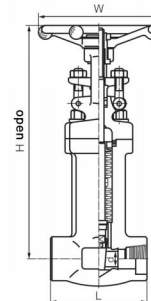
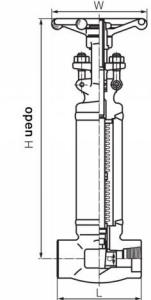
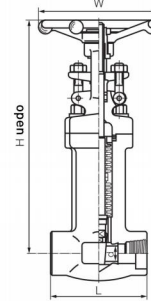
## Carbon steel temperature and pressure rating

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

Typical parts material table

NO	Part name	A105/F6a	A105/Fa6HFS	A105/F6aHF	F304(L)/304(L)	F316(L)/316(L)
1	Valve body	A105	A105	A105	F304(L)	F316(L)
2	Valve seat	410	410HF	410HF	304(L)	316(L)
3	Ran	F6a	F6a	F6aHF	F304(L)	F316(L)
4	Valve stem	410	410	410	304(L)	316(L)
5	Gasket	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite
6	Bonnet	A105	A105	A105	F304(L)	F316(L)
7	Bolt	B7	B7	B7	B8	B8
8	Pin	410	410	410	304	304
9	Packing bushing	410	410	410	304	316
10	Knuckle bolt	B7	B7	B7	B8(M)	B8(M)
11	Packing plate	A105	A105	A105	F304	F304
12	Hexagon nut	2H	2H	2H	8(M)	8(M)
13	Stem nut	410	410	410	410	410
14	Lock nut	35	35	35	35	35
15	Dogtag	AL	AL	AL	AL	AL
16	Hand wheel	A197	A197	A197	A197	A197
17	Lubricating gasket et	410	410	410	410	410
18	Filler	Graphite	Graphite	Graphite	Graphite	Graphite
19	Gasket	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+Flexible graphite
20	Bellows	F321	F321	F321	F316L	F316L

# Bellow Sealed Gate Valves



PNS	R.P	1/2	3/4	1	11/4	11/2	2
	F.P	1/4	3/8	1/2	3/4	1	11/4
structure length(mm)	L	79	79	92	111	120	140
Handwheel diameter (mm)	W	100	100	100	125	160	180
Center height (open) (mm)	H	255	255	285	345	445	594
Channel aperture (mm)	d	7.5	10.5	13.5	18	24	36.5
Weight (Kg)		3.0	3.0	3.3	5.9	8.7	16.2

PNS	R.P	1/2	3/4	1	11/4	11/2	2	
	F.P	1/4	3/8	1/2	3/4	1	11/4	
Structure length(mm)	L	79	79	92	111	120	140	
Handwheel diameter (mm)	W	100	100	100	125	160	180	
Center height (open) (mm)	H	248	548	111	335	437	585	
Channel aperture (mm)	d	7.5	10.5	13.5	18	24	29	36.5
Weight (Kg)		2.9	2.9	3.2	4.6	7.2	8.9	15.5

PNS	R.P	1/2	3/4	1	11/4	11/2	2	
	F.P	1/4	3/8	1/2	3/4	1	11/4	
Structure length(mm)	L	79	111	111	120	120	140	178
Handwheel diameter (mm)	W	100	125	125	160	160	180	180
Center height (open) (mm)	H	294	264	320	379	478	607	636
Channel aperture (mm)	d	7.5	10.5	13.5	18	24	29	36.5
Weight (Kg)		3.1	5.1	5.1	9.0	10.5	16.7	21

PNS	R.P	1/2	3/4	1	11/4	11/2	2	
	F.P	1/4	3/8	1/2	3/4	1	11/4	
Structure length(mm)	L	79	111	111	120	120	140	178
Handwheel diameter (mm)	W	100	125	125	160	160	180	180
Center height (open) (mm)	H	287	287	312	368	465	595	627
Channel aperture (mm)	d	7.5	10.5	13.5	18	24	29	36.5
Weight (Kg)		2.9	4.7	4.7	5.7	7.4	16	19

## CL800

Bolted bonnet, reduced and full diameter, open rod bracket (OS&Y).  
End connections are threaded or socket welded or butt welded, designed according to API602, MSS-SP-117

## CL800

Welded bonnet, reduced and full diameter, open rod bracket (OS&Y).  
End connections are threaded or socket welded or butt welded, designed according to API602, MSS-SP-117

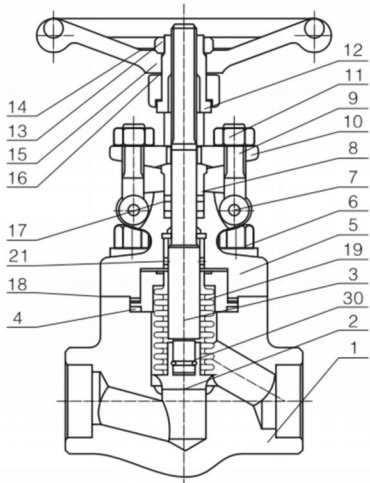
## CL1500

Bolted bonnet, reduced and full diameter, open rod bracket (OS&Y).  
End connections are threaded or socket welded or butt welded, designed according to API602, MSS-SP-117

## CL1500

Welded bonnet, reduced and full diameter, open rod bracket (OS&Y).  
End connections are threaded or socket welded or butt welded, designed according to API602, MSS-SP-117

# Short Pattern Bellow Seal Globe Valves



### Application specification

- Design and manufacture BS5352;MSS-SP-117
- Connection end size
  - Socket size according to ANSIB 16.11;JB/T1751
  - Screw end size according to ANSI B1.20.1;JB/T7306
  - Welding end size according to ANSIB 16.25;JB/T12224
  - Flange end size according to ANSIB16.5;JB79
- inspection and test:API598;GB/T13927;JB/T9092
- Structural characteristics
 

Bolted caps(B.B)and stem brackets (OS&Y)Or welded bonnet (W.B)and stem support (OS&Y)
- materials according to ANSI/ASTM regulations.
- Main material:A105;LF2;F5;F11;F22304(L);316(L);F347;F321;F51;Monel;20 alloys etc.
- corrugated pipe material:304,321,316,Inconel625,Hastelloy,C276,Monel,etc.

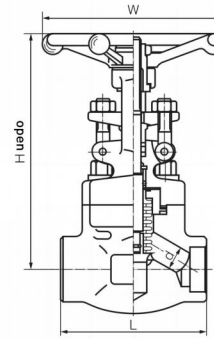
### Carbon steel temperature and pressure rating

CL150-285 P.S.1@100° F;CL300-740P.S.1@100° F;CL600-1480P.S.1@100F;CL800-1975P.S.1@100F;CL1500-3705P.S.1@100° F

### Typical parts material table

NO	Part name	A105/F6a	A105/F6aHFS	A105/F6aHF	F304(L)/304(L)	F316(L)/316(L)
1	Valve body	A105	A105+HF	A105+HF	F304(L)	F316(L)
2	Valve clack	F6a	F6a	F6aHF	E304(L)	F316(L)
3	Valve stem	410	410	410	304(L)	316(L)
4	Gasket	304+Flexible graphite	304+ Flexible graphite	304+Flexible graphite	304+Flexible graphite	304+ Flexible graphite
5	Bonnet	A105	A105	A105	F304(L)	F316(L)
6	Bolt	B7	B7	B7	B8(M)	B8(M)
7	Pin	410	410	410	304	304
8	Packing bushing	410	410	410	304	316
9	Knuckle nut	B7	B7	B7	B8(M)	B8(M)
10	Packing gland	A105	A105	A105	F304	F304
11	Hexagon nut	2H	2H	2H	8(M)	8(M)
12	Stem nut	410	410	410	410	410
13	Lock nut	35	35	35	35	35
14	Dogtag	AL	AL	AL	AL	AL
15	Hand whee	A197	A197	A197	A197	A197
16	Lubricating gasket	410	410	410	410	410
17	Filler	Graphite	Graphite	Graphite	Graphite	Graphite
18	Gasket	304+ Flexible graphite	304+Flexible graphite	304+ Flexible graphite	304+Flexible graphite	304+ Flexible graphite
19	Bellows	F321	F321	F321	F321/304L	F316/316L
20	Steel wire	304	304	304	304	316
21	Pin	304	304	304	304	316

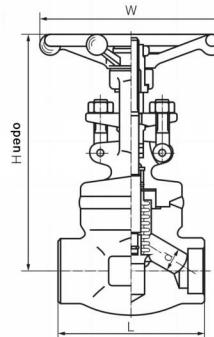
# Bellow Sealed Gate Valves



CL800

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
Structure length(mm)	L	98	98	98	111	140	140	155	170	
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	200	
Center height (open) (mm)	H	180	180	180	188	280	280	295	350	
Channel aperture (mm)	d	7	9	13	17.5	23	30	35	46	
Weight (Kg)		2.6	2.6	3.8	4.6	9.3	9.3	14	19.6	

Bolted bonnet, reduced and full diameter, open rod support (OS&Y)  
The end connection is threaded or record insert blanch, and the design is BS5352 or MSS-SP-117



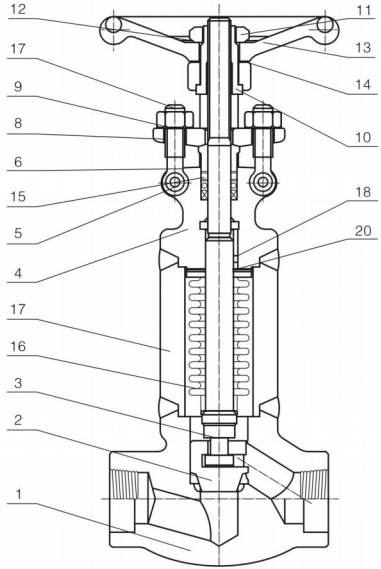
CL800

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
Structure length(mm)	L	79	79	92	100	140	140	155	170	
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	200	
Center height (open) (mm)	H	198	198	198	207	280	280	295	350	
Channel aperture (mm)	d	7	9	13	17.5	23	30	35	46	
Weight (Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	16	

Welded bonnet, reduced and full diameter, open rod support (OS&Y)  
The end connection is threaded or record insert blanch, and the design is BS5352 or MSS-SP-117



# Bellow Sealed Globe Valves



### Application specification

- Design and manufacture API602;MSS-SP-117
- Connection end size
  - Socket size according to ANSIB16.11;JB/T1751
  - Screw end size according to ANSI 1.20.1;JB/T7306
  - Butt welding end size according to ANSIB16.25;JB/T12224
  - Flange end size according to ANSI B16.5;JB79
- inspection and test:API598;GB/T13927;JB/T9092
- Structural characteristics
 

Bolted caps(B.B)and stem brackets (OS&Y)Or welded bonnet (W.B)and stem support (OS&Y)
- materials according to ANSVASTM regulations.
- Main material:A105;304(L);316(L);F347;F321.
- corrugated pipe material:304,321,316,Inconel625, Hastelloy,C276vMonel,etc.

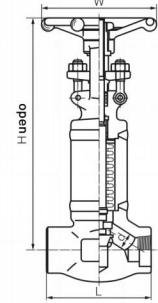
### Carbon steel temperature and pressure rating

CL150-285 P.S.1@100° F;CL300-740P.S.1@100° F;  
CL600-1480P.S.1@100F;CL800-1975P.S.1@100F;  
CL1500-3705P.S.1@100° F

Typical parts material table

NO	Part name	A105/F6a	A105/F6aHFS	A105/F6aHF	F304(L)/304(L)	F316(L)/316(L)
1	Valve body	A105	A105+HF	A105+HF	F304(L)	F316(L)
2	Valve clack	F6a	F6a	F6aHF	F304(L)	F316(L)
3	Gasket	410	410	410	304(L)	316(L)
4	Bolt	A105	A105	A105	F304(L)	F316(L)
5	Pin	410	410	410	304	304
6	Packing bushing	410	410	410	304	316
7	Knuckle bolt	E7	E7	E7	B8(M)	B8(M)
8	Packing gland	A105	A105	A105	F304	F304
9	Hexagon nut	2H	2H	2H	8(M)	8(M)
10	Stem nut	410	410	410	410	410
11	Lock nut	35	35	35	35	35
12	Dogtag	AL	AL	AL	AL	AL
13	Hand wheel	A197	A197	A197	A197	A197
14	Lubricating gasket et	410	410	410	410	410
15	Filler	Graphite	Graphite	Graphite	Graphite	Graphite
16	Bellows	F321	F321	F321	F316	F316L
17	Take over	A105	A105	A105	A304(L)	A316(L)
18	Pin	304	304	304	304	316

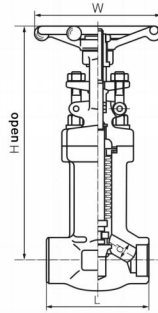
# Bellow Sealed Globe Valves



PNS	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	
Structure length(mm)	L	79	79	92	111	120	152	172	200	
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200	
Center height (open) (mm)	H	237	237	239	270	298	340	395	470	
Channel aperture(mm)		7.0	9.0	13	17.5	23	30	35	46	
Weight(Kg)		2.5	2.6	2.7	4.4	6.7	8.8	15	18.8	

### CL800

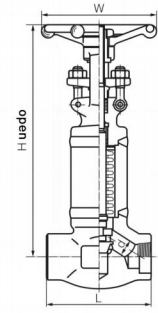
Bolted bonnet, reduced and full diameter, open rod bracket (OS&Y)  
The end connection is threaded or socket welded, and the design is BS5352 or MSS-SP-117



PNS		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	
Structure length(mm)	L	79	79	92	111	120	152	172	200	
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200	
Center height (open) (mm)	H	237	237	239	270	298	340	395	470	
Channel aperture(mm)	d	7.0	9.0	13	17.5	23	30	35	46	
Weight(Kg)		3.1	3.3	4.2	5.5	7.25	9.8	16	21	

### CL800

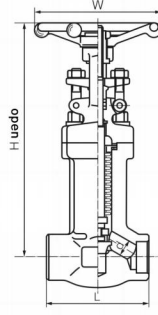
Bolted bonnet, reduced and full diameter, open rod bracket (OS&Y)  
The end connection is threaded or socket welded, and the design is BS5352 or MSS-SP-117



PNS	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	(RF), L1 (BW) (RTJ)				216	229	254	280	305	368
Structure length(mm)					216	229	254	280	305	371
Handwheel diameter(mm)	W			125	125	160	160	180	200	
Center height (open) (mm)	H			380	380	400	450	520	650	
Channel aperture(mm)	d			12	15	20	28	32	40	
Weight(Kg)				11.1	11.8	14.1	16.5	23.8	37.5	

### CL1500

Bolted cap, full diameter, open rod bracket (OS&Y)  
The end connection is threaded or socket welded, and the design is BS5352 or MSS-SP-117



PNS	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	(RF), L1 (BW) (RTJ)				216	229	254	280	305	368
Structure length(mm)	L	92	92	111	111	120	152	172	200	
Handwheel diameter(mm)	W	100	100	125	125	160	160	180	200	
Center height (open) (mm)	H	290	330	380	380	400	450	520	650	
Channel aperture(mm)	d	7	9	12	15	20	28	32	40	
Weight(Kg)		3.3	3.5	5	7.5	10	16	27	30	

### CL1500

Bolted cap, full diameter, open rod bracket (OS&Y)  
The end connection is threaded or socket welded, and the design is BS5352 or MSS-SP-117

# Bellow Sealed Globe Valves



## CL150-300-600

NPS		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	CL150	L (RF)			108	117	127	140	165	203
	CL300	L1 (BW)			152	178	203	216	229	267
	CL600				165	190	216	229	241	292
Handwheel diameter (mm)	W			100	100	125	160	160	180	
Center height (open) (mm)	L150/CL300	H			340/350	340/350	360/375	380/400	450/470	540/570
	CL600				360	360	390	430	500	600
Channel aperture (mm)	d			9	13	17.5	23	30	35	
Weight (Kg)	CL150	RF/BW			3.67/3	4.3/3.6	6.3/5.7	10.5/9.5	11.5/9.8	19.5/16
	CL300	RF/BW			4/3.2	4.8/4	7.3/6.7	13/11	14.5/12	22/18
	CL600	RF/BW			5.8/4.7	8.1/6	12.5/9	18/14	24.5/18	42/36

Welded bonnet, reduced diameter, open rod support (OS&Y)  
The end links are flanged or butt welded, and the design is BS5352 or MsS-SP-117

## CL150-300-600

NPS		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	CL150	L (RF)			108	117	127	140	165	203
	CL300	L1 (BW)			152	178	203	216	229	267
	CL600				165	190	216	229	241	292
Handwheel diameter (mm)	W			100	100	125	160	160	180	
Center height (open) (mm)	L150/CL300	H			340/350	340/350	360/375	380/400	450/470	540/570
	CL600				360	360	390	430	500	600
Channel aperture (mm)	d			9	13	17.5	23	30	35	
Weight (Kg)	CL150	RF/BW			4.17/3.5	4.8/4.1	7.7/6.7	12.5/11.5	14/11.5	21.5/18
	CL300	RF/BW			4.5/3.7	5.2/4.5	8.3/7.7	14.5/12.5	16/13.5	24/20
	CL600	RF/BW			6.3/5.2	8.6/6.5	13.5/10	19.5/15.5	26/19.5	44/38

Bolted cap, reduced diameter, open rod support (OS&Y)  
The end links are flanged or butt welded, and the design is BS5352 or MsS-SP-117

## CL1500

NPS		F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L (RF), L1 (BW)				216	229	254	280	305	368
	L (RTJ)				216	229	254	280	305	371
Handwheel diameter (mm)	W			125	125	160	160	180	200	
Center height (open) (mm)	H				380	380	400	450	520	650
					380	380	400	450	520	650
Channel aperture (mm)	d			12	15	20	28	32	40	
Weight (Kg)					11.1	11.8	14.1	16.5	23.8	37.5

Welded bonnet, full diameter, open rod support (OS&Y)  
The end links are flanged or butt welded, and the design is BS5352 or MsS-SP-117

## CL1500

NPS		F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	(RF), L1 (BW)				216	229	254	280	305	368
	L (RTJ)				216	229	254	280	305	371
Handwheel diameter (mm)	W			125	125	160	160	180	200	
Center height (open) (mm)	H				380	380	400	450	520	650
					380	380	400	450	520	650
Channel aperture (mm)	d			12	15	20	28	32	40	
Weight (Kg)					11.6	12.3	15	17.5	25	38.3

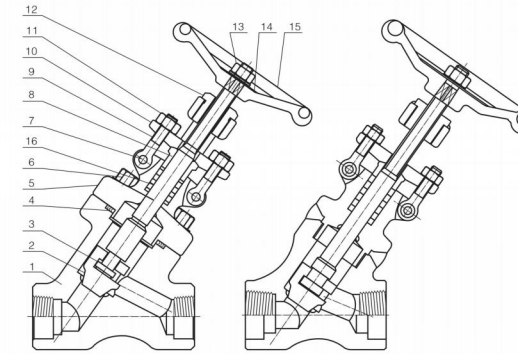
Bolted cap, full diameter, open rod bracket (OS&Y)  
The end links are flanged or butt welded, and the design is BS5352 or MsS-SP-117

# Female Threaded Y Type Globe Valves



## Application specification

1. design and manufacture BS5352, MSSSP-118;
2. Connection end size  
(1) Socket size according to ANSI B16.11; JB/T1751  
(2) Screw end size according to ANSI 1.20.1; JB/T7306  
(3) Butt welding end size according to ANSIB16.25; JB/T12224  
(4) Flange end size according to ANSI B16.5; JB79
3. valve inspection and test API598; GB/T13927; JB/T9092
4. Structural characteristics  
Bolted Bonnet (B.B) and rod support (OS&Y)  
Or welded bonnet (W.B) and stem support (OS&Y)
5. Materials shall comply with ANIS/ASTM regulations.
6. Main material A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 alloy; Hastelloy, etc.



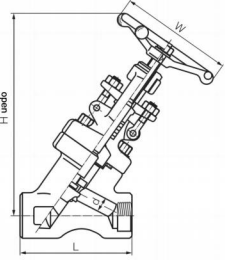
## Carbon steel temperature and pressure rating:

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

## Typical material list

NO	Part name	A105/F6a	A105/F6aHF	LF2/304	F11/F6aHF	F304(L) /304(L)	F316(L) /316(L)	F51/F51
1	Valve body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
2	Valve clack	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
3	Valve stem	410	410	304	410	304(L)	316(L)	F51
4	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
5	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
6	Bolt	B7	B7	L7	E16	B8(M)	B8(M)	B8M
7	Pin	410	410	410	410	304	304	304
8	Packing bushing	410	410	304	410	304	316	F51
9	Articulated gland	B7	B7	L7	E16	B8(M)	B8(M)	B8M
10	Packing gland	A105	A105	LF2	F11	F304	F304	F304
11	Hexagon nut	2H	2H	2H	2H	8(M)	8(M)	8M
12	Stem nut	410	410	410	410	410	410	410
13	Lock nut	35	35	35	35	35	35	35
14	Dogtag	AL	AL	AL	AL	AL	AL	AL
15	Hand wheel	A197	A197	A197	A197	A197	A197	A197
16	Filler	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite

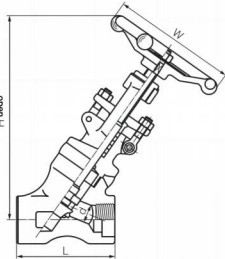
# Y Type Globe Valves



NPS	R.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
FP	1/4	3/8	1/2	3/4		1 1/4	1 1/2	2	2 1/2
Structure length(mm)	98	98	98	111	140	140	155	170	
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200
Center height (open) (mm)	H	180	180	180	188	280	280	295	350
Channel aperture(mm)	d	7	9	13	17.5	23	30	35	46
Weight(Kg)		2.6	2.6	3.8	4.6	9.3	9.3	14	19.6

## CL800

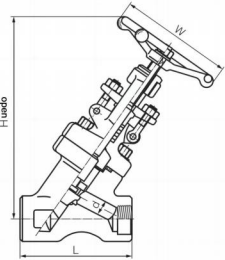
Bolted bonnet, reduced and full diameter, open rod support (OS&Y)  
The end connections are threaded or socket welded, designed according to BS5253



NPS	R.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
FP	1/4	3/8	1/2	3/4		1 1/4	1 1/2	2	2 1/2
Structure length(mm)	L	79	79	92	100	140	140	155	170
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200
Center height (open) (mm)	H	198	198	198	207	280	280	295	350
Channel aperture(mm)	d	7	9	13	17.5	23	30	35	46
Weight(Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	16

## CL800

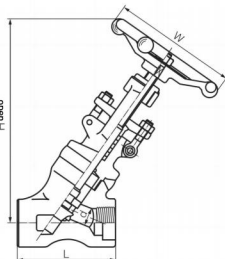
Welded bonnet, reduced and full diameter, open rod support (OS&Y)  
The end connections are threaded or socket welded, designed according to BS5253



NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Structure length(mm)	L	98	111	111	140	140	155	170	
Handwheel diameter(mm)	W	100	125	125	160	160	180	200	
Center height (open) (mm)	H	175	175	215	215	254	305	305	
Channel aperture(mm)	d	9	12	15	20	28	32	40	
Weight(Kg)		2.6	4.6	4.6	9.3	9.3	14	19.6	

## CL900-CL1500

Bolted cap, full diameter, open rod bracket (OS&Y)  
The end connections are threaded or socket welded, designed according to BS5253

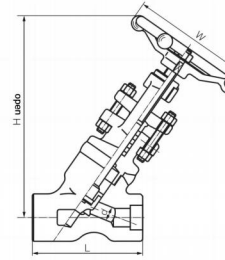


NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Structure length(mm)	L	92	100	100	140	140	155	170	
Handwheel diameter(mm)	W	100	125	125	160	160	180	200	
Center height (open) (mm)	H	175	207	207	280	280	295	350	
Channel aperture(mm)	d	9	12	15	20	28	32	40	
Weight(Kg)		1.8	3.5	3.5	8.0	8.0	12	16	

## CL900-CL1500

Welded bonnet, full diameter, open rod support (OS&Y)  
The end connections are threaded or socket welded, designed according to BS5253

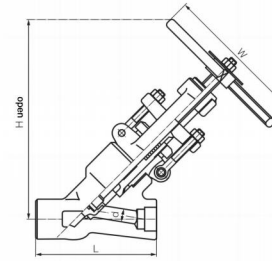
# Y Type Globe Valves



NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L	186	186	186	186	232	232	310
Handwheel diameter(mm)	W	200	200	200	200	280	280	300
Center height (open) (mm)	H	329	329	329	329	350	350	383
Channel aperture(mm)	d	9	11	14	19	25	28	35
Weight(Kg)		10.8	11.6	12.3	12.3	28.0	26.4	43.8

## CL2500

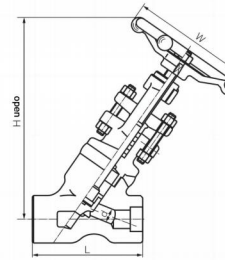
Welded bonnet, full diameter, open rod support (OS&Y)  
The end connection is welded socket connection, designed according to ASME16.34



NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L	186	186	186	186	232	232	310
Handwheel diameter(mm)	W	200	200	200	200	280	280	300
Center height (open) (mm)	H	333	333	333	333	406	406	524
Channel aperture(mm)	d	9	11	14	19	25	28	35
Weight(Kg)		10.8	11.6	12.3	12.3	28.0	26.4	43.8

## CL2500

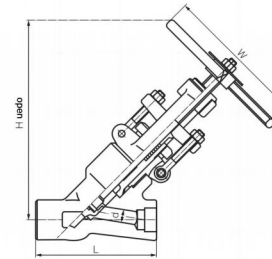
Pressure self-tightening seal bonnet, full diameter, open rod support (OS&Y)  
The end connection is welded socket connection, designed according to ASME16.34



NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L	155	155	155	155		225	225
Handwheel diameter(mm)	W	220	220	220	220		300	320
Center height (open) (mm)	H	350	350	350	380		453	453
Channel aperture(mm)	d	9	11	11	15		26	28
Weight(Kg)		9.4	9.6	9.6	10.5		34	36

## CL4500

Welded self-tightening connection bonnet, full diameter, open rod bracket (OS&Y)  
End connections are threaded or socket welded, designed according to ASME16.34

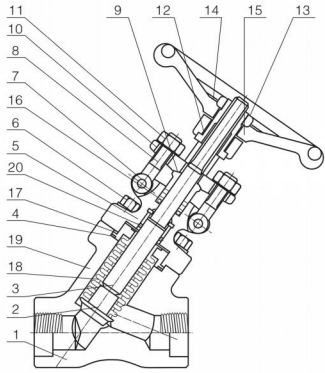


NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length(mm)	L	200	200	200	200	250	250	330
Handwheel diameter(mm)	W	280	280	280	280	300	300	320
Center height (open) (mm)	H	400	400	400	400	460	460	540
Channel aperture(mm)	d	9	11	11	15	20	26	28
Weight(Kg)		30	30	30	30	30	36	58

## CL4500

Pressure self-tightening seal bonnet, full diameter, open rod support (OS&Y)  
The end connection is welded socket connection, designed according to ASME16.34

# Short Pattern Bellow Seal Globe Valves



### Application specification:

- 1.Design and manufacture BS5352;MSS-SP-117
- 2.Connection end size
  - (1)Socket size according to ANSIB 16.11;JB/T1751
  - (2)Screw end size according to ANSI 1.20.1;JB/T7306
  - (3)Welding end size according to ANSIB 16.25;JB/T12224
  - (4)Flange end size according to ANSI B16.5;JB79
- 3.inspection and test:API598;GB/T13927;; JB/T9092
- 4.Structural characteristics
 

Bolted caps(B.B)and stem brackets (OS&Y)Or welded bonnet (W.B)and stem support (OS&Y)
- 5.materials according to ANSVASTM regulations.
- 6.Main material:A105;LF2:F5;F11;F22304(L);316(L):F347;F321:F51;Monel; 20 alloys etc.
- 7.corrugated pipe material:304,321,316,Inconel625,Hastelloy,C276, Monel,etc.

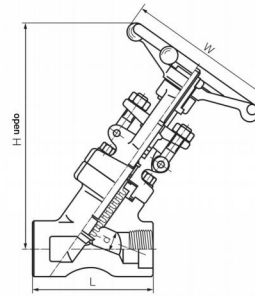
### Carbon steel temperature and pressure rating

CL150-285P.S.1@100° F;CL300-740P.S.1@100° F;CL600-1480P.S.1@100° F;CL800-1975P.S.1@100° F;  
CL1500-3705P.S.1@100° F

### Typical parts material table

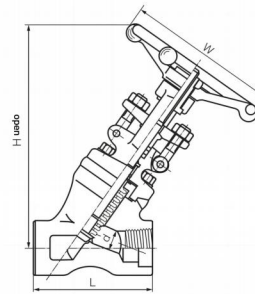
NO	Part name	A105/F6a	A105/F6aHFS	A105/F6aHF	F304(L) /304(L)	F316(L) /316(L)
1	Valve body	A105	A105+HF	A105+HF	F304(L)	F316(L)
2	Valve clack	F6a	F6a	F6aHF	F304(L)	F316(L)
3	Valve stem	410	410	410	304(L)	316(L)
4	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+Flexible graphite
5	Bonnet	A105	A105	A105	F304(L)	F316(L)
6	Bolt	B7	B7	B7	B8(M)	B8(M)
7	Pin	410	410	410	304	304
8	Packing bushing	410	410	410	304	316
9	Knuckle nut	B7	B7	B7	B8 (M)	B8(M)
10	Packing gland	A105	A105	A105	F304	F304
11	Hexagon nut	2H	2H	2H	8(M)	8(M)
12	Stem nut	410	410	410	410	410
13	Lock nut	35	35	35	35	35
14	Dogtag	AL	AL	AL	AL	AL
15	Hand whe e	A197	A197	A197	A197	A197
16	Lubricating gasket	410	410	410	410	410
17	Filler	Graphite	Graphite	Graphite	Graphite	Graphite
18	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+Flexible graphite
19	Bellows	F321	F321	F321	F321/304L	F316/316L
20	Steel wire	304	304	304	304	316
21	Pin	304	304	304	304	316

# Short Pattern Bellow Seal Globe Valves



PWS	R.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	CL800
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
Structure length(mm)	L	79	79	92	111	120	152	172	200	
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200	
Center height (open) (mm)	H	162	162	164	200	220	257	295	350	
Channel aperture(mm)	d	7.0	9.0	13	17.5	23	30	35	46	
Weight(Kg)		2.3	2.4	2.5	4.35	5.75	7.8	12.5	17.5	

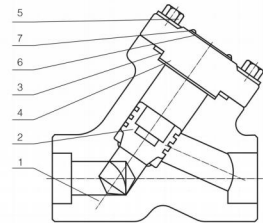
Bolted bonnet, reduced and full diameter, open rod bracket (OS&Y)  
The end connection is threaded or socket welded, and the design is BS5352 or MsS-SP-117



PWS	R.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	CL800
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
Structure length(mm)	L	79	79	92	111	120	152	172	200	
Handwheel diameter(mm)	W	100	100	100	125	160	160	180	200	
Center height (open) (mm)	H	162	162	164	200	220	257	295	350	
Channel aperture(mm)	d	7.0	9.0	13	17.5	23	30	35	46	
Weight(Kg)		1.7	1.8	1.9	3.3	5.2	6.8	10.6	13.8	

Bolted bonnet, reduced and full diameter, open rod bracket (OS&Y)  
The end connection is threaded or socket welded, and the design is BS5352 or MsS-SP-117

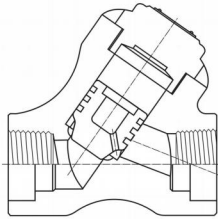
# Female Threaded Welded Y Type Check Valves



If the spring is to be loaded, it must be indicated in the order



Ball valve and check valve diagram



### Application specification:

1. Design and manufacture BS5352MSSSP-118;
2. Connection size
  - (1) Socket size according to ANSI B16.11; JB/T1751
  - (2) Screw end size according to ANSIB 1.20.1; JB/T7306
  - (3) Welding end size according to ANSI B16.25; JB/T12224
  - (4) Flange end size according to ANSIB16.5; JB79
3. valve inspection and test: API598; GB/T13927; JB/T9092
4. structural features: bolted valve cover (B.B) Welded valve cover (W.B)
5. materials according to ANSI/ASTM regulations.
6. Main material  
A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 alloys etc.

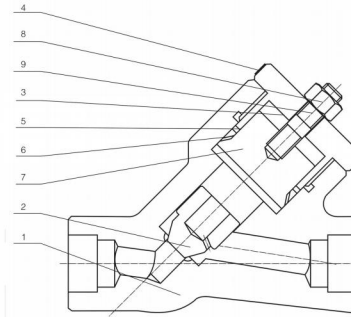
### Carbon steel temperature and pressure rating

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

### Typical parts material table

NO	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Valve body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Valve clack	410	410HF	304	410HF	304(L)	316(L)	F51
3	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
4	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
5	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
6	Dogtag	AL	AL	AL	AL	AL	AL	AL
7	Rivet	AL	AL	AL	AL	AL	AL	AL
8	Steel ball	430	430	304	STL	316(L)	316(L)	STL

# Y Type Pressure Sealed Check Valves



### Application specification:

1. Design and manufacture ASME B16.34 MSS SP-118;
2. Connection size
  - (1) Socket size according to ANSI B16.11; JB/T1751
  - (2) Screw end size according to ANSI 1.20.1; JB/T7306
  - (3) Welding end size according to ANSI B16.25; JB/T12224
  - (4) Flange end size according to ANSI B16.5; JB79
3. valve inspection and test: API598; GB/T13927; JB/T9092
4. structural features: screw connected valve cover pressure self-tightening seal; Y – or T-shaped structure
5. materials according to ANSI/ASTM regulations.
6. Main material  
A105; LF2; F5; F11; F22; 304(L); 316(L); F347;F321; F51; Monel; 20 alloys etc.

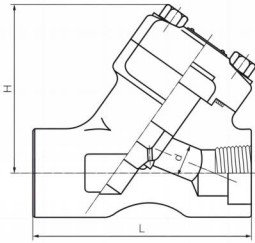
### Carbon steel temperature and pressure rating:

CL1500-3705P.S.1@100° F CL2500-6170P.S.1@100° F CL4500-1111P.S.1@100° F

### Typical parts material table

NO	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Valve body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
2	Valve clack	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
3	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
4	Dogtag	AL	AL	AL	AL	AL	AL	AL
5	Sealing ring gasket	420	420	304	304	304(L)	316(L)	410
6	Self-sealing ring	304	304	304	304	316L	316L	316L
7	Self-sealing seat	F410	F410	F304	F410	F304	F316	F51
8	Lifting nut	2H	2H	8	8	8(M)	8(M)	8M
9	Lifting bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M

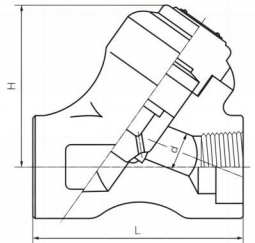
# Y Type Check Valves



NPS	R.P	1/4	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	98	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Structure length (mm)	L	70	98	98	111	140	140	155	170	
Center height (mm)	H	7	70	70	100	110	120	120	150	
Channel aperture (mm)	d	2.1	10	13	17.5	23	30	35	46	
Weight (Kg)			2.2	2.2	4.2	8.9	9	10	18.6	

## CL800

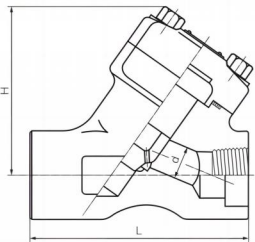
Bolt bonnet, reduced and full diameter.  
The end connection is threaded, socket welded, or butt welded.  
The design press is BS5352



NPS	R.P	1/4	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	79	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Structure length (mm)	L	65	79	92	100	140	140	155	170	
Center height (mm)	H	7	65	65	95	105	110	110	140	
Channel aperture (mm)	d	1.8	10	13	17.5	23	30	35	46	
Weight (Kg)			1.8	2.0	3.5	8.0	8.0	12	16	

## CL800

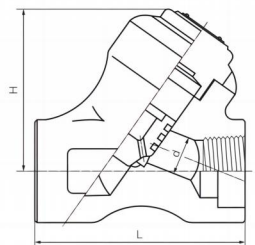
Welded bonnet, reduced and full diameter.  
The end connection is threaded, socket welded, or butt welded.  
The design press is BS5352



NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	Structure length (mm)	L	98	111	111	140	140	155
Center height (mm)	H	70	70	100	110	110	120	150
Channel aperture (mm)	d	9	12	15	20	28	32	40
Weight (Kg)		2.1	4.2	8.9	9	10	18.6	20

## CL900-CL1500

Bolt bonnet, full diameter.  
The end connection is threaded, socket welded, or butt welded.  
The design press is BS5352

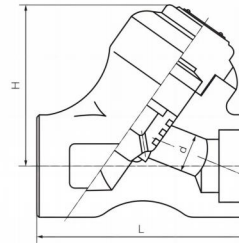


NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	Structure length (mm)	L	92	100	100	140	140	155
Center height (mm)	H	65	65	65	105	110	110	140
Channel aperture (mm)	d	9	12	15	20	32	28	40
Weight (Kg)		2.0	3.5	3.5	8.0	12	12	18

## CL900-CL1500

Welded bonnet, full diameter.  
The end connection is threaded, socket welded, or butt welded.  
The design press is BS5352

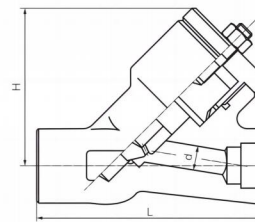
# Y Type Check Valves



## CL2500

NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	Structure length (mm)	L	186	186	186	186	232	232
Center length (mm)	H	115	115	120	150	150	150	160
Channel aperture (mm)	d	9	11	14	19	25	28	35
Weight (Kg)		10.6	10.8	11.2	11.5	25	22	39

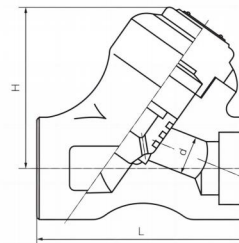
Welded bonnet, full diameter.  
End connections are threaded or socket welded or butt welded according to ASME B16.34



## CL2500

NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	Structure length (mm)	L	186	186	186	186	232	232
Center length (mm)	H	233	233	233	233	256	256	330
Channel aperture (mm)	d	9	11	14	19	25	28	35
Weight (Kg)		10.6	10.8	11.2	11.5	25	22	39

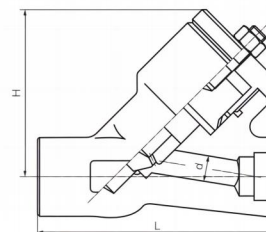
Pressure self-tightening seal, threaded bonnet, full diameter.  
End connections are threaded or socket welded or butt welded according to ASME B16.34



## CL2500

NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	Structure length (mm)	L	155	155	155	155		225
Center length (mm)	H	120	120	120	145		160	160
Channel aperture (mm)	d	9	11	11	15		26	28
Weight (Kg)		8	8.7	8.7	8.7		16.5	16

Welded bonnet, full diameter.  
End connections are threaded or socket welded or butt welded according to ASME B16.34

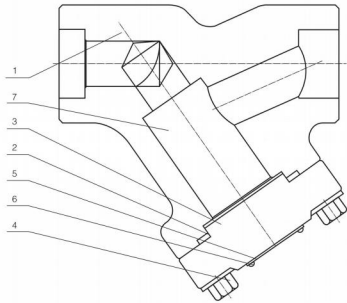


## CL2500

NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	Structure length (mm)	L	186	186	186	186	232	232
Center length (mm)	H	233	233	233	233	256	256	330
Channel aperture (mm)	d	9	11	14	19	25	28	35
Weight (Kg)		10.6	10.8	11.2	11.5	25	22	39

Pressure self-tightening seal, threaded bonnet, full diameter.  
End connections are threaded or socket welded or butt welded according to ASME B16.34

# Y-Type Strainers



### Application specification:

1. Design and manufacture: BS5352 MSSSP-118;
2. Connection end size:
  - (1) Socket size according to ANSI B16.11; JB/T1751
  - (2) Screw end size according to ANSI B1.20.1; JB/T7306
  - (3) Welding end size according to ANSI B16.25; JB/T12224
  - (4) Flange end size according to ANSIB16.5; JB79
- 3, valve inspection and test: API598; GB/T13927; JB/T9092
- 4, structural features: bolted valve cover (B.B) Welded valve cover (W.B)
- 5, materials according to ANSI/ASTM.
6. Main material:
 

A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 alloys etc.

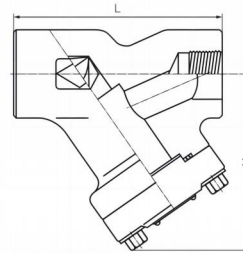
### Carbon steel temperature and pressure rating:

CL150-285 P.S.1@100° F; CL300-740 P.S.1@100° F; CL600-1480 P.S.1@100° F; CL800-1975 P.S.1@100° F; CL1500-3705 P.S.1@100° F; CL2500-6170 P.S.1@100° F

### Typical parts material table

NO	Part name	A105/F6a	A105/Fa6HF5	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Valve body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
3	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
4	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
5	Dogtag	AL	AL	AL	AL	AL	AL	AL
6	Rivet	H62	H62	H62	H62	H62	H62	H62
7	Filter screen	304	304	304	304	304(L)	316(L)	316(L)

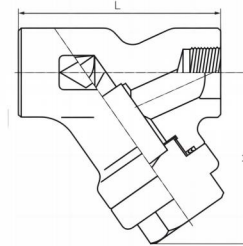
# Y-Type Strainers



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
Structure length (mm)	L	98	98	98	111	140	140	155	170
Center height (open) (mm)	H	70	70	70	100	110	120	120	150
Channel aperture (mm)	d	7	9	13	17.5	30	30	35	46
Weight (Kg)		2.2	2.2	2.1	4.2	8.9	8.9	10	18.6

### CL800

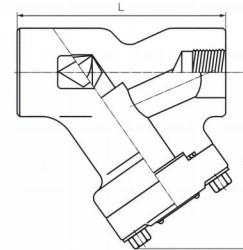
Bolt bonnet, reduced and full diameter. The end connection is threaded, socket welded, or butt welded. The design press is BS5352



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
Structure length (mm)	L	79	79	92	100	140	140	155	170
Center height (open) (mm)	H	65	65	65	95	105	110	110	140
Channel aperture (mm)	d	7	9	13	17.5	23	30	35	46
Weight (Kg)		1.8	1.8	2.0	3.5	9	8.0	12	16

### CL800

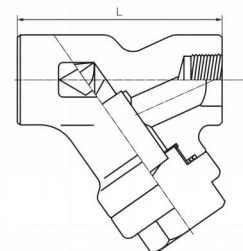
Bolt bonnet, reduced and full diameter. The end connection is threaded, socket welded, or butt welded. The design press is BS5352



NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length (mm)	L	98	111	111	140	140	155	170
Center height (open) (mm)	H	70	70	100	110	120	120	150
Channel aperture (mm)	d	9	12	15	20	28	32	40
Weight (Kg)		2.1	4.2	9	8.9	10	18.6	20

### CL900-CL1500

Bolt bonnet, full diameter. The end connection is threaded, socket welded. The design press is BS5352



NPS	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Structure length (mm)	L	92	100	100	140	140	155	170
Center height (open) (mm)	H	65	65	95	105	110	110	140
Channel aperture (mm)	d	9	12	15	20	28	32	40
Weight (Kg)		2.0	3.5	8.0	8.0	12	16	18

### CL900-CL1500

Bolt bonnet, full diameter. The end connection is threaded, socket welded. The design press is BS5352





# Usual Astm Materials' Chemical Analysis And Physical Properties



## Body and bonnet materials

Chemical composition	Carbon steel	hypothermy						Austrian body stainless steel ASTM-A182							Duplex stainless steel
	A105	LF2	LF3	F5	F91	F11Class2	F22Class3	F304	F304H	F3041	F316	F3161	F347H	F51	
C	0.35	0.35	0.20	0.15	0.08-0.12	0.10-0.20	0.05-0.15	0.08	0.04-0.10	0.035	0.08	0.035	0.04-0.1	0.030	
Mn	0.60-1.0	0.60-1.35	0.90	0.30-0.6	0.30-0.60	0.30-0.80	0.30-0.60	2.00	2.00	2.00	2.00	2.00	2.00	2.00	
P	0.035	0.035	0.035	0.030	0.020	0.040	0.040	0.045	0.045	0.045	0.045	0.045	0.045	0.030	
S	0.040	0.040	0.040	0.030	0.010	0.040	0.040	0.030	0.030	0.030	0.030	0.030	0.030	0.020	
Si	0.10-0.35	0.15-0.30	0.20-0.35	0.50	0.20-0.50	0.50-1.00	0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Ni	0.40	0.40	33-3.7	0.50	0.40	-	-	8.0-11.0	8.0-11.0	8.0-13.0	0.0-14.0	10.0-15.0	9.0-13.0	4.5-6.5	
Cr	0.30	0.30	0.30	4.0-6.0	8-9.5	1.00-1.50	2.00-2.50	18.0-20.0	18.0-20.0	18.0-20.0	16.0-18.0	16.0-18.0	17.0-20.0	21-23	
Mo	0.12	0.12	0.12	0.44-0.65	0.85-1.05	0.44-0.65	0.87-1.13	-	-	-	2.00-3.00	2.00-3.00	-	2.5-3.5	

Mechanical property	ASTM A105	LF2	LF3	F5	F91	F11Class2	F22Class3	F304	F304H	F304L	F316	F316L	F347H	F51
Tensile strength	70	70-95	70-95	70	85	70	75	75	75	70	75	70	75	90
Yield strength	36	36	37.5	40	60	40	45	30	30	25	30	25	30	65
Rate of elongation	22	22	22	20	20	20	20	30	30	30	30	30	30	25
Shrinkage of section	30	30	35	35	40	30	30	50	50	50	50	50	50	45
Brinell hardness	187(2)	197	197	143-217	≤248	143-207	156-207	-	-	-	-	-	-	-

## Internals and bolt materials

Chemical composition	Internal material					Screw inspection leather				
	AISI 416	4	ASTM	Stellite Gr. b	ASTM A193		ATGT	ASTM A194		
					B7	B8	430	2H	G8	
C	0.15max.	0.15max.	0.15max	0.3max	1.00	0.37-0.49	0.08max.	0.12max.	0.40min.	0.08max
Mn	1.00max.	1.25max.	1.00max	2.0max	1.00max	0.65-1.10	2.0max	1.00max.	1.00max	2.00max
P	0.040	0.060max.	0.040			0.035	0.045	0.040	0.040max	0.045
S	0.030	0.15max.	0.030	0.024		0.04	0.030	0.030	0.050max	0.030
Si	1.00max	1.00max	1.00max	0.5max.	1.00	0.15-0.35	4.00max	1.00max.	0.40max	1.00max
Cr	11.50-13.50	12.0-14.0	12.0-14.0		28.00	0.75-1.20	18.0-20.0	14.0-18.0		18.0-20.0
Ni				63.0min	3.0max		8.00-11.0			8.00-11.0
Mo		0.600.max				0.15-0.25				
Cu				28.0-34.0						
其它元素				Ee:25max	Few:4roax. Co:ba ance					

Mechanical property	410	416	420	ASTM A164	Gr. 6	B7	B8	430	2H	G8
Tensile strength	99/85 70/130	85/170 85/170	149/298 105/210	70(2) 49.2	—	125 87.8	75 52.7	75.4 53	—	—
Yield strength	59/170	59/128	119/199	25(2)	—	105	30	40	—	—
Yield strength	42/120	42/90	84/140	17.6	—	73.8	21	28	—	—
Rate of elongation	(15)(1)	(10)(1)	(8)(1)	(35)(2)	—	16	30	28	—	—
Shrinkage of section	50/75	8/60	5/40	—	—	50	50	65	—	—
Brinell hardness	180-375	180/375	300-600	—	HRCmin. 37	—	—	160	248-352	126-300

# SERVICE

## 1 Pre-sale service

Being a good consultant and assistant of the customer; making customers get rich repayment to every investment.

- A. Selection to equipment pattern.
- B. Designing and producing according to the customer's requirement.
- C. Training technician for customer
- D. Offering technical consultation or drawing up proper producing programs for new, special, and difficult projects.

## 2 Sale service

Respecting our customers; making our customer assured, relaxed and pleasant; being devoted to improving the customer's whole value.

- A. On-spot service in guarantee period.
- B. Pre-acceptance and check of the products.
- C. Introducing the Enterprise service system to customers.

## 3 After-sale service

Improving the customer's whole value; letting customers have no worry.

- A. Assisting the customer to draw up the initial project plan.
- B. Debugging of the equipment installation.
- C. Training technician on-spot.
- D. Checking and testing the equipment on terms.
- E. Quick and active; removing the malfunction on spot.
- F. Delivering the guaranteed parts to customers.
- G. Follow-up service for key projects.
- H. Offering over-value service.
- I. Offering opportunities for technical exchanges.
- J. Offering the business for large maintenance.