

# Forged Steel Gate Valve Series

## 锻钢闸阀系列 >>>

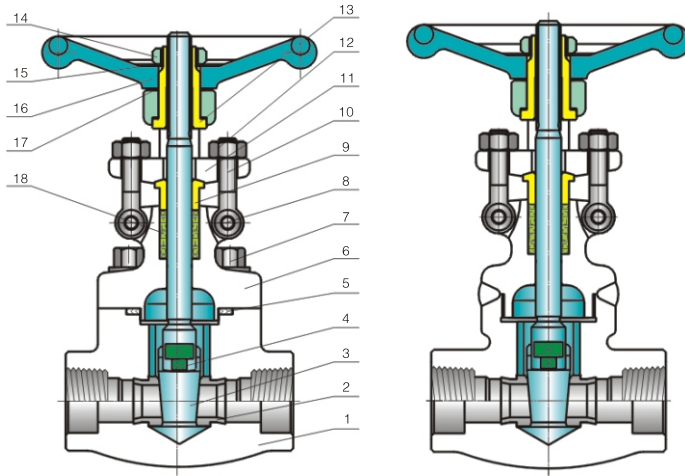


N V F valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male–female joint, spiral wound gasket, made in F304+flexible graphite. Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available. The third design is the pressure seal bonnet, with a threaded and pressure seal bonnet joint.

### ◆ 采用标准/Standards

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>---全径或缩径;</li> <li>---明杆支架式 ( OS &amp; Y ) ;</li> <li>---自定心压板压套式;</li> <li>---螺栓连接、缠绕垫片密封式阀盖;</li> <li>---螺纹连接、全焊密封式阀盖以及螺纹连接内压自紧式阀盖;</li> <li>---整体式上密座;</li> <li>---承插端符合ASME B16.11;</li> <li>---螺纹连接端 ( NPT ) 符合ANSI/ASME B1.20.1。</li> </ul> | <ul style="list-style-type: none"> <li>---Full port or reduced port;</li> <li>---Outside screw and yoke (OS &amp; Y);</li> <li>---Two piece self-aligning packing gland;</li> <li>---Bolted bonnet &amp; spiral wound gasket seal bonnet;</li> <li>---Threaded and seal welded bonnet or threaded and pressure seal bonnet;</li> <li>---Integral backseat;</li> <li>---Socket weld ends to ASME B16.11;</li> <li>---Screwed ends (NPT) to ANSI/ASME B1.20.1.</li> </ul> |
|--|---|

# 内螺纹与承插焊闸阀 FEMALE THREADED AND SOCKET WELDED GATE VALVES



## ◆ 应用规范/Application standards

- 设计制造API 602、BS5352、ANSI B16.34;
  - 连接端尺寸
    - 承插口尺寸按ANSI B16.11; JB/T1751
    - 螺纹端尺寸按ANSI B1.20.1; JB/T7306
    - 对焊端尺寸按ANSI B16.25; JB/T12224
    - 法兰端尺寸按ANSI B16.5; JB79
  - 阀门检查和试验API 598; GB/T13927; JB/T9092
  - 结构特征
 

螺栓连接阀盖(B.B)和明杆支架(OS & Y)  
或焊接阀盖(W.B)和明杆支架(OS & Y)
  - 材料按 ANIS/ASTM的规定。
  - 主体材料
 

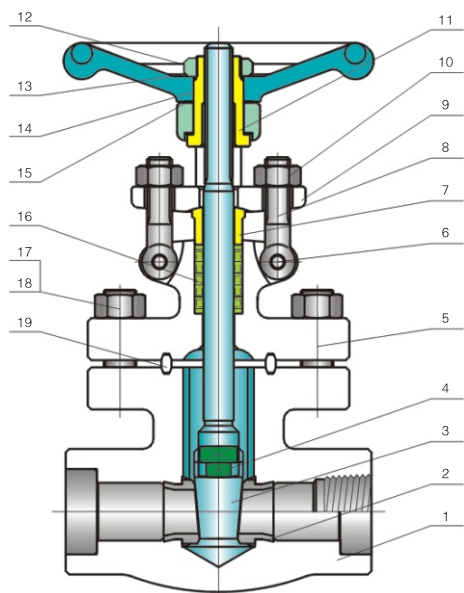
A105; LF2; F5; F11; F22; 304(L); 316(L);  
F347; F321; F51; Monel; 20合金等。
- Design and manufacture conform to:  
API 602、BS5352、ANSI B16.34;
  - Connection ends conform to:
    - Socket welded dimension conform to ANSI B16.11;JB/T1751
    - Screw ends dimension conform to ANSI B1.20.1;JB/T7306
    -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

## ◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

## ◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	座圈 Seat	410	410HF	304	410HF	304(L)	316(L)	F51
3	闸板 Wedge	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	阀杆 Stem	410	410	304	410	304(L)	316(L)	F51
5	垫片 Gasket	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite
6	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	螺栓 Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	销 Pin	410	410	410	410	304	304	304
9	填料压套 Gland	410	410	304	410	304	316	F51
10	活节螺栓 Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	填料压板 Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	六角螺母 Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	阀杆螺母 Stem nut	410	410	410	410	410	410	410
14	锁紧螺母 Locking nut	35	35	35	35	35	35	35
15	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
16	手轮 Handwheel	A197	A197	A197	A197	A197	A197	A197
17	润滑垫片 Lubricating gasket	410	410	410	410	410	410	410
18	填料 Packing	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite



### ◆ 应用规范/Application standards

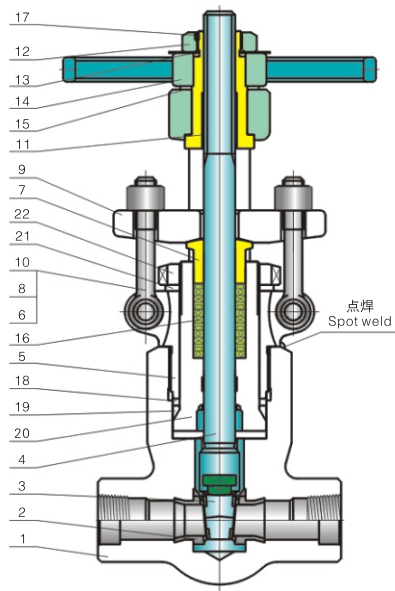
- 1、设计制造API 602、BS5352、ANSI B16.34;
  - 2、连接端尺寸
    - 1)承插口尺寸按ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按ANSI B16.5; JB79
  - 3、阀门检查和试验API 598; GB/T13927; JB/T9092
  - 4、结构特征
    - 螺栓连接阀盖(B.B)和明杆支架(OS & Y)
    - 或焊接阀盖(W.B)和明杆支架(OS & Y)
  - 5、材料按 ANIS/ASTM的规定。
  - 6、主体材料
    - A105; LF2; F5; F11; F22; 304(L); 316(L);
    - F347; F321; F51; Monel; 20合金等。
- 
- 1、Design and manufacture conform to: API 602、BS5352、ANSI B16.34;
  - 2、Connection ends conform to:
    - 1)Socket welded dimension conform to ANSI B16.11;JB/T1751
    - 2)Screw ends dimension conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded conform to ANSI B16.25; JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
  - 4、Structure features:
    - Bolted bonnet, outside screw and yoke
    - Welded bonnet, outside screw and yoke
  - 5、Materials conform to ANIS/ASTM
  - 6、Main materials:
    - A105;LF2;F5;F11;F22;304(L);316(L);
    - F347;F321;F51;Monel;20 Alloy.

### ◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

### ◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	座圈 Seat	410	410HF	304	410HF	304(L)	316(L)	F51
3	闸板 Wedge	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	阀杆 Stem	410	410	304	410	304(L)	316(L)	F51
5	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
6	销 Pin	410	410	410	410	304	304	304
7	填料压套 Gland	410	410	304	410	304	316	F51
8	活节螺栓 Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
9	填料压板 Gland flange	A105	A105	LF2	F11	F304	F304	F304
10	六角螺母 Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
11	阀杆螺母 Stem nut	410	410	410	410	410	410	410
12	锁紧螺母 Locking nut	35	35	35	35	35	35	35
13	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
14	手轮 Handwheel	A197	A197	A197	A197	A197	A197	A197
15	润滑垫片 Lubricating gasket	410	410	410	410	410	410	410
16	填料 Packing	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite
17	双头螺栓 Stud	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
18	螺母 Nut	2H	2H	8	8	8(M)	8(M)	8(M)
19	金属环 Metal ring	304	304	304	304	304(L)	316(L)	F51



### ◆ 应用规范/Application standards

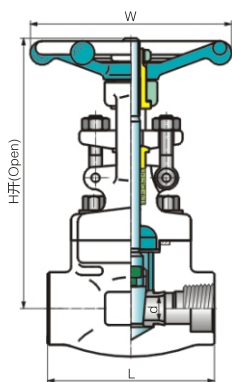
- 1、设计制造API 602、BS5352、ANSI B16.34;
- 2、连接端尺寸
  - 1)承插口尺寸按ANSI B16.11; JB/T1751
  - 2)螺纹端尺寸按ANSI B1.20.1; JB/T7306
  - 3)对焊端尺寸按ANSI B16.25; JB/T12224
  - 4)法兰端尺寸按ANSI B16.5; JB79
- 3、阀门检查和试验API 598; GB/T13927; JB/T9092
- 4、结构特征  
丝口和压力自密封
- 5、材料按 ANIS/ASTM的规定。
- 6、主体材料  
A105; LF2; F5; F11; F22; 304(L); 316(L);  
F347; F321; F91; Monel; 20合金等。
- 1、Design and manufacture conform to:  
API 602、BS5352、ANSI B16.34;
- 2、Connection ends conform to:
  - 1)Socket welded dimension conform to ANSI B16.11;JB/T1751
  - 2)Screw ends dimension conform to ANSI B1.20.1;JB/T7306
  - 3)Butt-welded conform to ANSI B16.25; JB/T12224
  - 4)Flanged ends conform to ANSI B16.5;JB79
- 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
- 4、Structure features:  
A threaded and pressure seal bonnet
- 5、Materials conform to ANIS/ASTM
- 6、Main materials:  
A105;LF2;F5;F11;F22;304(L);316(L);  
F347;F321;F91;Monel;20 Alloy.

### ◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

### ◆ 典型零件材料表/Main part materials list

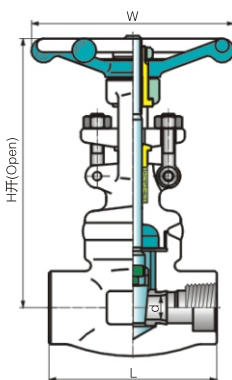
序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F91/410 HF
1	阀体 Body	A105	A105	LF2	F11	F304(L)	F316(L)	F91
2	阀座 Seat	410	410HF	304	410HF	304(L)	316(L)	410HF
3	闸板 Wedge	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F6aHF
4	阀杆 Stem	410	410	304	410	304(L)	316(L)	410
5	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F91
6	销 Pin	410	410	410	410	304	304	410
7	填料压套 Gland	410	410	304	410	304	316	410
8	活节螺栓 Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8
9	填料压盖 Gland flange	A105	A105	LF2	F11	F304	F304	F91
10	六角螺母 Hex nut	2H	2H	2H	2H	8(M)	8(M)	8
11	阀杆螺母 Stem nut	410	410	410	410	410	410	410
12	锁紧螺母 Locking nut	35	35	35	35	35	35	35
13	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
14	手轮 Handwheel	A197	A197	A197	A197	A197	A197	A190
15	润滑垫片 Lubricating gasket	410	410	410	410	410	410	410
16	填料 Packing	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite
17	紧定螺钉 Stop nut	35	35	35	35	35	35	35
18	密封圈垫片 Seal gasket	420	420	304	304	304(L)	316(L)	420
19	自密封圈 P.S.ring	304	304	304	304	304	316	316
20	自密封座 P.S.seat	420	420	304	304	304(L)	316(L)	F91
21	螺母垫块 Nut pad	410	410	410	410	410	410	410
22	拉紧螺母 Nut	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	不锈钢 Stainless steel	不锈钢 Stainless steel	碳钢 Carbon steel



螺栓连接阀盖，缩径和全径，明杆支架(OS & Y)  
末端连接为螺纹或承插焊或对焊，设计按 API 602  
Bolted bonnet, full port & reducing port outside screw and yoke(OS & Y)  
Threaded, butt-welded or socket welded ends; design to API 602

**CL800**

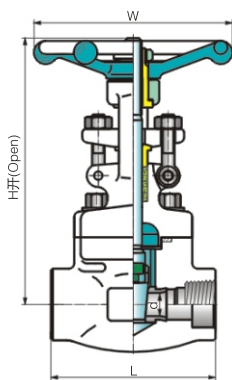
规格(NPS) Specification	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	79	79	92	111	120	120	140	178	180
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	220
中心高度(开)(mm) Height	H	161	161	163	196	223	251	290	333	370
流道孔径(mm) Flow port dimension	D	8	10.5	13.5	18	24	29	36.5	45	51
重量 Weight (Kg)		2.22	2.3	2.39	4.24	5.7	7.05	10.9	16.8	24



焊接连接阀盖，缩径和全径，明杆支架(OS & Y)  
末端连接为螺纹或承插焊或对焊，设计按 API 602  
Welded bonnet, full port & reducing port outside screw and yoke(OS & Y)  
Threaded, butt-welded or socket welded ends; design to API 602

**CL800**

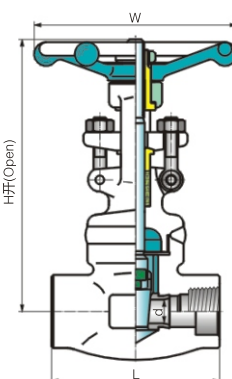
规格(NPS) Specification	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	79	79	92	111	120	120	140	178	180
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	220
中心高度(开)(mm) Height	H	161	161	163	196	223	251	290	333	370
流道孔径(mm) Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	51
重量 Weight (Kg)		1.9	1.9	2.1	3.2	5.2	6.9	10.4	15.8	22



螺栓连接阀盖，缩径和全径，明杆支架(OS&Y)  
末端连接为螺纹或承插焊，设计按 API 602  
Bolted bonnet, full port & reducing port outside screw and yoke(OS&Y)  
Threaded, butt-welded or socket welded ends; design to API 602

**CL900-CL1500**

规格(NPS) Specification	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	92	111	111	120	120	140	178	180	-
手轮直径(mm) Handwheel diameter	W	100	125	125	160	160	180	200	220	-
中心高度(开)(mm) Height	H	191	191	192	219	243	296	316	370	-
流道孔径(mm) Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	-
重量 Weight (Kg)		2.4	4.3	4.4	6	7.2	11.4	16	23	-

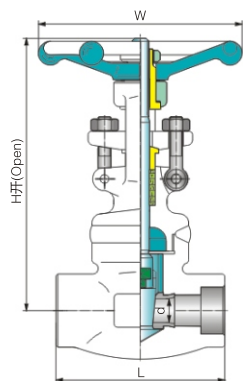


焊接连接阀盖，缩径和全径，明杆支架(OS&Y)  
末端连接为螺纹或承插焊，设计按 API 602  
Welded bonnet, full port & reducing port outside screw and yoke(OS&Y)  
Threaded, butt-welded or socket welded ends; design to API 602

**CL900-CL1500**

规格(NPS) Specification	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	92	111	111	120	120	140	178	180	-
手轮直径(mm) Handwheel diameter	W	100	125	125	160	160	160	200	220	-
中心高度(开)(mm) Height	H	171	207	207	240	258	330	355	370	-
流道孔径 Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	-
重量 Weight (Kg)		2.3	4	4	4.8	7.1	11	16	22.8	-

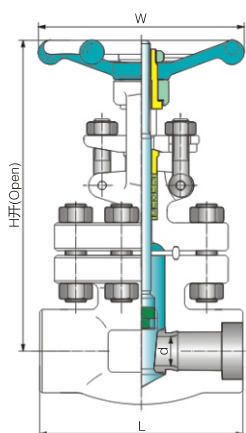
# 内螺纹与承插焊闸阀 FEMALE THREADED AND SOCKET WELDED GATE VALVES



焊接连接阀盖, 全径, 明杆支架 (OS & Y)  
末端连接为承插连接, 设计按 ASME B16.34  
Welded bonnet, full port outside screw and yoke (OS & Y)  
Socket welded ends, design conform to ASME B16.34

## CL2500

规格(NPS) Specification		1/4	3/8	1/2	3/4	1	1 1/4	2	
结构长度(mm) Face to face	L		111	120	120	120	140		
手轮直径(mm) Handwheel diameter	W		125	160	160	180	220		
中心高度(开)(mm) Height	H		215	218	220	238	281		
流道孔径(mm) Flow port dimension	d		14	14	14	19	25		
重量 Weight (Kg)			7	8.5	8.7	11.7	17		



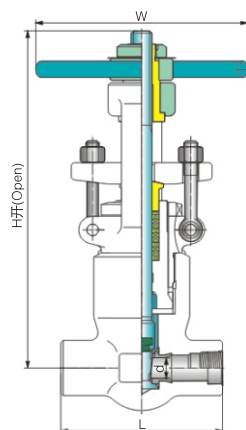
螺栓连接阀盖, 全径, 明杆支架 (OS & Y)  
末端连接为承插连接, 设计按 ASME B16.34  
Bolted bonnet, full port outside screw and yoke (OS & Y)  
Socket welded ends, design conform to ASME B16.34

## CL1500-CL2500

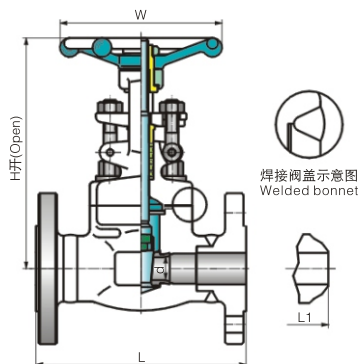
规格(NPS) Specification	F.P		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
结构长度(mm) Face to face	L	CL1500	110	150	150		210	235	
		CL2500	150	150	210		235	235	
手轮直径(mm) Handwheel diameter	W	CL1500	110	130	130		180	250	
		CL2500	130	130	250		300	300	
中心高度(开)(mm) Height	H	CL1500	277	300	390		400	435	
		CL2500	293	300	390		435	435	
流道孔径(mm) Flow port dimension	d	CL1500	14	17	22		35	37	
		CL2500	14	14	14		25	30	
重量 Weight (Kg)		CL1500	5.1	11	12.1		22	37	
		CL2500	11	11.3	22.4		38	38	

压力自紧式密封阀盖, 全径, 明杆支架(OS & Y)  
末端连接可按承插焊, 设计按 ASME B16.34  
Pressure seal bonnet, full port outside screw and yoke(OS & Y)  
Socket welded ends, design conform to ASME B16.34

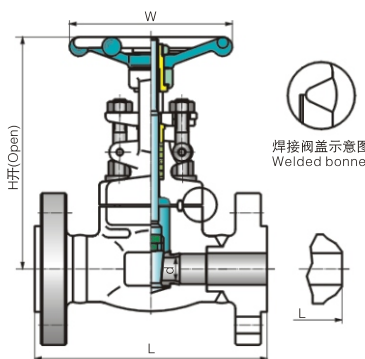
## CL1500-CL2500



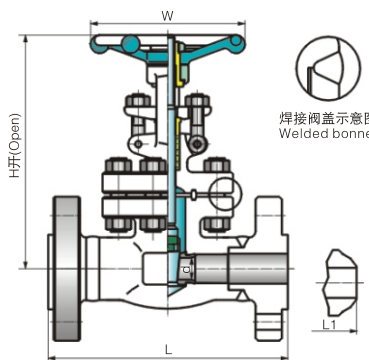
规格(NPS) Specification	F.P		3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L	CL900~1500	140	140	140	140	178	178	216
		CL2500	186	186	186	186	232	232	279
手轮直径(mm) Handwheel diameter	W	CL900~1500	200	200	200	200	280	280	300
		CL2500	200	200	200	200	280	280	300
中心高度(开)(mm) Height	H	CL900~1500	318	318	318	322	467	468	540
		CL2500	325	325	325	327	467	468	540
流道孔径(mm) Flow port dimension	d	CL900~1500	14	14	14	19	25	30	36.5
		CL2500	14	14	14	19	25	30	36.5
重量 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



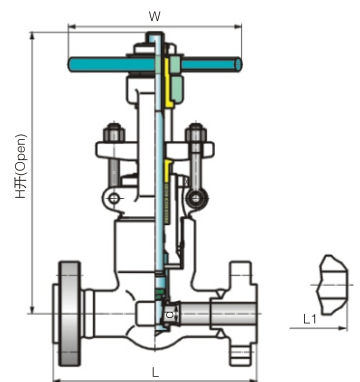
焊接阀盖示意图  
Welded bonnet



焊接阀盖示意图  
Welded bonnet



焊接阀盖示意图  
Welded bonnet



焊接阀盖示意图  
Welded bonnet

螺栓连接阀盖，缩径，明杆支架(OS & Y)。  
末端连接为法兰或对焊连接，设计按 API602; BS5352  
Bolted bonnet, reducing port outside screw and yoke(OS & Y)  
Flange- or butt-welded ends; design to API602; BS5352

## CL150-300-600

规格Specification(NPS)			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
结构长度(mm) Face to face	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
手轮直径(mm) Handwheel diameter		W	-	-	100	100	125	160	160	180	200
中心高度(开)(mm) Height	CL150	H	-	-	176	184	217	226	250	290	357
	CL300, CL600		-	-	161	163	196	226	250	290	357
流道孔径(mm) Flow port dimension		d	-	-	10	13.5	18	24	29	36.5	45
重量(Kg) Weight	CL150	RF	-	-	3.4	3.98	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	12.64	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

螺栓连接阀盖，全径，明杆支架(OS & Y)。  
末端连接为焊接法兰或对焊连接，设计按 BS5352  
Bolted bonnet, full port outside screw and yoke(OS & Y)  
Flange-welded or butt-welded ends; design to BS5352

## CL900-CL1500

规格Specification(NPS)			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L(RF), L1(BW)		-	-	216	229	254	279	305	368
	L(RTJ)		-	-	216	229	254	279	305	371
手轮直径(mm) Handwheel diameter		W	-	-	125	125	160	180	200	220
中心高度(开)(mm) Height		H	-	-	191	192	219	257	296	316
流道孔径(mm) Flow port dimension		d	-	-	13.5	18	24	29	36.5	45
重量 Weight(Kg)			-	-	7.2	11.5	15.6	16.2	22.6	28.2

螺栓连接阀盖(RJ)，全径，明杆支架(OS & Y)。  
末端连接为焊接法兰或对焊连接，设计按 ASME B16.34  
Bolted bonnet, full port outside screw and yoke(OS & Y)  
Flange-welded or butt-welded ends; design to ASME B16.34

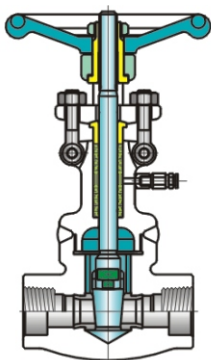
## CL2500

规格Specification(NPS)			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L(RF), L1(BW)		-	-	264	273	308	-	384	451
	L(RTJ)		-	-	264	273	308	-	387	454
手轮直径(mm) Handwheel diameter		W	-	-	125	160	160	-	200	240
中心高度(开)(mm) Height		H	-	-	207	240	258	-	355	370
流道孔径(mm) Flow port dimension		d	-	-	13.5	13.5	19	-	30	36.5
重量 Weight(Kg)			-	-	19.5	21.5	42	-	65	95

压力自紧式密封闸阀，全径，明杆支架(OS & Y)。  
末端连接为焊接法兰或对焊连接，设计按 ASME B16.34  
Pressure seal gate valves, full port outside screw and yoke(OS & Y)  
Flange-welded or butt-welded ends; design to ASME B16.34

## CL2500

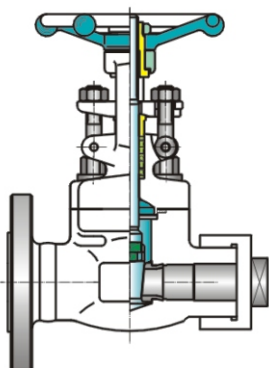
规格Specification(NPS)			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L(RF), L1(BW)		-	-	264	273	308	-	384	451
	L(RTJ)		-	-	264	273	308	-	387	454
手轮直径(mm) Handwheel diameter		W	-	-	200	200	200	-	280	300
中心高度(开)(mm) Height		H	-	-	325	325	327	-	478	540
流道孔径(mm) Flow port dimension		d	-	-	13.5	13.5	19	-	30	36.5
重量 Weight(Kg)			-	-	14.6	16.8	17.6	-	25	31.9



- ※ 焊接阀盖
- ※ 明杆支架
- ※ 双填料
- ※ 隔环
- ※ 注脂阀
- ※ 刚性闸板
- ※ Welded bonnet
- ※ OS & Y
- ※ Packing
- ※ Distance ring
- ※ Grease valve
- ※ Solid wedge

◆ 真空闸阀/Vacuum gate valves

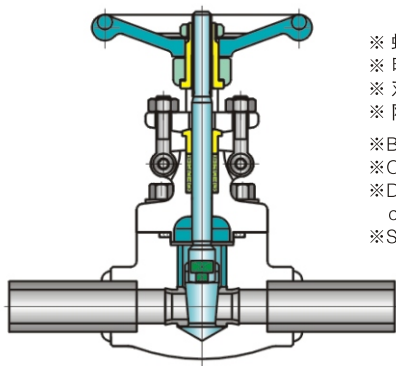
CLASS 800 API 602-BS 5352 缩和全径 Reduced port & full port	温压等级 Temperature- pressure rate	材料 Materials		
		阀体/阀盖 Body/bonnet	内件 Trim	螺栓 Bolt
	1975 psi @ 100° F	碳钢 Carbon steel	13Cr	B7



- ※ 螺栓阀盖
- ※ 明杆支架
- ※ 管帽连接
- ※ 刚性闸板
- ※ Bolted bonnet
- ※ OS & Y
- ※ Cap fitting connection
- ※ Solid wedge

◆ 放空导淋阀/For venting and/or releasing media

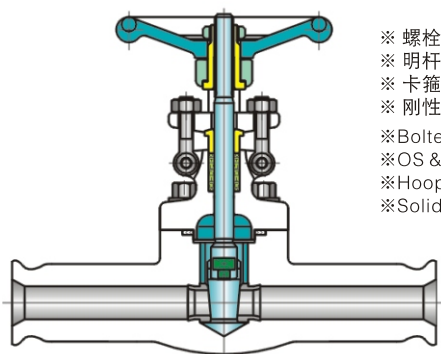
CLASS 800 API 602-BS 5352 缩和全径 Reduced port & full port	温压等级 Temperature- pressure rate	材料 Materials		
		阀体/阀盖 Body/bonnet	内件 Trim	螺栓 Bolt
	1975 psi @ 100° F	碳钢 Carbon steel	13Cr	B7



- ※ 螺栓阀盖
- ※ 明杆支架
- ※ 双头管接
- ※ 刚性闸板
- ※ Bolted bonnet
- ※ OS & Y
- ※ Double end pipe connection
- ※ Solid wedge

◆ 管接阀门/Coupling pipe valves

CLASS 800 API 602-BS 5352 缩和全径 Reduced port & full port	温压等级 Temperature- pressure rate	材料 Materials		
		阀体/阀盖 Body/bonnet	内件 Trim	螺栓 Bolt
	1975 psi @ 100° F	碳钢 Carbon steel	13Cr	B7



- ※ 螺栓阀盖
- ※ 明杆支架
- ※ 卡箍连接
- ※ 刚性闸板
- ※ Bolted bonnet
- ※ OS & Y
- ※ Hoop connection
- ※ Solid wedge

◆ 卡箍闸阀/Hoop gate valves

CLASS 800 API 602-BS 5352 缩和全径 Reduced port & full port	温压等级 Temperature- pressure rate	材料 Materials		
		阀体/阀盖 Body/bonnet	内件 Trim	螺栓 Bolt
	1975 psi @ 100° F	碳钢 Carbon steel	13Cr	B7



# Forged Steel Globe Valve Series

## 锻钢截止阀系列 >>>



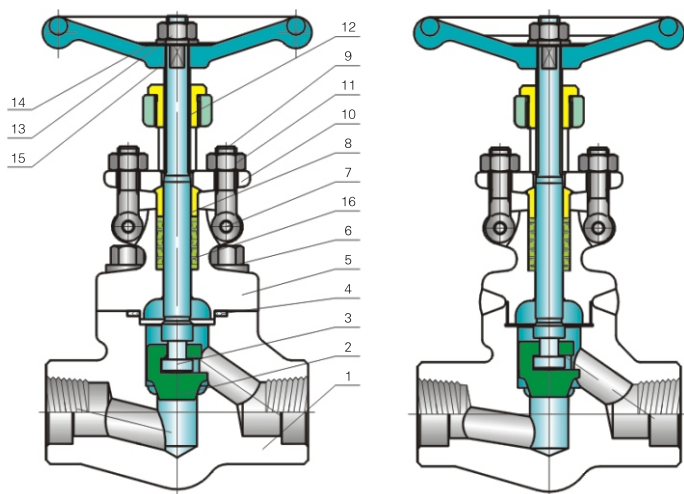
N V F valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304+flexible graphite. Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available, The third design is the pressure seal bonnet, with a threaded and pressure seal bonnet joint.

### ◆ 采用标准/Standards

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>---全径或缩径;</li> <li>---明杆支架式(OS &amp; Y)</li> <li>---自定心压板压套式;</li> <li>---螺栓连接、缠绕垫片密封式阀盖, 螺纹连接、全焊密封式阀盖以及螺纹连接内压自紧式阀盖;</li> <li>---整体式上密封座;</li> <li>---承插端符合ASME B16.11;</li> <li>---螺纹连接端(NPT)符合ANSI/ASME B1.20.1;</li> <li>---阀瓣可变换为节流型、针型、球型和止回型。</li> </ul> | <ul style="list-style-type: none"> <li>---Full port or reduced port;</li> <li>---Outside screw and yoke (OS&amp;Y);</li> <li>---Two piece self-aligning packing gland;</li> <li>---Bolted bonnet with spiral-wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet;</li> <li>---Integral backseat;</li> <li>---Socket weld ends to ASME B16.11;</li> <li>---Screwed ends(NPT) to ANSI/ASME B1.20.1;</li> <li>---Disc can change for throttle type、needle type、ball type and check type.</li> </ul> |
|---|---|

# 内螺纹与承插焊截止阀

## FEMALE THREADED AND SOCKET WELDED GLOBE VALVES



### ◆ 应用规范/Application standards

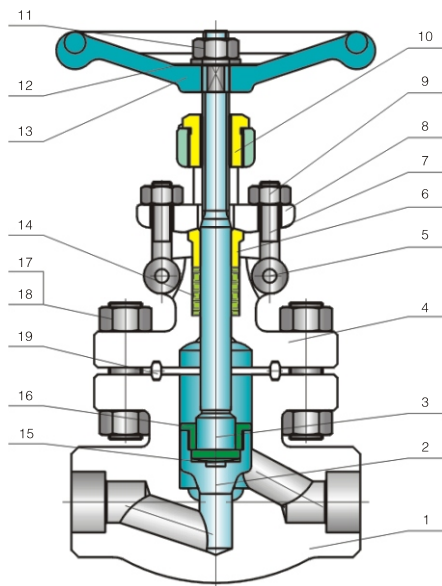
- 1、设计制造BS5352、MSS SP-118;
  - 2、连接端尺寸
    - 1)承插口尺寸按ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按ANSI B16.5; JB79
  - 3、阀门检查和试验API 598; GB/T13927; JB/T9092
  - 4、结构特征  
螺栓连接阀盖(B.B)和明杆支架(OS & Y)  
或焊接阀盖(W.B)和明杆支架(OS & Y)
  - 5、材料按 ANIS/ASTM的规定。
  - 6、主体材料  
A105; LF2; F5; F11; F22; 304(L); 316(L);  
F347; F321; F51; Monel; 20合金等。
- 1、Design and manufacture conform to:BS5352、MSS SP-118
  - 2、Connection ends conform to:
    - 1)Socket welded dimension conform to ANSI B16.11;JB/T1751
    - 2)Screw ends dimension conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded conform to ANSI B16.25; JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
  - 4、Structure features:  
Bolted bonnet, outside screw and yoke  
Welded bonnet, outside screw and yoke
  - 5、Materials conform to ANIS/ASTM
  - 6、Main materials:  
A105 ;LF2;F5;F11;F22;304(L);316(L);  
F347;F321;F51;Monel;20 Alloy.

### ◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

### ◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
2	阀瓣 Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
3	阀杆 Stem	410	410	304	410	304(L)	316(L)	F51
4	垫片 Gasket	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	316+柔性石墨 316+Flexible graphite	316+柔性石墨 316+Flexible graphite
5	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
6	螺栓 Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
7	销轴 Pin	410	410	410	410	304	304	304
8	填料压套 Gland	410	410	304	410	304	316	F51
9	活节螺栓 Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
10	填料压盖 Gland flange	A105	A105	LF2	F11	F304	F304	F304
11	六角螺母 Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
12	阀杆螺母 Stem nut	410	410	410	410	410	410	410
13	锁紧螺母 Locking nut	35	35	35	35	35	35	35
14	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
15	手轮 Handwheel	A197	A197	A197	A197	A197	A197	A197
16	填料 Packing	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite



### ◆ 应用规范/Application standards

- 1、设计制造BS5352、MSS SP-118;
  - 2、连接端尺寸
    - 1)承插口尺寸按ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按ANSI B16.5; JB79
  - 3、阀门检查和试验API 598; GB/T13927; JB/T9092
  - 4、结构特征
    - 螺栓连接阀盖(B.B)和明杆支架(OS & Y)
    - 或焊接阀盖(W.B)和明杆支架(OS & Y)
  - 5、材料按 ANIS/ASTM的规定。
  - 6、主体材料
    - A105; LF2; F5; F11; F22; 304(L); 316(L);
    - F347; F321; F51; Monel; 20合金等。
- 1、Design and manufacture conform to:BS5352、MSS SP-118
  - 2、Connection ends conform to:
    - 1)Socket welded dimension conform to ANSI B16.11;JB/T1751
    - 2)Screw ends dimension conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded conform to ANSI B16.25; JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
  - 4、Structure features:
    - Bolted bonnet, outside screw and yoke
    - Welded bonnet, outside screw and yoke
  - 5、Materials conform to ANIS/ASTM
  - 6、Main materials:
    - A105;LF2;F5;F11;F22;304(L);316(L);
    - F347;F321;F51;Monel;20 Alloy.

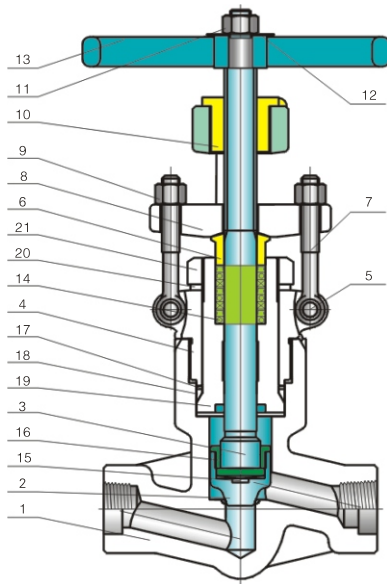
### ◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

### ◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
2	阀瓣 Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
3	阀杆 Stem	410	410	304	410	304(L)	316(L)	F51
4	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
5	销 Pin	410	410	410	410	304	304	304
6	填料压套 Gland	410	410	304	410	304	316	F51
7	活节螺栓 Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	填料压盖 Gland flange	A105	A105	LF2	F11	F304	F304	F304
9	六角螺母 Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
10	阀杆螺母 Stem nut	410	410	410	410	410	410	410
11	锁紧螺母 Locking nut	35	35	35	35	35	35	35
12	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
13	手轮 Handwheel	A197	A197	A197	A197	A197	A197	A197
14	填料 Packing	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite
15	阀杆垫块 Stem pad	420	420	420	420	316SH	316SH	316SH
16	阀瓣螺母 Disc nut	410	410	410	410	410	410	410
17	双头螺栓 Stud	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
18	螺母 Nut	2H	2H	8	8	8(M)	8(M)	8(M)
19	金属环 Metal ring	304	304	304	304	304(L)	316(L)	F51

# 自密封截止阀 PRESSURE SEALING GLOBE VALVES



## ◆ 应用规范/Application standards

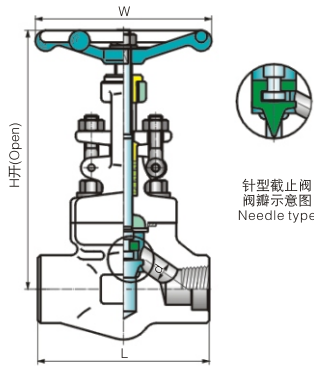
- 1、设计制造ASME B16.34;
  - 2、连接端尺寸
    - 1)承插口尺寸按ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按 ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按ANSI B16.5; JB79
  - 3、阀门检查和试验: API 598; GB/T13927; JB/T9092
  - 4、结构特征  
螺栓连接阀盖自紧式密封  
Y型或T型结构
  - 5、材料按ANSI/ASTM的规定。
  - 6、主体材料  
A105; LF2; F5; F11; F22; 304(L); 316(L); F347;  
F321; F91; Monel; 20合金等。
- 1、Design and manufacture conform to ASME B16.34;
  - 2、Connection ends conform to:
    - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
    - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
  - 4、Structure features:  
A threaded and pressure seal bonnet;  
Y type and T type
  - 5、Materials conform to ANSI/ASTM
  - 6、Main materials:  
A105;LF2;F5;F11;F22;304(L);316(L);F347;  
F321;F91;Monel;20 Alloy.

## ◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

## ◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F91/410HF
1	阀体 Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F91+HF
2	阀瓣 Disc	410	410	304	410	304(L)	316(L)	410+HF
3	阀杆 Stem	410	410	304	410	304(L)	316(L)	410
4	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F91
5	销轴 Pin	410	410	410	410	304	304	410
6	填料压套 Gland	410	410	304	410	304	316	410
7	活节螺栓 Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8
8	填料压盖 Gland flange	A105	A105	LF2	F11	F304	F304	F91
9	六角螺母 Hex nut	2H	2H	2H	2H	8(M)	8(M)	8
10	阀杆螺母 Stem nut	410	410	410	410	410	410	410
11	锁紧螺母 Locking nut	35	35	35	35	35	35	35
12	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
13	手轮 Handwheel	A197	A197	A197	A197	A197	A197	A197
14	填料 Packing	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite
15	阀杆垫块 Stem pad	420	420	420	420	316SH	316SH	420
16	阀瓣螺母 Disc nut	410	410	410	410	304(L)	316(L)	410
17	密封圈垫片 Seal ring gasket	420	420	304	304	304(L)	316(L)	316(L)
18	自密封圈 P.S.ring	304	304	304	304	304	316	304
19	自密封座 P.S.seat	420	420	304	304	304(L)	316(L)	F91
20	螺母垫片 Nut pad	410	410	410	410	410	410	410
21	拉紧螺母 Nut	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	不锈钢 Stainless steel	不锈钢 Stainless steel	碳钢 Carbon steel

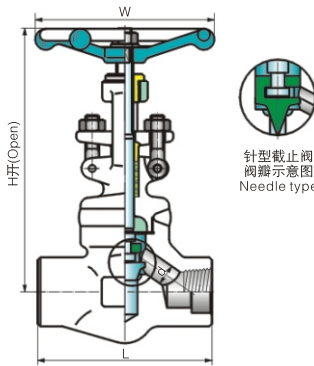


针型截止阀  
阀瓣示意图  
Needle type

螺栓连接阀盖，缩径和全径，明杆支架 (OS & Y)  
末端连接可按螺纹或承插焊，设计按BS5352  
Bolted bonnet, full port & reducing port outside screw and yoke(OS & Y)  
Threaded, butt-welded or socket welded ends; design to BS5352

## CL800

规格(NPS) Specification	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
结构长度(mm) Face to face	L	79	79	92	111	120	152	172	200	
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	
中心高度(开)(mm) Height	H	164	164	164	203	224	260	300	355	
流道孔径(mm) Flow port dimension	d	7	9	13	17.5	23	30	35	46	
重量 Weight (Kg)		1.9	2.28	2.37	4.3	5.75	7.8	12.5	17.5	

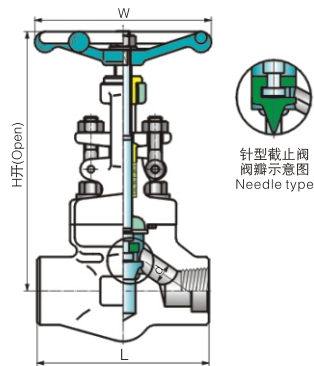


针型截止阀  
阀瓣示意图  
Needle type

焊接连接阀盖，缩径和全径，明杆支架 (OS & Y)  
末端连接连接为螺纹或承插焊或对焊，设计按BS5352  
Welded bonnet, full port & reducing port outside screw and yoke(OS & Y)  
Threaded, butt-welded or socket welded ends; design to BS5352

## CL800

规格(NPS) Specification	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
结构长度(mm) Face to face	L	79	79	92	111	120	152	172	200	
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	
中心高度(开)(mm) Height	H	164	164	164	203	224	260	300	355	
流道孔径(mm) Flow port dimension	d	7	9	13	17.5	23	30	35	46	
重量 Weight (Kg)		1.7	1.7	1.9	3.3	5.2	6.8	10.6	13.8	

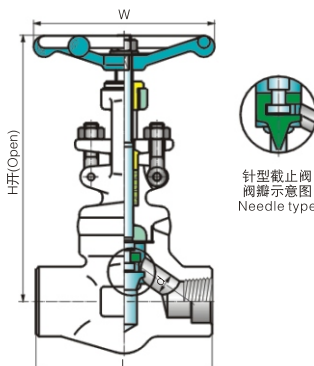


针型截止阀  
阀瓣示意图  
Needle type

螺栓连接阀盖，缩径和全径，明杆支架 (OS & Y)  
末端连接可按螺纹或承插焊，设计按BS5352  
Bolted bonnet, full port & reducing port outside screw and yoke(OS & Y)  
Threaded, butt-welded or socket welded ends; design to BS5352

## CL900-CL1500

规格(NPS) Specification	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
结构长度(mm) Face to face	L	92	111	111	120	152	172	200	220	
手轮直径(mm) Handwheel diameter	W	100	125	125	160	160	180	200	240	-
中心高度(开)(mm) Height	H	171	207	207	240	258	330	355	370	-
流道孔径(mm) Flow port dimension	d	7	12	15	20	28	32	40	45	-
重量 Weight (Kg)		2.3	3.6	3.7	6.8	7.6	11.6	15	21.9	-



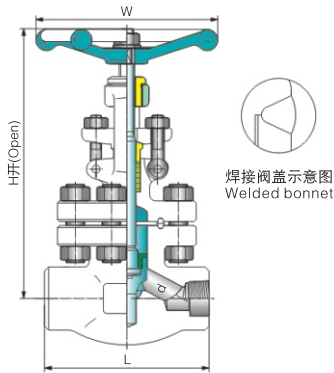
针型截止阀  
阀瓣示意图  
Needle type

焊接连接阀盖，缩径和全径，明杆支架 (OS & Y)  
末端连接可按螺纹或承插焊，设计按BS5352  
Welded bonnet, full port & reducing port outside screw and yoke(OS & Y)  
Threaded, butt-welded or socket welded ends; design to BS5352

## CL900-CL1500

规格(NPS) Specification	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
结构长度(mm) Face to face	L	92	111	111	120	152	172	200	220	-
手轮直径(mm) Handwheel diameter	W	100	125	125	160	160	180	200	240	-
中心高度(开)(mm) Height	H	171	207	207	240	258	330	355	370	-
流道孔径(mm) Flow port dimension	d		12	15	20	28	32	40	45	-
重量 Weight (Kg)		2.2	3.3	3.4	5.6	6.0	10.3	14.2	18.0	-

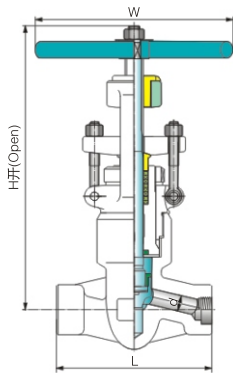
# 内螺纹与承插焊截止阀 FEMALE THREADED AND SOCKET WELDED GLOBE VALVES



## CL900-CL1500

螺栓连接阀盖(RJ),全径,明杆支架(OS & Y)  
末端连接为螺纹或承插焊,设计按 BS5352  
Bolted bonnet, full port outside screw and yoke (OS & Y)  
Threaded, butt-welded or socket welded ends; design to BS5352

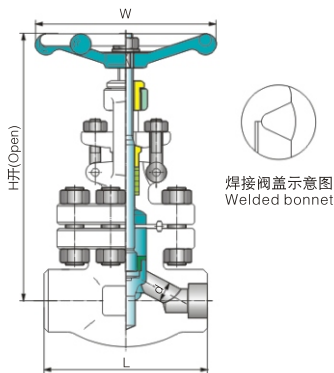
规格(NPS) Specification	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
结构长度(mm) Face to face	L	110	110	150	150		210	235
手轮直径(mm) Handwheel diameter	W	110	110	130	180		210	250
中心高度(开)(mm) Height	H	227	227	300	307		400	448
流道孔径(mm) Flow port dimension	d	9	12	15	20		32	40
重量 Weight (Kg)		5	5	10	11.5		22	37



## CL900-CL1500

压力自紧式连接阀盖,全径,明杆支架(OS & Y)  
末端连接为螺纹或承插焊,设计按BS5352  
Pressure seal bonnet, full port outside screw and yoke(OS & Y)  
Threaded, butt-welded or socket welded ends; design to BS5352

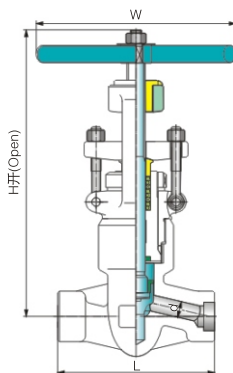
规格(NPS) Specification	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
结构长度(mm) Face to face	L	140	140	140	178	178	216	
手轮直径(mm) Handwheel diameter	W	200	200	200	280	280	300	
中心高度(开)(mm) Height	H	320	320	320	440	440	490	
流道孔径(mm) Flow port dimension	d	12	15	20	28	32	40	
重量 Weight (Kg)		10.8	10.5	11.5	19.6	21.1	55.4	



## CL2500

螺栓连接阀盖(RJ),全径,明杆支架(OS & Y)  
末端连接为承插焊,设计按 ASME B16.34  
Bolted bonnet, full port outside screw and yoke (OS & Y)  
Socket welded ends, design conform to ASME B16.34

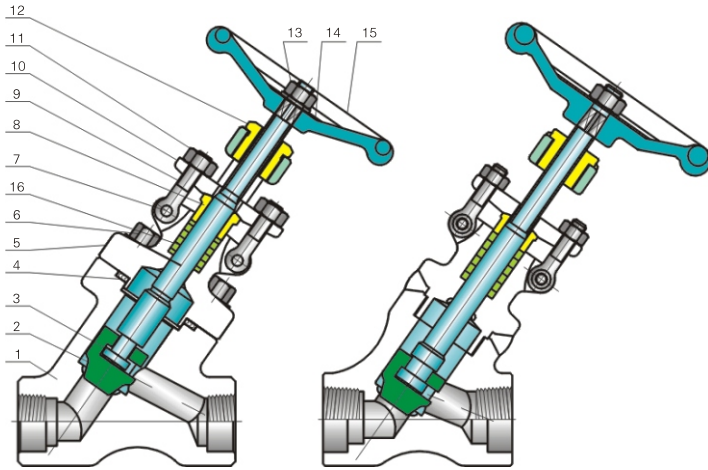
规格(NPS) Specification	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
结构长度(mm) Face to face	L	150	150	210		235	235	
手轮直径(mm) Handwheel diameter	W	130	130	250		300	300	
中心高度(开)(mm) Height	H	293	300	390		435	435	
流道孔径(mm) Flow port dimension	d	11	14	19		28	35	
重量 Weight (Kg)		10	10.3	22.4		38	38	



## CL2500

压力自紧式连接阀盖,全径,明杆支架(OS & Y)  
末端连接为承插焊,设计按 ASME B16.34  
Pressure seal bonnet, full port outside screw and yoke(OS & Y)  
Socket welded ends, design conform to ASME B16.34

规格(NPS) Specification	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
结构长度(mm) Face to face	L	186	186	186	232	232	279	
手轮直径(mm) Handwheel diameter	W	200	200	200	280	280	300	
中心高度(开)(mm) Height	H	375	378	380	490	490	540	
流道孔径(mm) Flow port dimension	d	11	14	19	25	28	35	
重量 Weight (Kg)		10.8	11.6	12.3	26.0	28.4	60	



### ◆ 应用规范/Application standards

- 1、设计制造BS5352、MSS SP-118;
  - 2、连接端尺寸
    - 1)承插口尺寸按ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按ANSI B16.5; JB79
  - 3、阀门检查和试验API 598; GB/T13927; JB/T9092
  - 4、结构特征
    - 螺栓阀盖(B.B)和明杆支架(OS & Y)
    - 或焊接阀盖(W.B)和明杆支架(OS & Y)
  - 5、材料按 ANIS/ASTM的规定。
  - 6、主体材料
    - A105; LF2; F5; F11; F22; 304(L); 316(L);
    - F347; F321; F51; Monel; 20合金; 哈氏合金等。
- 1、Design and manufacture conform to:BS5352、MSS SP-118
  - 2、Connection ends conform to:
    - 1)Socket welded dimension conform to ANSI B16.11;JB/T1751
    - 2)Screw ends dimension conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded conform to ANSI B16.25; JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
  - 4、Structure features:
    - Bolted bonnet, outside screw and yoke
    - Welded bonnet, outside screw and yoke
  - 5、Materials conform to ANIS/ASTM
  - 6、Main materials:
    - A105;LF2;F5;F11;F22;304(L);316(L);
    - F347;F321;F51;Monel;20 Alloy;Hastelloy.

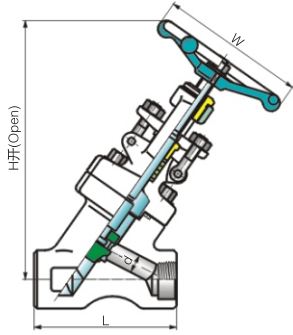
### ◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

### ◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
2	阀瓣 Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
3	阀杆 Stem	410	410	304	410	304(L)	316(L)	F51
4	垫片 Gasket	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite
5	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
6	螺栓 Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
7	销轴 Pin	410	410	410	410	304	304	304
8	填料压套 Gland	410	410	304	410	304	316	F51
9	活节压盖 Eyelet gland	B7	B7	L7	B16	B8(M)	B8(M)	B8M
10	填料压盖 Gland flange	A105	A105	LF2	F11	F304	F304	F304
11	六角螺母 Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
12	阀杆螺母 Stem nut	410	410	410	410	410	410	410
13	锁紧螺母 Locking nut	35	35	35	35	35	35	35
14	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
15	手轮 Handwheel	A197	A197	A197	A197	A197	A197	A197
16	填料 Packing	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite

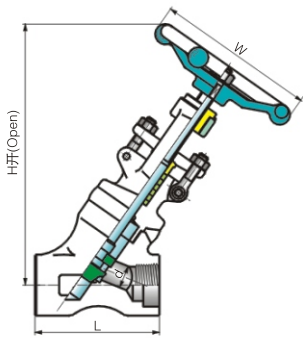
# Y 型截止阀 Y TYPE GLOBE VALVES



## CL800

螺栓连接阀盖，缩径和全径，明杆支架(OS & Y)  
 末端连接为螺纹或承插焊，设计按BS5352  
 Bolted bonnet, full port & reducing port outside screw and yoke(OS & Y)  
 Threaded, butt-welded or socket welded ends; design to BS5352

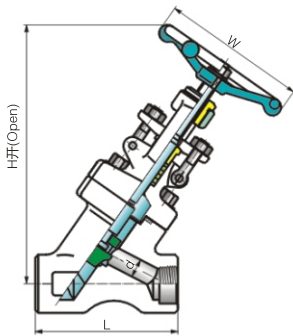
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	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	
结构长度(mm) Face to face	L	98	98	98	111	140	140	155	170	
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	
中心高度(开)(mm) Height	H	180	180	180	188	280	280	295	350	
流道孔径(mm) Flow port dimension	d	7	9	13	17.5	23	30	35	46	
重量 Weight (Kg)		2.6	2.6	3.8	4.6	9.3	9.3	14	19.6	



## CL800

焊接连接阀盖，缩径和全径，明杆支架(OS & Y)  
 末端连接为螺纹或承插焊，设计按BS5352  
 Welded bonnet, full port & reducing port outside screw and yoke(OS & Y)  
 Threaded, butt-welded or socket welded ends; design to BS5352

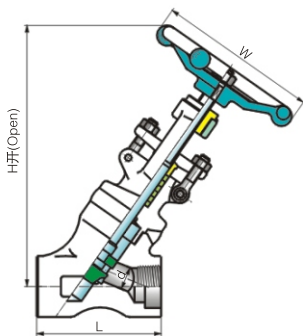
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	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	
结构长度(mm) Face to face	L	79	79	92	100	140	140	155	170	
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	
中心高度(开)(mm) Height	H	198	198	198	207	280	280	295	350	
流道孔径(mm) Flow port dimension	d	7	9	13	17.5	23	30	35	46	
重量 Weight (Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	16	



## CL900-CL1500

螺栓连接阀盖，全径，明杆支架(OS & Y)  
 末端连接为螺纹或承插焊，设计按BS5352  
 Bolted bonnet, full port & outside screw and yoke (OS & Y)  
 Threaded, butt-welded or socket welded ends; design to BS5352

规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	98	111	111	140	140	155	170	
手轮直径(mm) Handwheel diameter	W	100	125	125	160	160	180	200	
中心高度(开)(mm) Height	H	175	175	215	215	254	305	305	
流道孔径(mm) Flow port dimension	d	9	12	15	20	28	32	40	
重量 Weight (Kg)		2.6	4.6	4.6	9.3	9.3	14	19.6	

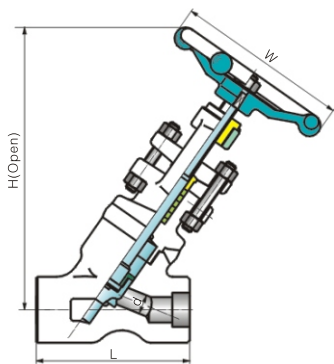


## CL900-CL1500

焊接连接阀盖，全径，明杆支架(OS & Y)  
 末端连接为螺纹或承插焊，设计按BS5352  
 Welded bonnet, full port & outside screw and yoke (OS & Y)  
 Threaded, butt-welded or socket welded ends; design to BS5352

规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	92	100	100	140	140	155	170	
手轮直径(mm) Handwheel diameter	W	100	125	125	160	160	180	200	
中心高度(开)(mm) Height	H	175	207	207	280	280	295	350	
流道孔径(mm) Flow port dimension	d	9	12	15	20	28	32	40	
重量 Weight (Kg)		1.8	3.5	3.5	8.0	8.0	12	16	

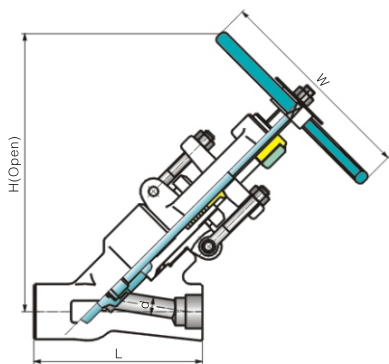




焊接连接阀盖, 全径, 明杆支架(OS & Y)  
末端连接为焊接承插连接, 设计按 ASME16.34  
Welded bonnet, full port outside screw and yoke(OS & Y)  
Socket welded, design conform to ASME16.34

**CL2500**

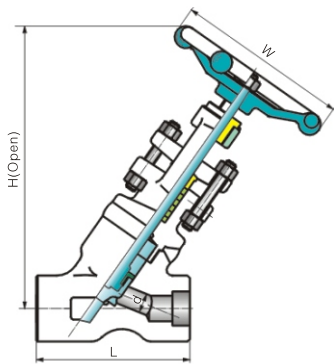
规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L	186	186	186	186	232	232	310
手轮直径(mm) Handwheel diameter	W	200	200	200	200	280	280	300
中心高度(开)(mm) Height	H	329	329	329	329	350	350	383
流道孔径(mm) Flow port dimension	d	9	11	14	19	25	28	35
重量 Weight (Kg)		10.8	11.6	12.3	12.3	28.0	26.4	43.8



压力自紧式密封阀盖, 全径, 明杆支架(OS & Y)  
末端连接为焊接承插连接, 设计按 ASME16.34  
Pressure seal bonnet, full port outside screw and yoke(OS & Y)  
Socket welded, design conform to ASME16.34

**CL2500**

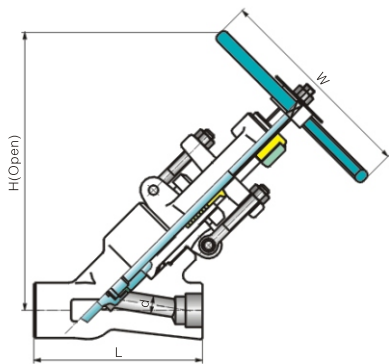
规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L	186	186	186	186	232	232	310
手轮直径(mm) Handwheel diameter	W	200	200	200	200	280	280	300
中心高度(开)(mm) Height	H	333	333	333	333	406	406	524
流道孔径(mm) Flow port dimension	d	9	11	14	19	25	28	35
重量 Weight (Kg)		10.8	11.6	12.3	12.3	28.0	26.4	43.8



焊接自紧式密封阀盖, 全径, 明杆支架(OS & Y)  
末端连接为焊接承插连接, 设计按 ASME16.34  
Welded seal bonnet, full port outside screw and yoke(OS & Y)  
Socket welded, design conform to ASME16.34

**CL4500**

规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L	155	155	155	155		225	225
手轮直径(mm) Handwheel diameter	W	220	220	220	220		300	320
中心高度(开)(mm) Height	H	350	350	350	380		453	453
流道孔径(mm) Flow port dimension	d	9	11	11	15		26	28
重量 Weight (Kg)		9.4	9.6	9.6	10.5		34	36

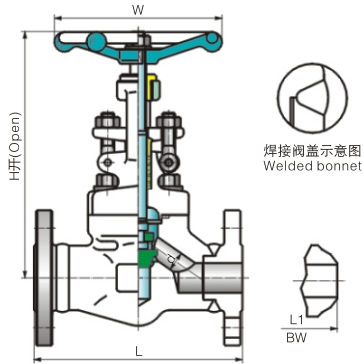


压力自紧式密封阀盖, 全径, 明杆支架(OS & Y)  
末端连接为焊接承插连接, 设计按 ASME16.34  
Pressure seal bonnet, full port outside screw and yoke(OS & Y)  
Socket welded, design conform to ASME16.34

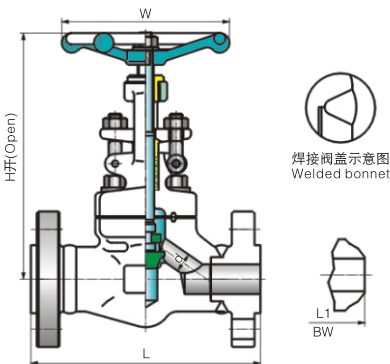
**CL4500**

规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L	200	200	200	200	250	250	330
手轮直径(mm) Handwheel diameter	W	280	280	280	280	300	300	320
中心高度(开)(mm) Height	H	400	400	400	400	460	460	540
流道孔径(mm) Flow port dimension	d	9	11	11	15	20	26	28
重量 Weight (Kg)		30	30	30	30	30	36	58

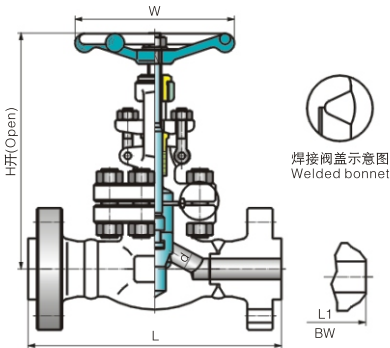
# 法兰与对焊截止阀 FLANGE AND BUTT-WELDED GLOBE VALVES



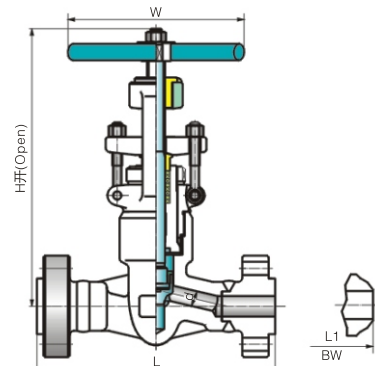
焊接阀盖示意图  
Welded bonnet



焊接阀盖示意图  
Welded bonnet



焊接阀盖示意图  
Welded bonnet



L1  
BW

螺栓连接阀盖, 缩径, 明杆支架(OS & Y)  
末端连接为连接法兰或对焊连接, 设计按 BS5352  
Bolted bonnet, reducing port outside screw and yoke(OS & Y)  
Flange or butt-welding design to BS5352

## CL150-300-600

规格(NPS) Specification		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	CL150	L(RF) L1(BW)	-	-	108	117	127	140	165	203
	CL300		-	-	152	178	203	216	229	267
	CL600		-	-	165	190	216	229	241	292
手轮直径(mm) Handwheel diameter		W	-	-	100	100	125	160	160	180
中心高度(开)(mm) Height	CL150/CL300	H	-	-	180	184	217	224	260	300
	CL600		-	-	164	164	203	224	260	300
流道孔径(mm) Flow port dimension		d	-	-	9	13	17.5	23	30	35
重量(Kg) Weight	CL150	R F	-	-	3.45	4.00	6.19	9.6	10.5	17
		BW	-	-	2.3	3.6	7.8	8.2	12.0	15.0
	CL300	R F	-	-	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	R F	-	-	5.6	7.8	12.5	17	23.5	38.8
		BW	-	-	3.4	4.7	9.2	10.5	13.3	18.9

螺栓连接阀盖(RJ), 全径, 明杆支架(OS & Y)  
末端连接为连接法兰或对焊连接, 设计按 BS5352  
Bolted bonnet, full port outside screw and yoke(OS & Y)  
Flange or butt-welding design to BS5352

## CL900-CL1500

规格(NPS) Specification	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L(RF), L1(BW)	-	-	216	229	254	279	305	368
	L(RTJ)	-	-	216	229	254	279	305	371
手轮直径(mm) Handwheel diameter	W	-	-	125	125	160	160	180	200
中心高度(开)(mm) Height	H	-	-	207	207	230	160	300	355
流道孔径(mm) Flow port dimension	d	-	-	12	15	20	28	32	40
重量 Weight (Kg)		-	-	11	13.2	17.4	19	24.5	31

螺栓连接阀盖(RJ), 全径, 明杆支架(OS & Y)  
末端连接为焊接法兰或对焊连接, 设计按 ASME B16.34  
Bolted bonnet, full port outside screw and yoke(OS & Y)  
Flange or butt-welded design conform to ASME B16.34

## CL2500

规格(NPS) Specification	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L(RF), L1(BW)	-	-	264	273	308	-	384	451
	L(RTJ)	-	-	264	273	308	-	387	454
手轮直径(mm) Handwheel diameter	W	-	-	125	160	200	-	250	240
中心高度(开)(mm) Height	H	-	-	207	240	258	-	355	300
流道孔径(mm) Flow port dimension	d	-	-	11	14	19	-	28	35
重量 Weight (Kg)		-	-	19.5	21.5	42	-	65	95

压力自紧式密封阀盖, 全径, 明杆支架(OS & Y)  
末端连接为焊接法兰或对焊连接, 设计按 ASME B16.34  
Pressure seal bonnet, full port outside screw and yoke(OS & Y)  
Flange or butt-welded design conform to ASME B16.34

## CL2500

规格(NPS) Specification	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L(RF), L1(BW)	-	-	264	273	308	349	384	451
	L(RTJ)	-	-	264	273	308	349	387	454
手轮直径(mm) Handwheel diameter	W	-	-	200	200	280	280	280	300
中心高度(开)(mm) Height	H	-	-	320	320	320	440	440	490
流道孔径(mm) Flow port dimension	d	-	-	11	14	19	25	28	35
重量 Weight (Kg)		-	-	21.5	24.7	30.4	48.1	58.1	130

# Forged Steel Check Valve Series

## 锻钢止回阀系列 >>>



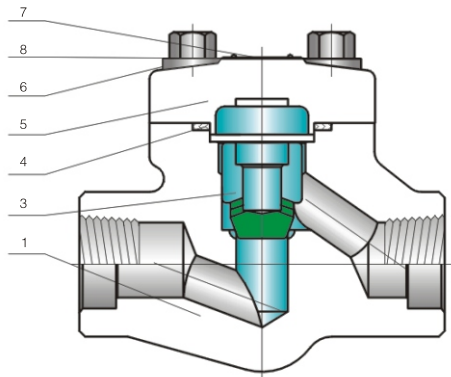
N V F valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male–female joint, spiral wound gasket, made in F304+flexible graphite. Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available. The third design is the pressure seal bonnet, with a threaded and pressure seal bonnet joint. The check valves are also available in three different design configurations. These are piston check, ball check, or swing check designs.

### ◆ 采用标准/Standards

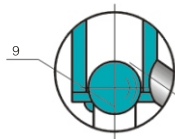
- 全径或缩径;
- 升降式止回阀;
- 球式止回阀;
- 旋启式止回阀;
- 按需求内置弹簧;
- 螺栓连接、缠绕垫片密封式阀盖, 螺纹连接、全焊密封式阀盖以及螺纹连接压力自紧式阀盖;
- 承插端符合ASME B16.11;
- 螺纹连接端 (NPT) 符合ANSI/ASME B1.20.1;
- 阀瓣可变换软密封、阀瓣、球型阀瓣。

- Full port or reduced port;
- Lift type check valves;
- Ball type check valves;
- Swing type check valves;
- According to requirement to equip inside spring;
- Bolted bonnet with spiral–wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet;
- Socket weld ends to ASME B16.11;
- Screwed ends (NPT) to ANSI/ASME B1.20.1;
- Disc can change for soft seal disc and ball disc.

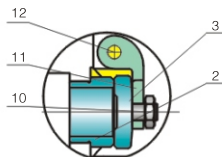
# 内螺纹与承插焊止回阀 FEMALE THREADED AND SOCKET WELDED CHECK VALVES



如要加载弹簧需在定货单中注明  
Please mark in you offer if you need load spring



球型止回阀示意图  
Ball type



旋启式止回阀示意图  
Swing type

## ◆ 应用规范/Application standards

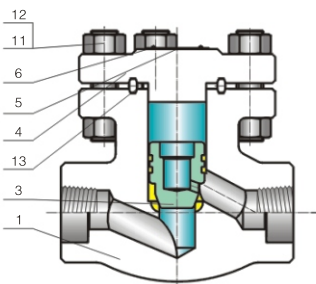
- 1、设计制造 BS5352 MSS SP-118;
  - 2、连接尺寸
    - 1)承插口尺寸按 ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按 ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按 ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按ANSI B16.5; JB79
  - 3、阀门检查和试验API 598; GB/T13927; JB/T9092
  - 4、结构特征: 螺栓连接阀盖(B.B)
  - 5、材料按ANSI/ASTM的规定。
  - 6、主体材料  
A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 合金等。
- 1、Design and manufacture conform to BS5352 MSS SP-118;
  - 2、Connection ends conform to:
    - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
    - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to: API 598;GB/T13927;JB/T9092
  - 4、Structure features:Bolted bonnet(B.B)
  - 5、Materials conform to ANSI/ASTM
  - 6、Main materials:  
A105;LF2;F5;F11;F22;304(L);316(L);F347; F321;F51;Monel;20 Alloy.

## ◆ 碳钢温压等级 Carbon steel temperature-pressure rate

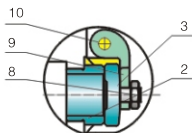
CL150-285 P.S.I @ 100° F    CL300-740 P.S.I @ 100° F  
CL600-1480 P.S.I @ 100° F    CL800-1975 P.S.I @ 100° F  
CL1500-3705 P.S.I @ 100° F

## ◆ 典型零件材料表/Main part materials list

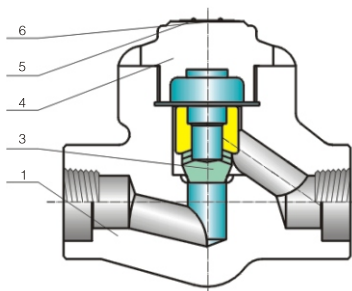
序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	座圈 Seat ring	410	410HF	304	410HF	304(L)	316(L)	F51
3	阀瓣 Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	垫片 Gasket	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	316+柔性石墨 316+Flexible graphite	316+柔性石墨 316+Flexible graphite
5	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
6	螺栓Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
7	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
8	铆钉Revit	AL	AL	AL	AL	AL	AL	AL
9	钢球 Steel ball	430	430	304	STL	316(L)	316(L)	STL
10	阀瓣螺母 Disc nut	2H	2H	8	8	8(M)	8(M)	8M
11	摇臂Hinge	410	410	304	410	316(L)	316(L)	F51
12	销轴Pin	410	410	304	410	304(L)	316(L)	F51



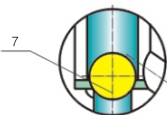
如要加载弹簧需在定货单中注明  
Please mark in you offer if you need load spring



旋启式止回阀示意图  
Swing type



如要加载弹簧需在定货单中注明  
Please mark in you offer if you need load spring



球型止回阀示意图  
Ball type

### ◆ 应用规范/Application standards

- 1、设计制造 BS5352 MSS SP-118;
- 2、连接尺寸
  - 1)承插口尺寸按 ANSI B16.11; JB/T1751
  - 2)螺纹端尺寸按 ANSI B1.20.1; JB/T7306
  - 3)对焊端尺寸按 ANSI B16.25; JB/T12224
  - 4)法兰端尺寸按ANSI B16.5; JB79
- 3、阀门检查和试验API 598; GB/T13927; JB/T9092
- 4、结构特征: 体盖连接垫片采用金属环 (RJ); 螺栓连接阀盖 (B.B) 焊接阀盖 (W.B)
- 5、材料按ANSI/ASTM的规定。
- 6、主体材料  
A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 合金等。

- 1、Design and manufacture conform to BS5352 MSS SP-118;
- 2、Connection ends conform to:
  - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
  - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
  - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
  - 4)Flanged ends conform to ANSI B16.5;JB79
- 3、Test and inspection conform to: API 598; GB/T13927;JB/T9092
- 4、Structure features:Gasket for bonnet connect adopt metal ring; Bolted bonnet,Welded bonnet
- 5、Materials conform to ANSI/ASTM
- 6、Main materials:  
A105;LF2;F5;F11;F22;304(L);316(L);F347; F321;F51;Monel;20 Alloy.

### ◆ 碳钢温压等级 Carbon steel temperature-pressure rate

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

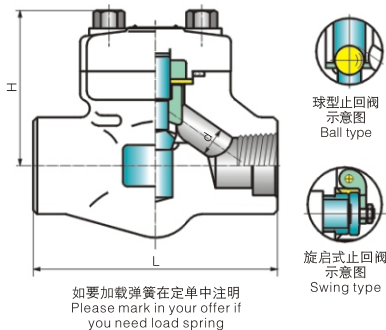
### ◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	座圈 Seat ring	410	410HF	304	410HF	304(L)	316(L)	F51
3	阀瓣Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
5	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
6	铆钉Revit	AL	AL	AL	AL	AL	AL	AL
7	钢球 Steel ball	430	430	304	STL	316(L)	316(L)	STL
8	阀瓣螺母 Disc nut	2H	2H	8	8	8(M)	8(M)	8M
9	摇臂 Hinge	410	410	304	410	316(L)	316(L)	F51
10	销轴Pin	410	410	304	410	304(L)	316(L)	F51
11	双头螺栓 Screwed stud	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
12	螺母Nut	2H	2H	8	8	8(M)	8(M)	8(M)
13	金属环 Metal ring	304	304	304	304	304(L)	316(L)	F51

# 内螺纹与承插焊止回阀 FEMALE THREADED AND SOCKET WELDED CHECK VALVES

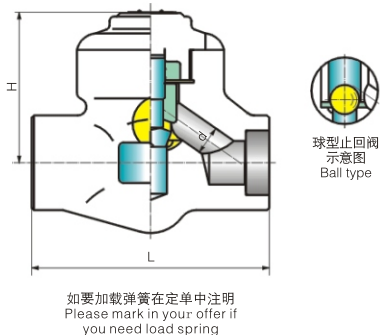


螺栓阀盖，缩径和全径。  
末端连接为螺纹或承插焊或对焊，设计按:BS5352  
Bolted bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to BS5352



## CL800

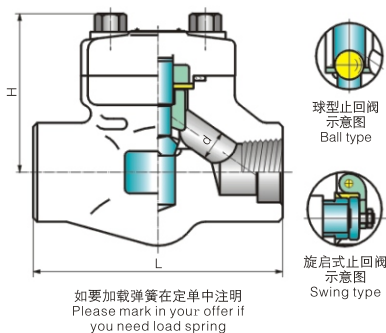
规格(NPS) Specification	R.P		1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2		
	F.P		1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	
结构长度(mm) Face to face	L	升降式 Lift	79	79	92	111	120	152	172	200
		旋启式 Swing	79	79	92	111	120	120	140	178
中心高度(mm) Height	H	升降式 Lift	61	61	61	78	84	84	118	132
		旋启式 Swing	61	61	61	78	84	84	120	133
流道孔径(mm) Flow port dimension	d	升降式 Lift	7	9	13	17.5	23	30	35	46
		旋启式 Swing	8	10.5	13.5	18	24	29	36.5	45
重量 Weight (Kg)		升降式 Lift	1.2	1.5	1.7	3.3	4.2	4.2	10.5	12.5
		旋启式 Swing	1.4	1.5	1.7	3.3	4.2	4.2	8.5	10.9



## CL800

焊接阀盖，缩径和全径。  
末端连接为螺纹或承插焊或对焊，设计按:BS5352  
Welded bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to BS5352

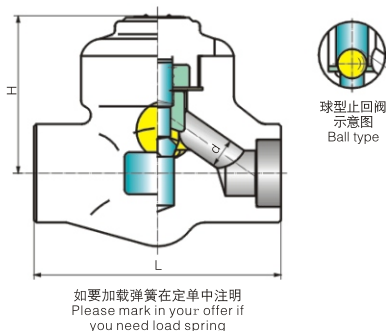
规格(NPS) Specification	R.P		1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	
	F.P		1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	
结构长度(mm) Face to face	L		79	79	92	111	120	152	172	200
中心高度(mm) Height	H		61	61	61	78	84	103	118	132
流道孔径(mm) Flow port dimension	d		7	9	13	17.5	23	30	35	46
重量 Weight (Kg)			1.2	1.3	1.5	3.0	3.9	6.0	10	12



## CL900-CL1500

螺栓阀盖，缩径和全径。  
末端连接为螺纹或承插焊，设计按:BS5352  
Bolted bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to BS5352

规格(NPS) Specification	R.P		1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2		
	F.P		1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	
结构长度(mm) Face to face	L	升降式 Lift	92	111	111	120	152	172	200	
		旋启式 Swing	92	111	111	120	120	140	178	
中心高度(mm) Height	H	升降式 Lift	61	78	78	84	103	118	132	
		旋启式 Swing	61	78	78	84	101	120	133	
流道孔径(mm) Flow port dimension	d	升降式 Lift	7	12	15	20	28	32	40	
		旋启式 Swing	8	10.5	13.5	18	24	29	45	
重量 Weight (Kg)		升降式 Lift	1.5	3.4	3.3	4.2	6.3	10.5	12.5	
		旋启式 Swing	1.5	3.3	3.4	4.2	5.0	8.5	10.9	



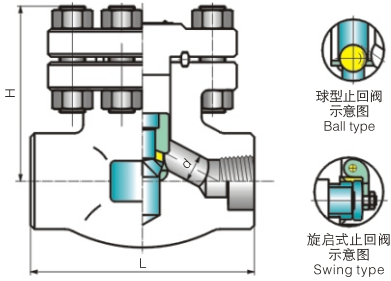
## CL900-CL1500

焊接阀盖，缩径和全径。  
末端连接为螺纹或承插焊，设计按:BS5352  
Welded bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to BS5352

规格(NPS) Specification	R.P		1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	
	F.P		1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L		92	111	111	120	152	172	200
中心高度(mm) Height	H		61	78	78	84	103	118	132
流道孔径(mm) Flow port dimension	d		7	12	15	20	28	32	40
重量 Weight (Kg)			1.3	3.1	3.1	3.9	5.8	10.0	11.5

螺栓阀盖，缩径和全径。  
末端连接为螺纹或承插焊，设计按:BS5352  
Bolted bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to BS5352

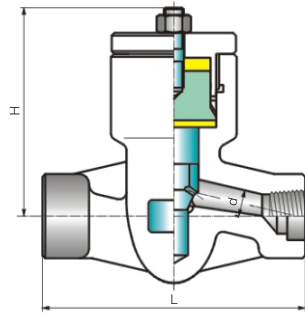
## CL900-CL1500



规格(NPS) Specification	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
结构长度(mm) Face to face	L	110	110	110	110	150	150	210	235	
中心高度(mm) Height	H	166	166	171	207	240	258	330	355	
流道孔径(mm) Flow port dimension	d	升降式 Lift	9	10	12	15	20	28	32	40
		旋启式 Swing	8	10.5	13.5	18	24	29	36.5	45
重量 Weight (Kg)		升降式 Lift	2	2.1	1.9	4	5.1	7.2	12.1	14
		旋启式 Swing	1.9	2.3	2.3	4.35	5.25	7.8	12.5	14.6

压力自紧式阀盖，缩径和全径。  
末端连接为螺纹或承插焊，设计按:BS5352  
Pressure seal bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to BS5352

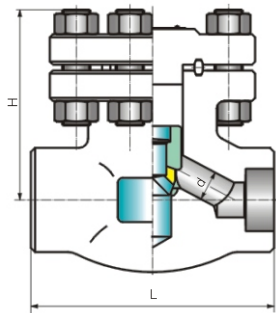
## CL900-CL1500



规格(NPS) Specification	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
结构长度(mm) Face to face	L		140	140	140	178	216	216		
中心高度(mm) Height	H		117	117	117	152	195	195		
流道孔径(mm) Flow port dimension	d		12	15	20	28	32	40		
重量 Weight (Kg)			6.8	7.0	7.5	18.5	20.3	22		

螺栓阀盖，全径。  
末端连接为螺纹或承插焊，设计按 ASME B16.34  
Bolted bonnet, full port  
Threaded, butt-welded or socket welded ends; design to ASME B16.34

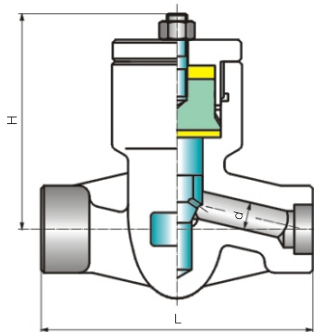
## CL2500



规格(NPS) Specification	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L	150	150	150	150	210	235	235	235
中心高度(mm) Height	H	166	166	171	207	240	258	330	355
流道孔径(mm) Flow port dimension	d	7.5	10.5	11	14	19	25	28	35
重量 Weight (Kg)		11.9	12.3	17	46	62	73	58	85

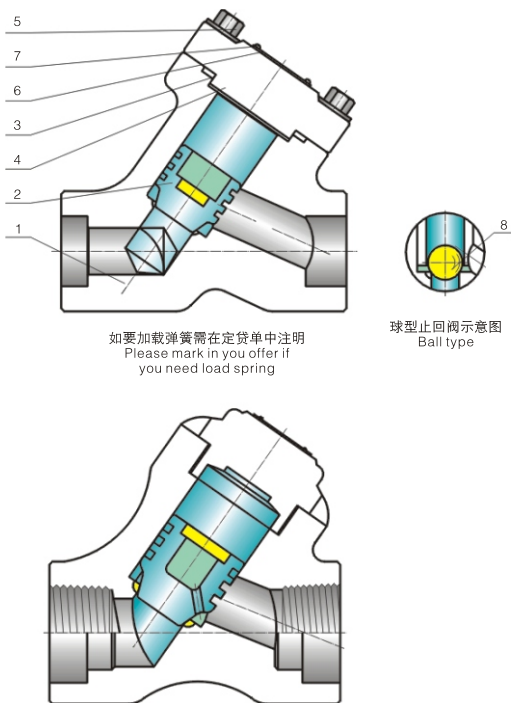
压力自紧式阀盖，全径。  
末端连接为螺纹或承插焊，设计按 ASME B16.34  
Pressure seal bonnet, full port  
Threaded, butt-welded or socket welded ends; design to ASME B16.34

## CL2500



规格(NPS) Specification	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L			186	186	186	232	232	279
中心高度(mm) Height	H			117	117	117	152	152	195
流道孔径(mm) Flow port dimension	d			11	14	19	25	28	35
重量 Weight (Kg)				10.5	11	11.8	23	26.4	39

# 内螺纹焊接Y型止回阀 FEMALE THREADED WELDED Y TYPE CHECK VALVES



## ◆ 应用规范/Application standards

- 1、设计制造 BS5352 MSS SP-118;
  - 2、连接尺寸
    - 1)承插口尺寸按 ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按 ANSI B16.5; JB79
  - 3、阀门检查和试验: API 598; GB/T13927; JB/T9092
  - 4、结构特征: 螺栓连接阀盖(B.B)焊接阀盖(W.B)
  - 5、材料按 ANSI/ASTM的规定。
  - 6、主体材料  
A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20合金等。
- 1、Design and manufacture conform to BS5352 MSS SP-118;
  - 2、Connection ends conform to:
    - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
    - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
  - 4、Structure features:Bolted bonnet, Welded bonnet
  - 5、Materials conform to ANSI/ASTM
  - 6、Main materials:  
A105;LF2;F5;F11;F22;304(L);316(L);F347; F321;F51;Monel;20 Alloy.

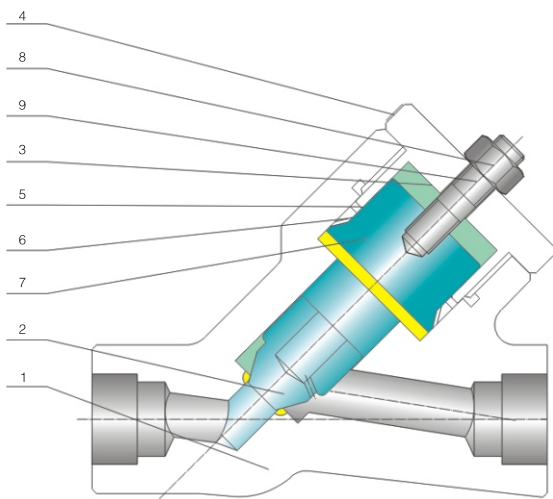
## ◆ 碳钢温压等级 Carbon steel temperature-pressure rate

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

## ◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	阀瓣 Disc	410	410HF	304	410HF	304(L)	316(L)	F51
3	垫片 Gasket	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	316+柔性石墨 316+Flexible graphite	316+柔性石墨 316+Flexible graphite
4	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
5	螺栓 Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
6	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
7	铆钉 Revit	AL	AL	AL	AL	AL	AL	AL
8	钢球 Steel ball	430	430	304	STL	316(L)	316(L)	STL





◆ **应用规范/Application standards**

- 1、设计制造ASME B16.34 MSS SP-118;
- 2、连接尺寸
  - 1)承插口尺寸按 ANSI B16.11; JB/T1751
  - 2)螺纹端尺寸按 ANSI B1.20.1; JB/T7306
  - 3)对焊端尺寸按ANSI B16.25; JB/T12224
  - 4)法兰端尺寸按 ANSI B16.5; JB79
- 3、阀门检查和试验: API 598; GB/T13927; JB/T9092
- 4、结构特征: 螺纹连接阀盖压力自紧式密封; Y型或T型结构
- 5、材料按 ANSI/ASTM的规定。
- 6、主体材料
  - A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 合金等。
- 1、Design and manufacture conform toASME B16.34 MSS SP-118;
- 2、Connection ends conform to:
  - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
  - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
  - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
  - 4)Flanged ends conform to ANSI B16.5;JB79
- 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
- 4、Structure features: A threaded and pressure seal bonnet; Y type and T type.
- 5、Materials conform to ANSI/ASTM
- 6、Main materials:
  - A105;LF2;F5;F11;F22;304(L);316(L);F347; F321;F51;Monel;20 Alloy.

◆ **碳钢温压等级**

**Carbon steel temperature-pressure rate**

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

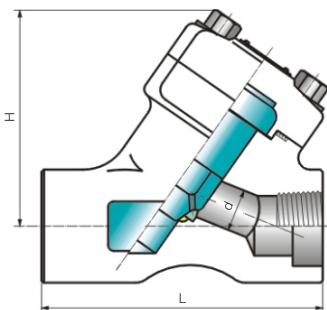
◆ **典型零件材料表/Main part materials list**

序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
2	阀瓣 Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
3	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
4	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
5	密封圈垫片 Seal ring gasket	420	420	304	304	304(L)	316(L)	410
6	自密封圈 P.S.ring	304	304	304	304	316L	316L	316L
7	自密封座 P.S.seat	F410	F410	F304	F410	F304	F316	F51
8	提升螺母 Lift nut	2H	2H	8	8	8(M)	8(M)	8M
9	提升螺栓 Lift stud	B7	B7	L7	B16	B8(M)	B8(M)	B8M

# Y型止回阀 Y TYPE CHECK VALVES



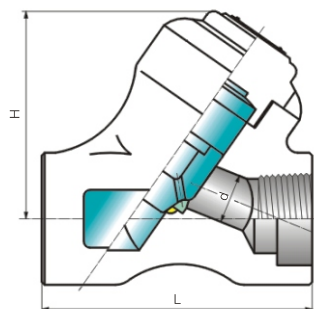
螺栓阀盖，缩径和全径。  
末端连接为螺纹或承插焊或对焊，设计按:BS5352  
Bolted bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to BS5352



## CL800

规格(NPS) Specification	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
结构长度(mm) Face to face	L	98	98	98	111	140	140	155	170	
中心高度(mm) Height	H	70	70	70	100	110	120	120	150	
流道孔径(mm) Flow port dimension	d	7	10	13	17.5	23	30	35	46	
重量 Weight (Kg)		2.1	2.2	2.2	4.2	8.9	9	10	18.6	

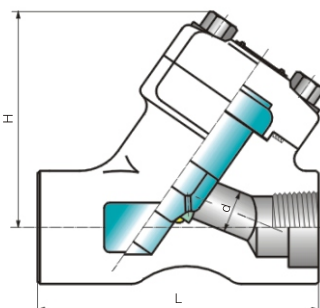
焊接阀盖，缩径和全径。  
末端连接为螺纹或承插焊或对焊，设计按:BS5352  
Welded bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to BS5352



## CL800

规格(NPS) Specification	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
结构长度(mm) Face to face	L	79	79	92	100	140	140	155	170	
中心高度(mm) Height	H	65	65	65	95	105	110	110	140	
流道孔径(mm) Flow port dimension	d	7	10	13	17.5	23	30	35	46	
重量 Weight (Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	16	

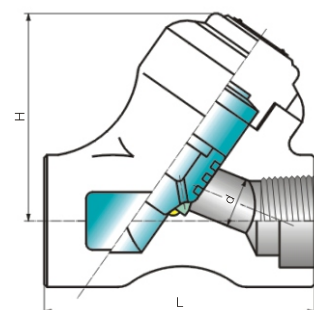
螺栓阀盖，全径。  
末端连接为螺纹或承插焊或对焊，设计按:BS5352  
Bolted bonnet, full port  
Threaded, butt-welded or socket welded ends; design to BS5352



## CL900-CL1500

规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
结构长度(mm) Face to face	L	98	111	111	140	140	155	170	
中心高度(mm) Height	H	70	70	100	110	110	120	150	
流道孔径(mm) Flow port dimension	d	9	12	15	20	28	32	40	
重量 Weight (Kg)		2.1	4.2	8.9	9	10	18.6	20	

焊接阀盖，全径。  
末端连接为螺纹或承插焊或对焊，设计按:BS5352  
Welded bonnet, full port  
Threaded, butt-welded or socket welded ends; design to BS5352

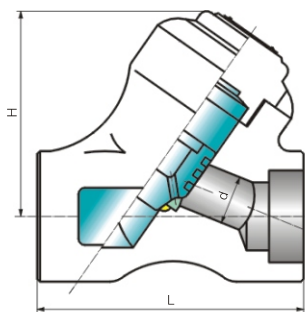


## CL900-CL1500

规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
结构长度(mm) Face to face	L	92	100	100	140	140	155	170	
中心高度(mm) Height	H	65	65	65	105	110	110	140	
流道孔径(mm) Flow port dimension	d	9	12	15	20	32	28	40	
重量 Weight (Kg)		2.0	3.5	3.5	8.0	12	12	18	

焊接阀盖，全径。  
末端连接为螺纹或承插焊或对焊，设计按:ASME B16.34  
Welded bonnet, full port  
Threaded, butt-welded or socket welded ends; design to ASME B16.34

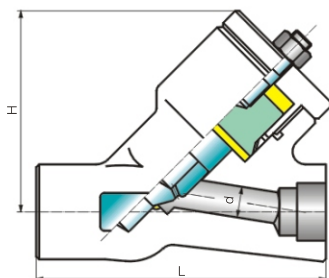
**CL2500**



规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L	186	186	186	186	232	232	310
中心高度(mm) Height	H	115	115	120	150	150	150	160
流道孔径(mm) Flow port dimension	d	9	11	14	19	25	28	35
重量 Weight (Kg)		10.6	10.8	11.2	11.5	25	22	39

压力自紧式密封，螺纹连接阀盖，全径。  
末端连接为螺纹或承插焊或对焊，设计按:ASME B16.34  
Pressure seal, bolted bonnet, full port  
Threaded, butt-welded or socket welded ends; design to ASME B16.34

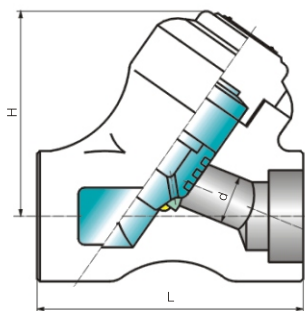
**CL2500**



规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L	186	186	186	186	232	232	310
中心高度(mm) Height	H	233	233	233	233	256	256	330
流道孔径(mm) Flow port dimension	d	9	11	14	19	25	28	35
重量 Weight (Kg)		10.6	10.8	11.2	11.5	25	22	39

焊接阀盖，全径。  
末端连接为螺纹或承插焊或对焊，设计按:ASME B16.34  
Welded bonnet, full port  
Threaded, butt-welded or socket welded ends; design to ASME B16.34

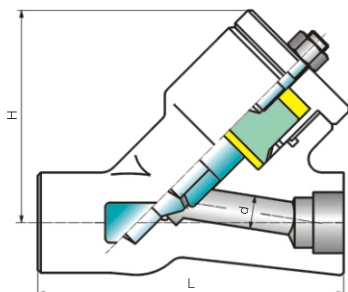
**CL4500**



规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L	155	155	155	155		225	225
中心高度(mm) Height	H	120	120	120	145		160	160
流道孔径(mm) Flow port dimension	d	9	11	11	15		26	28
重量 Weight (Kg)		8	8.7	8.7	8.7		16.5	16

压力自紧式密封，螺纹连接阀盖，全径。  
末端连接为螺纹或承插焊或对焊，设计按:ASME B16.34  
Pressure seal, bolted bonnet, full port  
Threaded, butt-welded or socket welded ends; design to ASME B16.34

**CL4500**



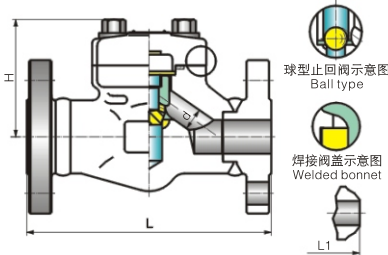
规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L	200	200	200	200	250	250	330
中心高度(mm) Height	H	140	140	140	140	160	160	180
流道孔径(mm) Flow port dimension	d	9	11	11	15	20	26	28
重量 Weight (Kg)		20	20	20	20	28	28	45

# 法兰与对焊止回阀 FLANGE AND BUTT-WELDED CHECK VALVES



螺栓阀盖，缩径。  
末端连接法兰或对焊，设计按:BS5352  
Bolted bonnet, reducing port  
Flange- or butt-welded ends; design to BS5352

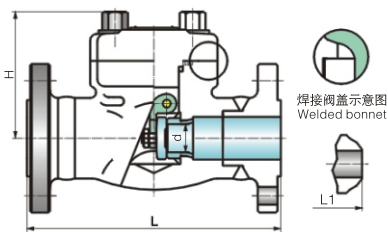
## CL150-300-600



规格(NPS) Specification		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度 (mm) Face to face	CL150	L(RF) L1(BW)	-	-	108	118	127	140	165	203
	CL300		-	-	153	178	203	216	229	267
	CL600		-	-	165	191	216	229	241	292
中心高度(mm) Height	CL150	H	-	-	77	81	93	95	103	118
	CL300/600		-	-	61	78	84	101	120	133
流通孔径(mm)Flow port dimension		d	-	-	10	13	17.5	23	30	35
重量(Kg) Weight	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	16.2
	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

螺栓阀盖，缩径。  
末端连接法兰或对焊，设计按:BS5352  
Bolted bonnet, reducing port  
Flange- or butt-welded ends; design to BS5352

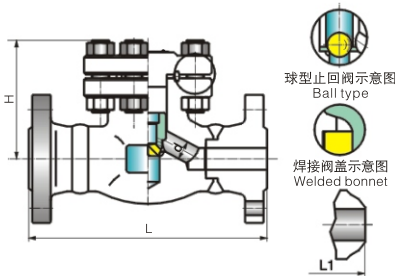
## CL150-300-600



规格(NPS) Specification		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度 (mm) Face to face	CL150	L(RF) L1(BW)	-	-	108	118	127	140	165	203
	CL300		-	-	153	178	203	216	229	267
	CL600		-	-	165	191	216	229	241	292
中心高度(mm) Height	CL150	H	-	-	77	81	93	95	103	118
	CL300/600		-	-	61	78	84	101	120	133
流通孔径(mm)Flow port dimension		d	-	-	10.5	13.5	18	24	29	36.5
重量(Kg) Weight	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	16.2
	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

螺栓阀盖，缩径。  
末端连接法兰或对焊，设计按:BS5352  
Bolted bonnet, reducing port  
Flange- or butt-welded ends; design to BS5352

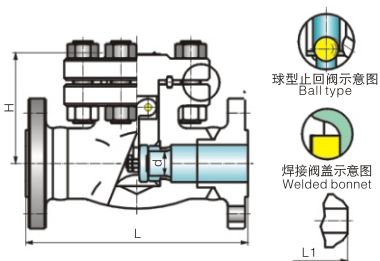
## CL150-300-600



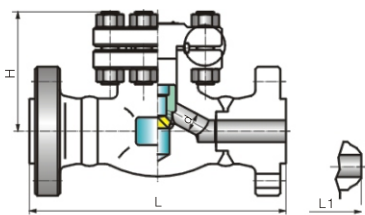
规格(NPS) Specification		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度 (mm) Face to face	CL150	L(RF) L1(BW)	-	-	108	118	127	140	165	203
	CL300		-	-	153	178	203	216	229	267
	CL600		-	-	165	191	216	229	241	292
中心高度(mm) Height	CL150	H	-	-	77	81	93	95	103	118
	CL300/600		-	-	61	78	84	101	120	133
流通孔径(mm)Flow port dimension		d	-	-	10	13	17.5	23	30	35
重量(Kg) Weight	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

螺栓阀盖，缩径。  
末端连接法兰或对焊，设计按:BS5352  
Bolted bonnet, reducing port  
Flange- or butt-welded ends; design to BS5352

## CL150-300-600



规格(NPS) Specification		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度 (mm) Face to face	CL150	L(RF) L1(BW)	-	-	108	118	127	140	165	203
	CL300		-	-	153	178	203	216	229	267
	CL600		-	-	165	191	216	229	241	292
中心高度(mm) Height	CL150	H	-	-	77	81	93	95	103	118
	CL300/600		-	-	61	78	84	101	120	133
流通孔径(mm)Flow port dimension		d	-	-	10.5	13.5	18	24	29	36.5
重量(Kg) Weight	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	16.2
	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

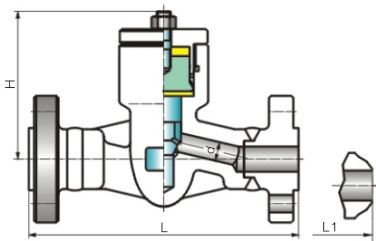


球型止回阀示意图 Ball type  
旋启式止回阀示意图 Swing type  
焊接阀盖示意图 Welded bonnet

## CL900-CL1500

螺栓阀盖，全径。  
末端连接法兰或对焊，设计按:BS5352  
Bolted bonnet, full port  
Flange- or butt-welded ends; design to BS5352

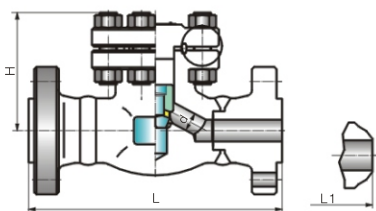
规格(NPS) Specification	F.P	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	
结构长度(mm) Face to face	L(RJ) L1(BW)	216	229	254	280	305	371	
中心高度(mm) Height	H	81	93	95	101	118	130	
流道孔径(mm) Flow port dimension	d	升降式 Lift	12	15	20	28	32	40
		旋启式 Swing	13.5	18	24	29	36.5	45
重量 Weight (Kg)		升降式 Lift	5.2	6.8	10.5	28	18	24
		旋启式 Swing	5.0	6.1	10.8	29	17.6	27



## CL900-CL1500

压力自紧式，螺纹连接阀盖，缩径和全径。  
末端连接法兰或对焊，设计按:BS5352  
Pressure seal, bolted bonnet, full port and reducing port  
Flange- or butt-welded ends; design to BS5352

规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2
结构长度(mm) Face to face	L(RF),L1(BW)		216	229	254	280	305	268
	L(RTJ)		216	229	254	280	305	371
中心高度(mm) Height	H		117	117	117	152	152	195
流道孔径(mm) Flow port dimension	d		12	15	20	28	32	40
重量 Weight (Kg)			10.5	11.9	13.9	19.9	26.9	32.5

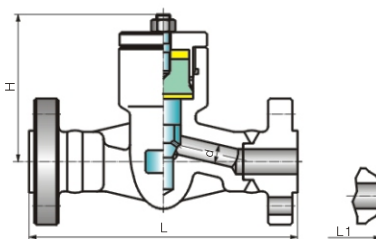


球型止回阀示意图 Ball type  
旋启式止回阀示意图 Swing type  
焊接阀盖示意图 Welded bonnet

## CL2500

螺栓阀盖，全径。  
末端连接法兰或对焊，设计按 ASME B16.34  
Bolted bonnet, full port  
Flange- or butt-welded ends; design to ASME B16.34

规格(NPS) Specification	F.P	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	
结构长度(mm) Face to face	L(RF),L1(BW)	264	273	308	349	384	450	
	L(RTJ)	264	273	308	352	387	454	
中心高度(mm) Height	H	81	93	95	101	118	130	
流道孔径(mm) Flow port dimension	d	升降式 Lift	12	15	20	28	32	40
		旋启式 Swing	10.5	13.5	18	24	29	36.5
重量 Weight (Kg)		升降式 Lift	17	21	28	14.5	58	85
		旋启式 Swing	5.0	6.1	10.8	11.2	17.6	27



## CL2500

压力自紧式密封，螺纹连接阀盖，全径。  
末端连接法兰或对焊，设计按 ASME B16.34  
pressure seal, bolted bonnet, full port  
Flange- or butt-welded ends; design to ASME B16.34

规格(NPS) Specification	F.P	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2
结构长度(mm) Face to face	L(RF),L1(BW)		264	273	308	349	384	450
	L(RTJ)		264	273	308	352	387	454
中心高度(mm) Height	H		117	117	117	152	152	195
流道孔径(mm) Flow port dimension	d		12	15	20	32	28	40
重量 Weight (Kg)			12.6	14.9	16.5	24.8	30	35

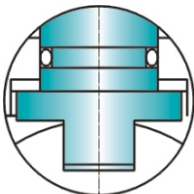
Since Professional We Can Do Better!

# Forged Steel Ball Valve Series

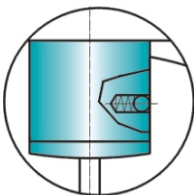
## 锻钢球阀系列 >>>



N V F compact ball valves are trusted by many customers because of its reasonable structures small space-occupation and good sealing performance



防阀杆吹出结构  
Blow out proof stem



防静电结构  
Anti static



防火结构  
Fire safe

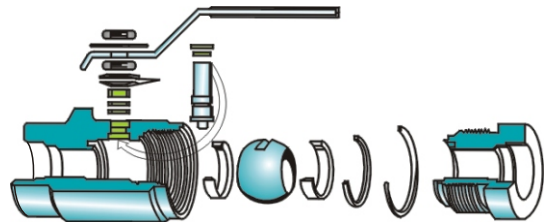
### ◆ 设计结构/Design structure

阀座采用PTFE+25%玻纤或PEEK。PTFE+25%玻纤在高压下能获得比PTFE更好的性能，而且还能减少酸性介质腐蚀，通常在800磅级的压力下采用；另外可以根据客户要求定做进口PEEK材质，以适应高温，高压工况下的高密封工作性能。

具有防火、防静电以及防阀杆吹出结构。

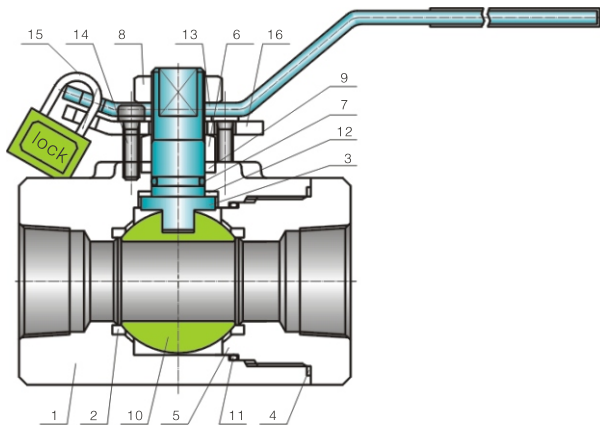
Seat is made of PTFE reinforced with 25% glass fibre or PEEK. PTFE with 25% glass fibre can gain better performances normally used for class 800 ball valves. PEEK can gain better performances under high pressure and high temperature normally used for class 1500 ball valves.

Anti static/ fire safe/ blow out proof stem



### ◆ 流量系数 Flow coefficient Cv

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



◆ 应用规范/Application standards

- 1、设计制造：BS5351 MSS SP-118；
  - 2、连接端尺寸：
    - 1)承插口尺寸按：ANSI B16.11；JB/T1751
    - 2)螺纹端尺寸按：ANSI B1.20.1；JB/T7306
    - 3)对焊端尺寸按：ANSI B16.25；JB/T12224
    - 4)法兰端尺寸按：ANSI B16.5；JB79
  - 3、阀门检查和试验：API 598；GB/T13927；JB/T9092
  - 4、结构特征：螺纹连接阀盖；两段式；
  - 5、材料：按：ANSI/ASTM.规定。
  - 6、主体材料：A105；LF2；304(L)；316(L)；F347；F321；F51；Monel；20合金等。
- 1、Design and manufacture conform : BS5351 MSS SP-118;
  - 2、Connection ends conform to:
    - 1)Socket welded ends conform: ANSI B16.11;JB/T1751
    - 2)Screw ends conform: ANSI B1.20.1;JB/T7306
    - 3)Butt-welded ends conform: ANSI B16.25;JB/T12224
    - 4)Flanged ends conform: ANSI B16.5;JB79
  - 3、Test and inspection conform: API 598;GB/T13927;JB/T9092
  - 4、Structure features: Screw thread;two-piece;
  - 5、Materials conform: ANSI/ASTM.
  - 6、Main materials: A105;LF2;304(L);316(L);F347;F321;F51;Monel;20 Alloy.

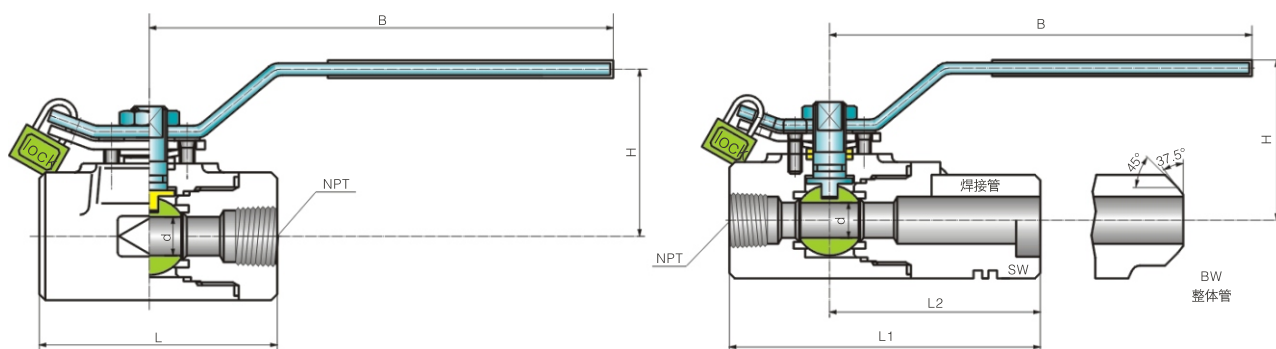
◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

◆ 典型零件材料表/Main part materials list

序号NO.	名称 Part name	A105/F6a	LF2/304	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体Body	A105	LF2	F304(L)	F316(L)	F51
2	阀座Seat	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK
3	阀杆Stem	410	304	304(L)	316(L)	F51
4	垫片Gasket	PTFE	PTFE	PTFE	PTFE	PTFE
5	阀盖Bonnet	A105	LF2	F304	F316	F51
6	填料压套Gland	410	304	304(L)	316(L)	F51
7	填料压板Gland flange	A105	LF2	F304	F316	F51
8	扁螺母 Flat nut	8	8	8	8M	8M
9	填料Packing	PTFE	PTFE	PTFE	PTFE	PTFE
10	球体Ball	F6	F304	F304(L)	F316(L)	F51
11	O型密封圈O-ring	VITON	VITON	VITON	VITON	VITON
12	上密封垫片 Back seat gasket	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK
13	手柄Wrench	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025
14	内六角螺钉Screw	B8	B8	B8	B8M	B8M
15	锁Lock	成品	成品	成品	成品	成品
16	定位片Locator	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025

# 二片式锻钢球阀 2PCS FORGED STEEL BALL VALVES



末端连接可按一端螺纹和一端接管（承插焊或对焊）设计按:BS5351  
One end is welded pipe (butt-welding or socket welding) and the other is thread, design conform to BS 5351

## CL800

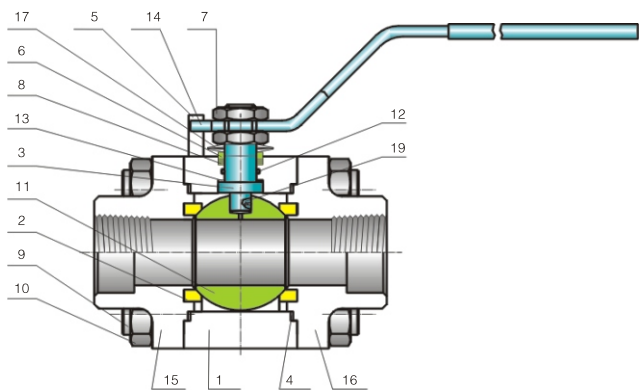
规格(NPS) Specification	缩径(R.P)	1/2	3/4	1	1 1/4	1 1/2	2			
		全径(F.P)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度 (mm) Face to face	L1	70	70	80	95	115	125	135	155	
接管端至中心(mm) Coupling pipe end to center	L2	121	121	121	130	136	140	148	160	
中心至手柄端(mm) Center to handle end	B	160	160	160	160	170	230	230	280	
中心高度 (mm)Height	H	60	60	60	65	85	105	105	125	
流道孔径 (mm) Height(angle dimension)	d	6	9	12.5	17	24	37	37	49	
重量(约)(kg) Weight		1.2	0.9	1.3	2.2	3.5	6.5	6.5	11	

## CL1500-CL2500

末端连接可按一端螺纹和一端接管（承插焊或对焊）设计按:API6D  
One end is welded pipe (butt-welding or socket welding) and the other is thread, design conform to API6D

规格(NPS) Specification	全径(F.P)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
		结构长度 (mm) Face to face	L1	CL1500 80	80	95	115	125	135	155
接管端至中心(mm) Coupling pipe end to center	L2	CL1500	121	121	130	136	140	148	160	175
		CL2500			136	140	148		175	
中心至手柄端(mm) Center to handle end	B	CL1500	160	160	160	170	230	230	280	280
		CL2500			230	230	280		280	130
中心高度 (mm)Height	H	CL1500	60	60	65	85	105	105	125	
		CL2500			90	110	125			
流道孔径 (mm) Height(angle dimension)	d	CL1500	6	9	13	19	25	32	38	49
		CL2500	6	9	13	19	25		38	42
重量(约)(kg) Weight		CL1500	1.2	1.5	2.5	3.7	5.8		11.5	13.7
		CL2500	1.5	1.9	2.7	4.1	6.3		12	15





◆ **应用规范/Application standards**

- 1、设计制造：BS5351 MSS SP-118；
  - 2、连接端尺寸：
    - 1)承插口尺寸按：ANSI B16.11；JB/T1751
    - 2)螺纹端尺寸按：ANSI B1.20.1；JB/T7306
    - 3)对焊端尺寸按：ANSI B16.25；JB/T12224
    - 4)法兰端尺寸按：ANSI B16.5；JB79
  - 3、阀门检查和试验：API 598；GB/T13927；JB/T9092
  - 4、结构特征：螺栓连接阀盖；三段式；
  - 5、材料：按：ANSI/ASTM.规定。
  - 6、主体材料：A105；LF2；F5；F11；F22；304(L)；316(L)；F347；F321；F51；Monel；20合金等。
- 1、Design and manufacture conform:BS5351 MSS SP-118;
  - 2、Connection ends conform to:
    - 1)Socket welded ends conform:ANSI B16.11;JB/T1751
    - 2)Screw ends conform :ANSI B1.20.1;JB/T7306
    - 3)Butt-welded ends conform:ANSI B16.25;JB/T12224
    - 4)Flanged ends conform:ANSI B16.5;JB79
  - 3、Test and inspection conform : API 598；GB/T13927；JB/T9092
  - 4、Structure features: Bolted bonnet；three-piece；；
  - 5、Materials conform:ANSI/ASTM.
  - 6、Main materials: A105;LF2;F5;F11;F22;304(L)；316(L)；F347;F321;F51;Monel;20Alloy.

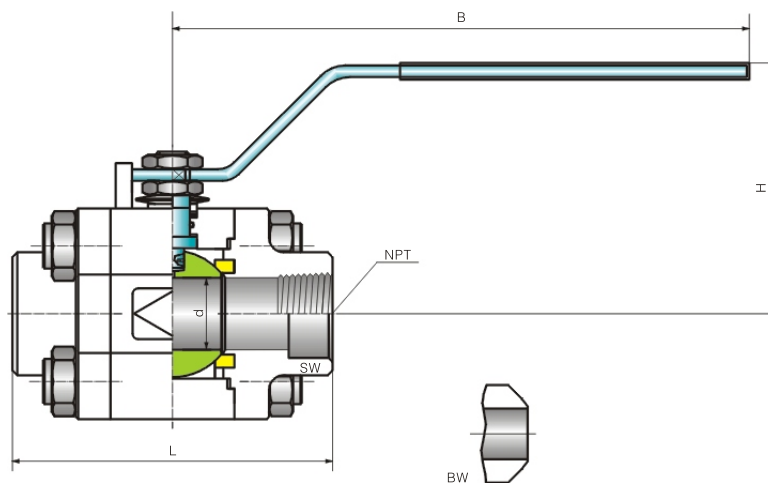
◆ **碳钢温压等级/Carbon steel temperature-pressure rate**

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

◆ **典型零件材料表/Main part materials list**

序号NO.	名称 Part name	A105/F6a	LF2/304	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体Body	A105	LF2	F304(L)	F316(L)	F51
2	阀座Seat	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK
3	阀杆Stem	410	304	304(L)	316(L)	F51
4	垫片Gasket	PTFE	PTFE	PTFE	PTFE	PTFE
5	圆柱销Pin	25	304	304	304	304
6	压套Gland	410	304	304(L)	316(L)	F51
7	扁螺母Flat nut	8	8	8	8M	8M
8	填料Packing	PTFE	PTFE	PTFE	PTFE	PTFE
9	双头螺栓Bolt	B7	B8	B8	B8M	B8M
10	螺母Nut	2H	8	8	8M	8M
11	球体Ball	F6	F304	F304(L)	F316(L)	F51
12	O型密封圈O-ring	VITON	VITON	VITON	VITON	VITON
13	上密封垫片 Back seat gasket	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK	RPTFE或PEEK
14	手柄Wrench	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025
15	左阀盖 Left bonnet	A105	LF2	F304	F316	F51
16	右阀盖 Right bonnet	A105	LF2	F304	F316	F51
17	碟簧 Butterfly spring	65Mn	65Mn	304	304	304
18	弹垫 Elastic washer	65Mn	65Mn	304	304	304
19	静电弹簧 Anti-static spring	304	304	304	316L	316L

# 三片式锻钢球阀 3PCS FORGED STEEL BALL VALVES



末端连接可按一端螺纹和一端接管（承插焊或对焊）设计按:BS5351  
Connection ends may be pipe-welded (butt-welding or socket welding)and/or threaded, design to BS5351

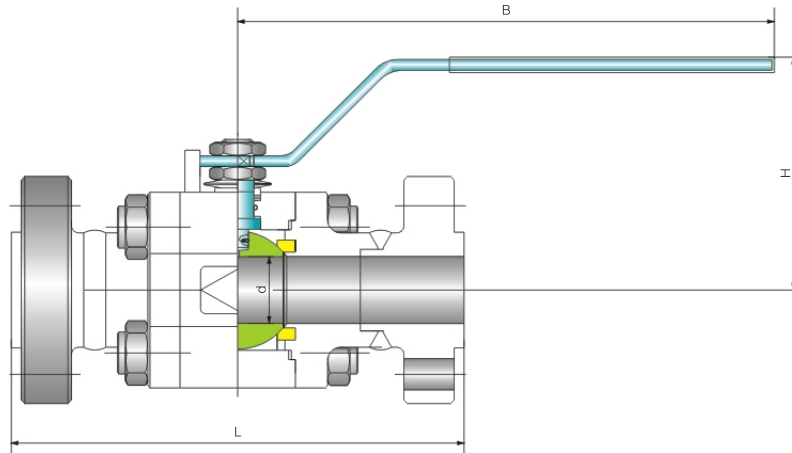
## CL800-CL1500

规格(NPS) Specification	全径(F.P)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
结构长度 (mm) Face to face	L1	92	92	92	111	127	140	152	152	
中心至手柄端(mm) Center to handle end	B	108	108	108	146	178	178	200	200	
中心高度(mm)Height	H	51	51	51	108	81	85	105	105	
流道孔径 (mm) Height(angle dinmension)	d	CL800	6	9	13	18	23	28	35	49
		CL1500	6	9	13	19	25	32	38	49
重量(约)(kg)Weight		2.5	2.4	2.3	3.4	5.4	6.4	11	13	
		2.5	2.4	2.5	3.7	5.8	6.8	11.5	13.7	

末端连接可按一端螺纹和一端接管（承插焊或对焊）设计按:BS5351  
Connection ends may be pipe-welded (butt-welding or socket welding)and/or threaded, design to BS5351

## CL2500

规格(NPS) Specification	全径(F.P)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度 (mm) Face to face	L			110	125	135		160	
中心至手柄端(mm) Center to handle end	B			170	230	230		310	
中心高度(mm)Height	H			95	110	125			
流道孔径 (mm) Height(angle dinmension)	d			13	19	25		38	
重量(约)(kg)Weight				2.7	4.1	6.3		12	



末端连接可按法兰或对焊，设计按:API 6D结构长度按工厂标准  
Flanged or butt-welded ends; design to API 6D Face to face conforms to manufacture standard

**CL1500-CL2500**

规格(NPS) Specification	全径(F.P)		1/2	3/4	1	1 1/4	1 1/2	2
结构长度 (mm) Face to face	L	CL1500	216	229	2564	279	305	368
		CL2500	264	273	308	349	384	451
中心至手柄端(mm) Center to handle end	B	CL1500	230	230	350	280	400	400
		CL2500	280	280	95	350	400	400
中心高度 (mm)Height	H	CL1500	75	85	85	105	110	130
		CL2500	75	85	95	105	110	130
流道孔径 (mm) Height(angle dinmension)	d	CL1500	13	19	25	32	38	49
		CL2500	13	19	25	32	38	42
重量(约)(kg)Weight(Kg)		CL1500	2.5	5.8	5.8	6.8	11.5	13.7
		CL2500	2.7	6.3	6.3	6.8	12	15

# Forged Steel Cryogenic Valve Series

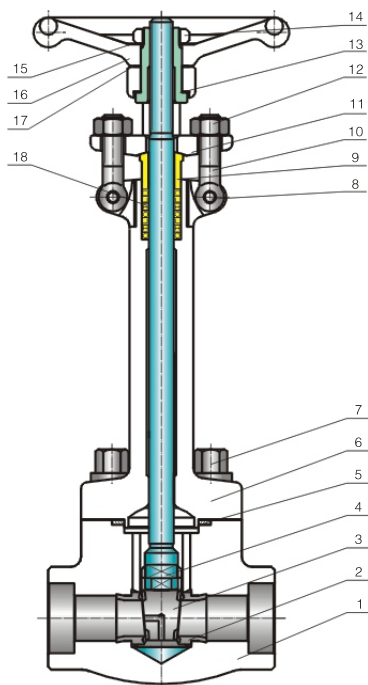
锻钢低温阀门系列 >>>



N V F cryogenic valves are available in two bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304+flexible graphite. Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available.

## ◆ 采用标准/Standards

- 全径或缩径
- 明杆支架式(OS&Y);
- 长颈阀盖;
- 自定心压板压套式;
- 螺栓连接、缠绕垫片这密封式阀盖;
- 螺纹连接、全焊密封式阀盖;
- 整体式上密封座;
- 承插端符合ASME B16.11;
- 螺纹连接端(NPT)符合ANSI/ASME B1.20.1.
- Full port or reduced port;
- Outsied screw and yoke (OS&Y);
- Extended bonnet;
- Self-centering gland and flange;
- Bolted bonnet with spiral-wound gasket sealing bonnet;
- Threaded with full welding seal bonnet;
- Integral backseat;
- Socket welded ends to ASME B16.11;
- Screwed ends(NPT) to ANSI/ASME B1.20.1.



### ◆ 应用规范/Application standards

- 1、设计制造 API 602 BS5352 ANSI B16.34;
  - 2、连接端尺寸
    - 1)承插口尺寸按 ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按 ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按ANSI B16.5; JB79
  - 3、检查和试验: API 598; GB/T13927; JB/T9092
  - 4、结构特征
    - 螺栓连接阀盖 (B.B)和明杆支架 (OS & Y)
    - 或焊接阀盖(W.B)和明杆支架(OS & Y)
  - 5、材料按ANSI/ASTM的规定。
  - 6、主体材料: LF2; LF3; 304(L); 316(L); F347; F321; F51.
- 1、Design and manufacture conform to API 602 BS5352 ANSI B16.34;
  - 2、Connection ends conform to:
    - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
    - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
  - 4、Structure features:
    - Bolted bonnet, outside screw and yoke
    - Welded bonnet, outside screw and yoke
  - 5、Materials conform to ANSI/ASTM
  - 6、Main materials:LF2;LF3;304(L);316(L);F347;F321;F51.

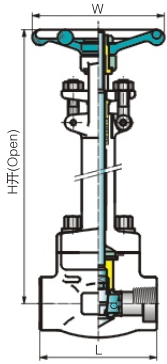
### ◆ 碳钢温压等级

#### Carbon steel temperature-pressure rate

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

### ◆ 典型零件材料表/Main part materials list

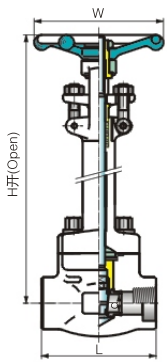
序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	LF3/304	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	-	-	LF2	LF3	F304(L)	F316(L)	F51
2	座圈 Seat ring	-	-	304	304	304(L)	316(L)	F51
3	闸板 Wedge disc	-	-	F304	F304	F304(L)	F316(L)	F51
4	阀杆 Stem	-	-	304	F304	304(L)	316(L)	F51
5	垫片 Gasket	-	-	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	316+柔性石墨 316+Flexible graphite	316+柔性石墨 316+Flexible graphite
6	阀盖 Bonnet	-	-	LF2	LF3	F304(L)	F316(L)	F51
7	螺栓 Bolt	-	-	L7	L7	B8	B8	B8
8	销 Pin	-	-	410	410	304	304	304
9	填料压套 Gland	-	-	304	304	304	316	F51
10	活节螺栓 Eyelet bolt	-	-	L7	L7	B8(M)	B8(M)	B8M
11	填料压板 Gland flange	-	-	LF2	LF3	F304	F304	F304
12	六角螺母 Hex nut	-	-	2H	2H	8(M)	8(M)	8M
13	阀杆螺母 Stem nut	-	-	410	410	410	410	410
14	锁紧螺母 Locking nut	-	-	35	35	35	35	35
15	铭牌 Nameplate	-	-	AL	AL	AL	AL	AL
16	手轮 Handwheel	-	-	A197	A197	A197	A197	A197
17	润滑垫片 Lubricating gasket	-	-	410	410	410	410	410
18	填料 Packing	-	-	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite



**CL800**

螺栓连接低温加长闸盖，缩径和全径，明杆支架(OS&Y)  
末端连接可按螺纹或承插焊或对焊，设计按API 602  
Bolted bonnet cryogenic extended bonnet full port & reduced port, OS&Y  
Threaded, butt-welded or socket welded ends; design to API 602

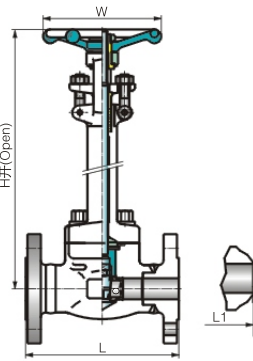
规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3	
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	
结构长度(mm) Face to face	L	79	79	92	111	120	120	140	178	180	
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	220	
中心高度(开)(mm) Height	H	-196	291	291	293	340	375	400	450	490	560
		-46	255	255	258	290	325	265	395	440	485
流道孔径(mm) Flow port dimension	d	7.5	10.5	13.5	18	24	29	36.5	45	51	
重量 Weight (Kg)		3.5	3.5	4.3	6.7	10.9	12	14.8	28	36	



**CL1500**

螺栓连接低温加长闸盖，缩径和全径，明杆支架(OS&Y)  
末端连接可按螺纹或承插焊或对焊，设计按API 602  
Bolted bonnet cryogenic extended bonnet full port & reduced port, OS&Y  
Threaded, butt-welded or socket welded ends; design to API 602

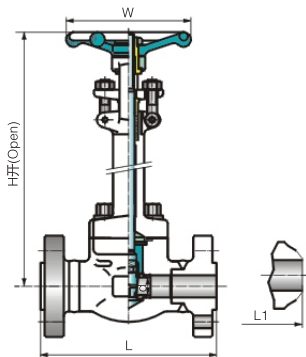
规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	
结构长度(mm) Face to face	L	79	111	111	120	120	140	178	180	
手轮直径(mm) Handwheel diameter	W	100	125	125	160	160	180	200	220	
中心高度(开)(mm) Height	H	-196	321	321	322	359	399	446	480	550
		-46	285	285	287	309	343	396	420	480
流道孔径(mm) Flow port dimension	d	7.5	10.5	13.5	18	24	29	36.5	45	
重量 Weight (Kg)		3.5	6.7	6.7	11	12.3	15.8	28	45	



**CL150-300-600**

螺栓连接低温加长闸盖，缩径，明杆支架(OS&Y)  
末端连接为焊接法兰或对焊连接，设计按API 602  
Bolted bonnet cryogenic extended bonnet, reduced port, OS&Y  
Flanged or butt welded ends; design to API 602

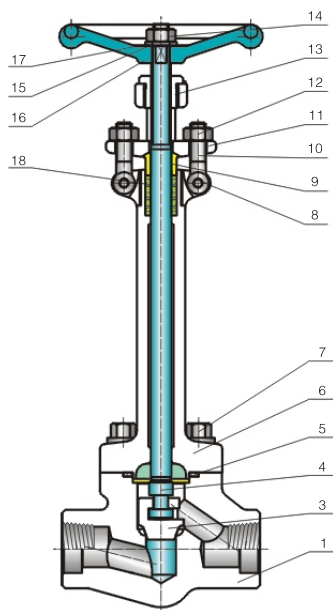
规格 Specification(NPS)			1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2
结构长度 (mm) Face to face	CL150	L(RF)	-	-	108	118	127		165	178
	CL300	L1(BW)	-	-	140	153	165		191	216
	CL600		-	-	165	191	216		241	292
手轮直径(mm) Handwheel diameter	W		-	-	100	100	125	160	160	180
中心高度 (开)(mm) Height	H	-196	-	-	321	322	359	399	446	480
		-46	-	-	285	287	309	343	396	420
流道孔径(mm) Flow port dimension	d		-	-	10.5	13.5	18	24	29	36.5
重量 Weight (Kg)	CL150	R F	-	-	5.0	5.5	8.8	13.5	15	20.3
		BW	-	-						
	CL300	R F	-	-	5.8	7.3	9.7	12.5	19.5	22.3
		BW	-	-						
	CL600	R F	-	-	6.0	8	11.2	13.5	21.5	24.8
		BW	-	-						



**CL1500**

螺栓连接闸盖，缩径，明杆支架(OS&Y)  
末端连接可按螺纹或承插焊或对焊，设计按API 602  
Bolted bonnet cryogenic extended bonnet, full port, OS&Y  
Flanged or butt welded ends; design to API 602

规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2
结构长度(mm) Face to face	L		216	229	254	279	325	368
手轮直径(mm) Handwheel diameter	W		125	125	160	160	180	200
中心高度(开)(mm) Height	H	-196	321	322	359	399	446	480
		-46	285	287	309	343	396	420
流道孔径(mm) Flow port dimension	d		10.5	13.5	18	24	29	36.5
重量 Weight (Kg)			14	23	25.3	35.7	47	72



◆ 应用规范/Application standards

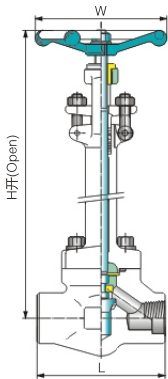
- 1、设计制造 API 602 BS5352 ANSI B16.34;
  - 2、连接端尺寸
    - 1)承插口尺寸按 ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按 ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按 ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按 ANSI B16.5; JB79
  - 3、检查和试验: API 598; GB/T13927; JB/T9092
  - 4、结构特征  
螺栓连接阀盖(B.B)和明杆支架(OS&Y)  
或焊接阀盖(W.B)和明杆支架(OS&Y)
  - 5、材料按 ANSI/ASTM.
  - 6、主体材料  
LF2; LF3; 304(L); 316(L); F347; F321; F51; Monel; 20 合金等.
- 1、Design and manufacture conform to API 602 BS5352 ANSI B16.34;
  - 2、Connection ends conform to:
    - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
    - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
  - 4、Structure features:  
Bolted bonnet, outside screw and yoke  
Welded bonnet, outside screw and yoke
  - 5、Materials conform to ANSI/ASTM.
  - 6、Main materials:  
LF2;LF3;304(L);316(L);F347;F321;F51;Monel;20 Alloy.

◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

◆ 典型零件材料表/Main part materials list

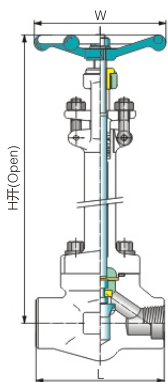
序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	LF2/304	LF3/304	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	-	-	LF2	LF3	F304(L)	F316(L)	F51
2	座圈 Seat ring	-	-	304	304	304(L)	316(L)	F51
3	闸板 Wedge disc	-	-	F304	F304	F304(L)	F316(L)	F51
4	阀杆 Stem	-	-	304	304	304(L)	316(L)	F51
5	垫片 Gasket	-	-	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	316+柔性石墨 316+Flexible graphite	316+柔性石墨 316+Flexible graphite
6	阀盖 Bonnet	-	-	LF2	LF3	F304(L)	F316(L)	F51
7	螺栓 Bolt	-	-	L7	L7	B8	B8	B8
8	销 Pin	-	-	410	410	304	304	304
9	填料压套 Gland	-	-	304	304	304	316	F51
10	活节螺栓 Eyelet bolt	-	-	L7	L7	B8(M)	B8(M)	B8M
11	填料压板 Gland flange	-	-	LF2	LF3	F304	F304	F304
12	六角螺母 Hex nut	-	-	2H	2H	8(M)	8(M)	8M
13	阀杆螺母 Stem nut	-	-	410	410	410	410	410
14	锁紧螺母 Locking nut	-	-	35	35	35	35	35
15	铭牌 Nameplate	-	-	AL	AL	AL	AL	AL
16	手轮 Handwheel	-	-	A197	A197	A197	A197	A197
17	润滑垫片 Lubricating gasket	-	-	410	410	410	410	410
18	填料 Packing	-	-	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite



**CL800**

螺栓连接低温加长阀盖，缩径和全径，明杆支架(OS&Y)  
末端连接可按螺纹或承插焊，设计按 BS5352  
Bolted bonnet cryogenic extended bonnet full port & reduced port, OS&Y  
Threaded or socket welded ends; design to BS5352

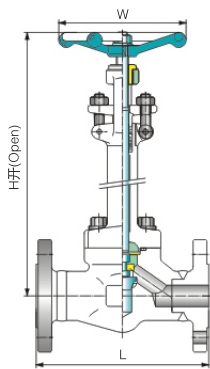
规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2
结构长度(mm) Face to face	L	79	79	92	111	120	152	172	200
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200
中心高度(开)(mm) Height	H	-196°C	390	390	415	430	460	490	505
		-101°C	350	350	400	410	425	450	480
		-46°C	350	350	400	410	425	450	480
流道孔径(mm) Flow port dimension	d	7.0	9.0	13	17.5	23	30	35	46
重量 Weight (Kg)		7.2	7.2	7.2	9.5	10.8	13.5	19.8	29



**CL1500**

螺栓连接低温加长阀盖，缩径和全径，明杆支架(OS&Y)  
末端连接可按螺纹或承插焊，设计按 BS5352  
Bolted bonnet cryogenic extended bonnet full port & reduced port, OS&Y  
Threaded or socket welded ends; design to BS5352

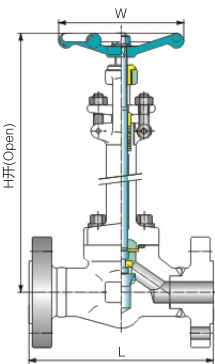
规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2
结构长度(mm) Face to face	L	92	111	111	120	152	172	200	-
手轮直径(mm) Handwheel diameter	W	100	125	125	160	160	180	200	-
中心高度(开)(mm) Height	H	-196°C	370	370	370	410	410	474	546
		-101°C	350	350	400	410	425	450	480
		-46°C	350	350	400	410	425	450	480
流道孔径(mm) Flow port dimension	d	9	12	15	20	28	32	40	-
重量 Weight (Kg)		7.2	9.5	9.5	10.8	13.5	19.8	29	-



**CL150-300-600**

螺栓连接低温加长阀盖，缩径，明杆支架(OS&Y)  
末端连接可按法兰连接或对焊，设计按 BS5352  
Bolted bonnet cryogenic extended bonnet, reduced port, OS&Y  
Flanged or butt welded ends; design to BS5352

规格 Specification(NPS)		R.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2
结构长度 (mm) Face to face	L(RF)	CL150	-	-	108	118	127	-	165	203
	L1(BW)	CL300	-	-	153	178	203	-	229	267
		CL600	-	-	165	191	216	-	241	292
手轮直径(mm) Handwheel diameter	W		-	-	100	100	125	-	160	180
中心高度 (开)(mm) Height	H	-196°C	-	-	390	415	430	-	490	505
		-101°C	-	-	350	400	410	-	450	480
		-46°C	-	-	350	400	410	-	450	480
流道孔径(mm) Flow port dimension	d		-	-	9.0	13	17.5	-	30	35
重量 Weight (Kg)		CL150	-	-	5	5.8	8.6	-	13.8	24.3
		CL300	-	-	5.8	6.8	10.3	-	19.3	25.8
		CL600	-	-	6.3	7.3	10.6	-	20.3	26.8



**CL1500**

螺栓连接低温加长阀盖，全径，明杆支架(OS&Y)  
末端连接可按法兰连接或对焊，设计按 BS5352  
Bolted bonnet cryogenic extended bonnet, full port, OS&Y  
Flanged or butt welded ends; design to BS5352

规格 Specification(NPS)		F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2
结构长度(mm) Face to face	L(RF)		-	-	216	229	254	280	305	368
手轮直径(mm) Handwheel diameter	W		-	-	125	125	160	160	180	200
中心高度(开)(mm) Height	H	-196°C	-	-	370	370	410	410	474	546
		-101°C	-	-	350	400	410	425	450	480
		-46°C	-	-	350	400	410	425	450	480
流道孔径(mm) Flow port dimension	d		-	-	12	15	20	28	32	40



# Forged Steel Bellow Sealed Valve Series

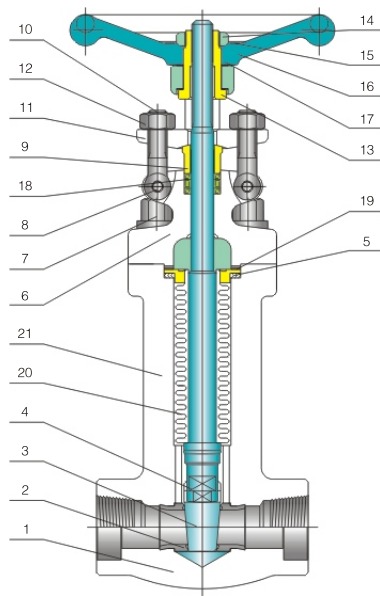
## 锻钢波纹管阀门系列 >>>



N V F Bellow Sealed valves are available in two bonnet designs. The first design is the Bolted Bonnet, with male –female joint, spiral wound gasket, made in F304+flexible graphite. Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available.

### ◆ 采用标准/Standards

- |                                   |   |
|-----------------------------------|---|
| ---全径或缩径                          | ---Full port or reduced port;                             |
| ---明杆支架式(OS&Y);                   | ---Outsied screw and yoke (OS&Y);                         |
| ---自定心压板压套式;                      | ---Self-centering gland and flange;                       |
| ---螺栓连接、缠绕垫片密封式阀盖;                | ---Bolted bonnet with spiral-wound gasket sealing bonnet; |
| ---螺纹连接、全焊密封式阀盖;                  | ---Threaded with full welding seal bonnet;                |
| ---承插端符合ASME B16.11;              | ---Socket welded ends to ASME B16.11;                     |
| ---螺纹连接端(NPT)符合ANSI/ASME B1.20.1. | ---Screwed ends(NPT) to ANSI/ASME B1.20.1.                |



### ◆ 应用规范/Application standards

- 1、设计制造API 602; MSS-SP-117
  - 2、连接端尺寸
    - 1)承插口尺寸按ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按 ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按ANSI B16.5; JB79
  - 3、检查和试验: API 598; GB/T13927; JB/T9092
  - 4、结构特征
    - 螺栓连接阀盖 (B.B)和明杆支架 (OS & Y)
    - 或焊接阀盖(W.B)和明杆支架(OS & Y)
  - 5、材料按 ANSI/ASTM的规定。
  - 6、主体材料: A105; 304(L); 316(L); F347; F321.
  - 7、波纹管材料: 304、321、316、Inconel 625、Hastelloy、C 276、Monel等。
- 
- 1、Design and manufacture conform to API 602;MSS-SP-117
  - 2、Connection ends conform to:
    - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
    - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
  - 4、Structure features:
    - Bolted bonnet, outside screw and yoke
    - Welded bonnet, outside screw and yoke
  - 5、Materials conform to ANSI/ASTM
  - 6、Main materials:A105;304(L);316(L);F347;F321.
  - 7、Bellow materials:304,321,316,Inconel 625,Hastelloy,C 276,Monel

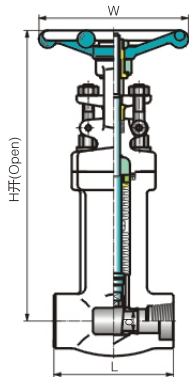
### ◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

### ◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/Fa6HFS	A105/F6aHF	F304(L)/304(L)	F316(L)/316(L)
1	阀体 Body	A105	A105	A105	F304(L)	F316(L)
2	阀座 Seat	410	410HF	410HF	304(L)	316(L)
3	闸板 Wedge disc	F6a	F6a	F6aHF	F304(L)	F316(L)
4	阀杆 Stem	410	410	410	304(L)	316(L)
5	垫片 Gasket	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite
6	阀盖 Bonnet	A105	A105	A105	F304(L)	F316(L)
7	螺栓 Bolt	B7	B7	B7	B8	B8
8	销 Pin	410	410	410	304	304
9	填料压套 Gland	410	410	410	304	316
10	活节螺栓 Eyelet bolt	B7	B7	B7	B8(M)	B8(M)
11	填料压板 Gland flange	A105	A105	A105	F304	F304
12	六角螺母 Hex nut	2H	2H	2H	8(M)	8(M)
13	阀杆螺母 Stem nut	410	410	410	410	410
14	锁紧螺母 Locking nut	35	35	35	35	35
15	铭牌 Nameplate	AL	AL	AL	AL	AL
16	手轮 Handwheel	A197	A197	A197	A197	A197
17	润滑垫片 Lubricating gasket	410	410	410	410	410
18	填料 Packing	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite
19	垫片 Gasket	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite
20	波纹管 Bellow	F321	F321	F321	F316L	F316L

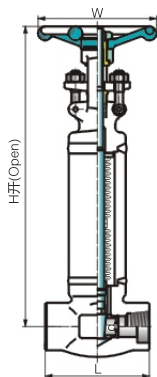
螺栓阀盖，缩径和全径，明杆支架(OS & Y).  
末端连接为螺纹或承插焊或对焊，设计按API 602、MSS-SP-117  
Bolted bonnet, full port & reducing port outside screw and yoke(OS & Y).  
Threaded, butt-welded or socket welded ends; design to API602/MSS-SP-117



**CL800**

规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
结构长度(mm) Face to face	L	79	79	92	111	120	120	140
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180
中心高度(开)(mm) Height	H	255	255	285	345	445	545	594
流道孔径(mm) Flow port dimension	d	7.5	10.5	13.5	18	24	29	36.5
重量 Weight (Kg)		3.0	3.0	3.3	5.9	8.7	10.2	16.2

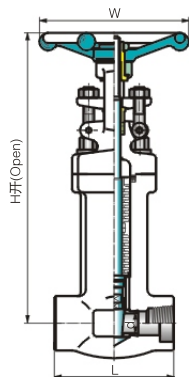
焊接阀盖，缩径和全径，明杆支架(OS & Y).  
末端连接为螺纹或承插焊或对焊，设计按API 602、MSS-SP-117  
Welded bonnet, full port & reducing port outside screw and yoke(OS & Y).  
Threaded, butt-welded or socket welded ends; design to API 602/MSS-SP-117



**CL800**

规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
结构长度(mm) Face to face	L	79	79	92	111	120	120	140
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180
中心高度(开)(mm) Height	H	248	548	777	335	437	537	585
流道孔径(mm) Flow port dimension	d	7.5	10.5	13.5	18	24	29	36.5
重量 Weight (Kg)		2.9	2.9	3.2	4.6	7.2	8.9	15.5

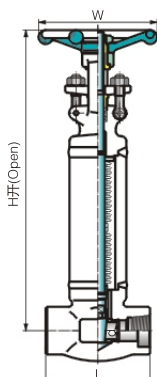
螺栓阀盖，缩径和全径，明杆支架(OS & Y).  
末端连接为螺纹或承插焊或对焊，设计按API 602、MSS-SP-117  
Bolted bonnet, full port & reducing port outside screw and yoke(OS & Y).  
Threaded, butt-welded or socket welded ends; design to API602/MSS-SP-117



**CL1500**

规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
结构长度(mm) Face to face	L	79	111	111	120	120	140	178
手轮直径(mm) Handwheel diameter	W	100	125	125	160	160	180	180
中心高度(开)(mm) Height	H	294	264	320	379	478	607	636
流道孔径(mm) Flow port dimension	d	7.5	10.5	13.5	18	24	29	36.5
重量 Weight (Kg)		3.1	5.1	5.1	9.0	10.5	16.7	21

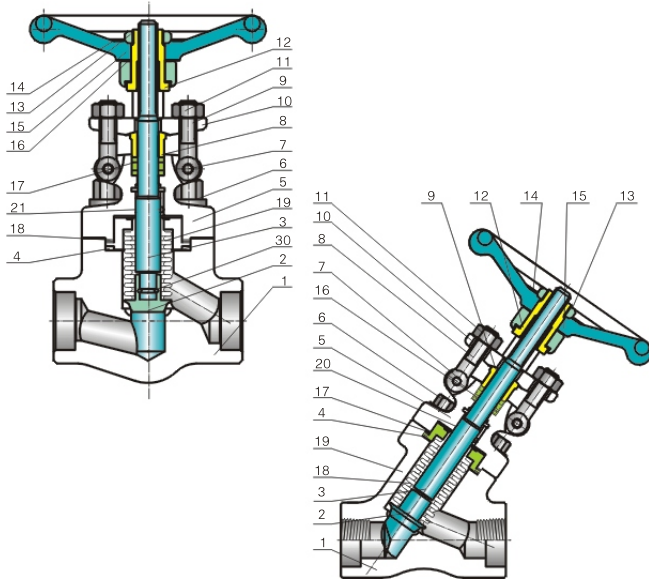
焊接阀盖，缩径和全径，明杆支架(OS & Y).  
末端连接为螺纹或承插焊或对焊，设计按API 602、MSS-SP-117  
Welded bonnet, full port & reducing port outside screw and yoke(OS & Y).  
Threaded, butt-welded or socket welded ends; design to API602/MSS-SP-117



**CL1500**

规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
结构长度(mm) Face to face	L	79	111	111	120	120	140	178
手轮直径(mm) Handwheel diameter	W	100	125	125	160	160	180	180
中心高度(开)(mm) Height	H	287	287	312	368	465	595	627
流道孔径(mm) Flow port dimension	d	7.5	10.5	13.5	18	24	29	36.5
重量 Weight (Kg)		2.9	4.7	4.7	5.7	7.4	16	19

# 短型波纹管截止阀 SHORT PATTERN BELLOW SEAL GLOBE VALVES



## ◆ 应用规范/Application standards

- 1、设计制造BS5352; MSS-SP-117
  - 2、连接端尺寸
    - 1)承插口尺寸按ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按 ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按ANSI B16.5; JB79
  - 3、检查和试验: API 598; GB/T13927; JB/T9092
  - 4、结构特征
    - 螺栓连接阀盖 (B.B)和明杆支架 (OS & Y)
    - 或焊接阀盖(W.B)和明杆支架(OS & Y)
  - 5、材料按 ANSI/ASTM的规定。
  - 6、主体材料: A105; LF2; F5; F11; F22304(L); 316(L); F347; F321; F51; Monel; 20合金等。
  - 7、波纹管材料: 304、321、316、Inconel 625、Hastelloy、C 276、Monel等。
- 1、Design and manufacture conform to BS5352;MSS-SP-117
  - 2、Connection ends conform to:
    - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
    - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
  - 4、Structure features:
    - Bolted bonnet, outside screw and yoke
    - Welded bonnet, outside screw and yoke
  - 5、Materials conform to ANSI/ASTM
  - 6、Main materials:
    - A105;LF2;F5;F11;F22304(L);316(L);F347;F321;F51;Monel;20Alloy.
  - 7、Bellow materials:304,321,316,Inconel 625,Hastelloy,C 276,Monel

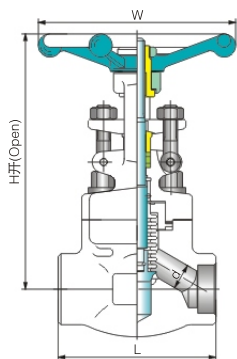
## ◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

## ◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	A105/F6aHF	F304(L)/304(L)	F316(L)/316(L)
1	阀体 Body	A105	A105+HF	A105+HF	F304(L)	F316(L)
2	阀瓣 Disc	F6a	F6a	F6aHF	F304(L)	F316(L)
3	阀杆 Stem	410	410	410	304(L)	316(L)
4	垫片 Gasket	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	316+柔性石墨 316+Flexible graphite
5	阀盖 Bonnet	A105	A105	A105	F304(L)	F316(L)
6	螺栓 Bolt	B7	B7	B7	B8(M)	B8(M)
7	销轴 Pin	410	410	410	304	304
8	填料压套 Packing bushing	410	410	410	304	316
9	活节螺母 Eyelet bolt	B7	B7	B7	B8(M)	B8(M)
10	填料压盖 Packing gland	A105	A105	A105	F304	F304
11	六角螺母 Hex nut	2H	2H	2H	8(M)	8(M)
12	阀杆螺母 Stem nut	410	410	410	410	410
13	锁紧螺母 Locking nut	35	35	35	35	35
14	铭牌 Nameplate	AL	AL	AL	AL	AL
15	手轮 Handwheel	A197	A197	A197	A197	A197
16	润滑垫片 Lubricating gasket	410	410	410	410	410
17	填料 Packing	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite
18	垫片 Gasket	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite
19	波纹管 Bellow	F321	F321	F321	F321/304L	F316/316L
20	钢丝 Steel wire	304	304	304	304	316
21	销 Pin	304	304	304	304	316

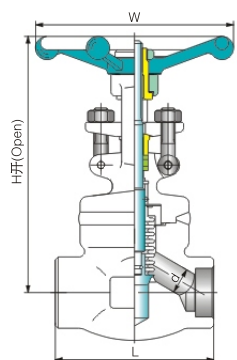
螺栓连接阀盖，缩径和全径，明杆支架 (OS & Y)  
末端连接为螺纹或承插焊，设计按BS5352、MSS-SP-117  
Bolted bonnet, full port & reducing port outside screw and yoke(OS & Y).  
Threaded, butt-welded or socket welded ends; design to BS5352/MSS-SP-117



**CL800**

规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	79	79	92	111	120	152	172	200	
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	
中心高度(开)(mm) Height	H	162	162	164	200	220	257	295	350	
流道孔径(mm) Flow port dimension	d	7.0	9.0	13	17.5	23	30	35	46	
重量 Weight (Kg)		2.3	2.4	2.5	4.35	5.75	7.8	12.5	17.5	

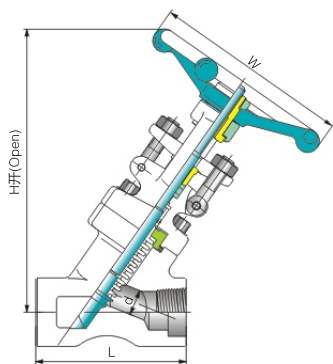
焊接连接阀盖，缩径和全径，明杆支架 (OS & Y)  
末端连接为螺纹或承插焊，设计按BS5352、MSS-SP-117  
Welded bonnet, full port & reducing port outside screw and yoke(OS & Y).  
Threaded, butt-welded or socket welded ends; design to BS5352、MSS-SP-117



**CL800**

规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	79	79	92	111	120	152	172	200	
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	
中心高度(开)(mm) Height	H	162	162	164	200	220	257	295	350	
流道孔径(mm) Flow port dimension	d	7.0	9.0	13	17.5	23	30	35	46	
重量 Weight (Kg)		1.7	1.8	1.9	3.3	5.2	6.8	10.6	13.8	

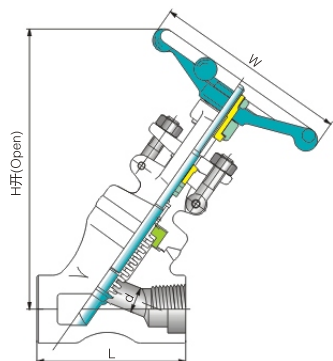
螺栓连接阀盖，缩径和全径，明杆支架 (OS & Y)  
末端连接为螺纹或承插焊或对焊，设计按BS5352、MSS-SP-117  
Bolted bonnet, full port & reducing port outside screw and yoke(OS & Y).  
Threaded, butt-welded or socket welded ends; design to BS5352、MSS-SP-117



**CL800**

规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	98	98	98	111	140	140	155	170	
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	
中心高度(开)(mm) Height	H	180	180	180	188	280	280	295	350	
流道孔径(mm) Flow port dimension	d	7	9	13	17.5	23	30	35	46	
重量 Weight (Kg)		2.6	2.6	3.8	4.6	9.3	9.3	14	19.6	

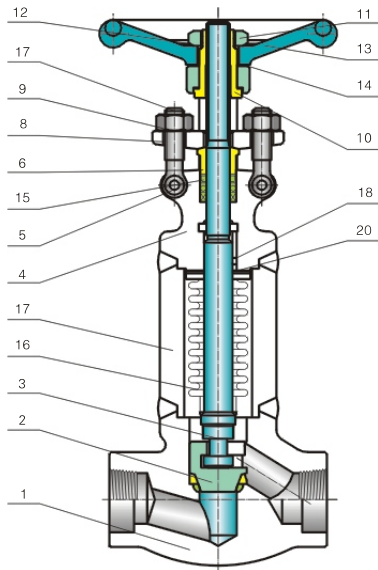
焊接连接阀盖，缩径和全径，明杆支架 (OS & Y)  
末端连接为螺纹或承插焊或对焊，设计按BS5352、MSS-SP-117  
Welded bonnet, full port & reducing port outside screw and yoke(OS & Y).  
Threaded, butt-welded or socket welded ends; design to BS5352、MSS-SP-117



**CL800**

规格 Specification(NPS)	R.P	-	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	79	79	92	100	140	140	155	170	
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	
中心高度(开)(mm) Height	H	198	198	198	207	280	280	295	350	
流道孔径(mm) Flow port dimension	d	7	9	13	17.5	23	30	35	46	
重量 Weight (Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	16	

# 波纹管截止阀 BELLOWS SEALED GLOBE VALVES



## ◆ 应用规范/Application standards

- 1、设计制造API 602; MSS-SP-117
  - 2、连接端尺寸
    - 1)承插口尺寸按ANSI B16.11; JB/T1751
    - 2)螺纹端尺寸按ANSI B1.20.1; JB/T7306
    - 3)对焊端尺寸按ANSI B16.25; JB/T12224
    - 4)法兰端尺寸按ANSI B16.5; JB79
  - 3、检查和试验: API 598; GB/T13927; JB/T9092
  - 4、结构特征
    - 螺栓连接阀盖(B.B)和明杆支架(OS & Y)
    - 或焊接阀盖(W.B)和明杆支架(OS & Y)
  - 5、材料按ANSI/ASTM的规定。
  - 6、主体材料: A105; 304(L); 316(L); F347; F321。
  - 7、波纹管材料: 304、321、316、Inconel 625、Hastelloy、C 276、Monel等。
- 
- 1、Design and manufacture conform to API 602; MSS-SP-117
  - 2、Connection ends conform to:
    - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
    - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
    - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
    - 4)Flanged ends conform to ANSI B16.5;JB79
  - 3、Test and inspection conform to:API 598;GB/T13927;JB/T9092
  - 4、Structure features:
    - Bolted bonnet, outside screw and yoke
    - Welded bonnet, outside screw and yoke
  - 5、Materials conform to ANSI/ASTM
  - 6、Main materials:A105;304(L);316(L);F347;F321.
  - 7、Bellow materials:304,321,316,Inconel 625,Hastelloy,C 276,Monel

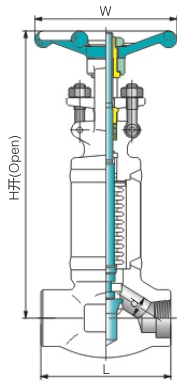
## ◆ 碳钢温压等级/Carbon steel temperature-pressure rate

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

## ◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/F6aHFS	A105/F6aHF	F304(L)/304(L)	F316(L)/316(L)
1	阀体 Body	A105	A105+HF	A105+HF	F304(L)	F316(L)
2	阀瓣 Disc	F6a	F6a	F6aHF	F304(L)	F316(L)
3	垫片 Stem	410	410	410	304(L)	316(L)
4	螺栓 Bonnet	A105	A105	A105	F304(L)	F316(L)
5	销轴 Pin	410	410	410	304	304
6	填料压套 Gland	410	410	410	304	316
7	活节螺栓 Eyelet bolt	B7	B7	B7	B8(M)	B8(M)
8	填料压盖 Gland flange	A105	A105	A105	F304	F304
9	六角螺母 Hex nut	2H	2H	2H	8(M)	8(M)
10	阀杆螺母 Stem nut	410	410	410	410	410
11	锁紧螺母 Locking nut	35	35	35	35	35
12	铭牌 Nameplate	AL	AL	AL	AL	AL
13	手轮 Handwheel	A197	A197	A197	A197	A197
14	润滑垫片 Lubricating gasket	410	410	410	410	410
15	填料 Packing	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite
16	波纹管 Bellow	F321	F321	F321	F316	F316L
17	接管 Coupling pipe	A105	A105	A105	A304(L)	A316(L)
18	销 Pin	304	304	304	304	316

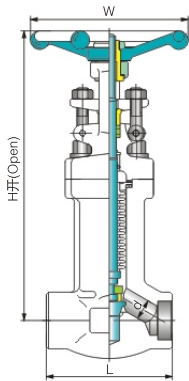
焊接连接阀盖，缩径和全径，明杆到架(OS & Y)  
末端连接为螺纹或承插焊，设计BS5352、MSS-SP-117  
Welded bonnet, full port & reducing port outside screw and yoke(OS & Y)  
Threaded, butt-welded or socket welded ends; design to BS5352/MSS-SP-117



**CL800**

规格 Specification(NPS)	R.P	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3	
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	79	79	92	111	120	152	172	200	
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	
中心高度(开)(mm) Height	H	237	237	239	270	298	340	395	470	
流道孔径(mm) Flow port dimension	d	7.0	9.0	13	17.5	23	30	35	46	
重量 Weight (Kg)		2.5	2.6	2.7	4.4	6.7	8.8	15	18.8	

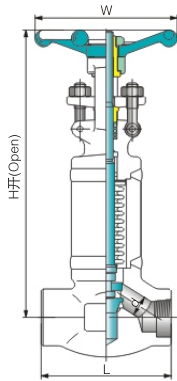
螺栓连接阀盖，缩径和全径，明杆支架(OS & Y)  
末端连接为螺纹或承插焊，设计BS5352、MSS-SP-117  
Bolted bonnet, full port & reducing port outside screw and yoke(OS & Y)  
Threaded, butt-welded or socket welded ends; design to BS5352/MSS-SP-117



**CL800**

规格 Specification(NPS)	R.P	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3	
	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>
结构长度(mm) Face to face	L	79	79	92	111	120	152	172	200	
手轮直径(mm) Handwheel diameter	W	100	100	100	125	160	160	180	200	
中心高度(开)(mm) Height	H	237	237	239	270	298	340	395	470	
流道孔径(mm) Flow port dimension	d	7.0	9.0	13	17.5	23	30	35	46	
重量 Weight (Kg)		3.1	3.3	4.2	5.5	7.25	9.8	16	21	

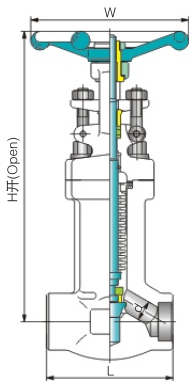
焊接连接阀盖，全径，明杆支架(OS & Y)末  
端连接为螺纹或承插焊，设计按BS5352、MSS-SP-117  
Welded bonnet, full port outside screw and yoke(OS & Y)  
Threaded, butt-welded or socket welded ends; design to BS5352/MSS-SP-117



**CL1500**

规格 Specification(NPS)	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2
	结构长度(mm) Face to face	L	92	92	111	111	120	152	172
手轮直径(mm) Handwheel diameter	W	100	100	125	125	160	160	180	200
中心高度(开)(mm) Height	H	290	330	380	380	400	450	520	650
流道孔径(mm) Flow port dimension	d	7	9	12	15	20	28	32	40
重量 Weight (Kg)		3.3	3.5	5	7.5	10	16	27	30

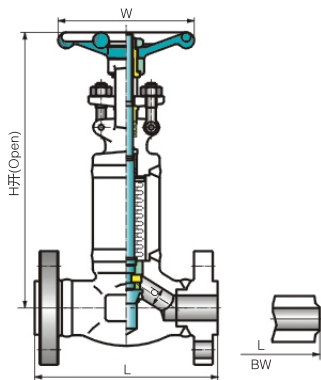
螺栓连接阀盖，全径，明杆支架(OS & Y)  
末端连接为螺纹或承插焊，设计按BS5352、MSS-SP-117  
Bolted bonnet, full port outside screw and yoke(OS & Y)  
Threaded, butt-welded or socket welded ends; design to BS5352/MSS-SP-117



**CL1500**

规格 Specification(NPS)	F.P	1/4	3/8	1/2	3/4	1	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2
	结构长度(mm) Face to face	L	92	92	111	111	120	152	172
手轮直径(mm) Handwheel diameter	W	100	100	125	125	160	160	180	200
中心高度(开)(mm) Height	H	290	330	380	380	400	450	520	650
流道孔径(mm) Flow port dimension	d	7	9	12	15	20	28	32	40
重量 Weight (Kg)		3.3	3.5	5	7.5	10	16	27	30

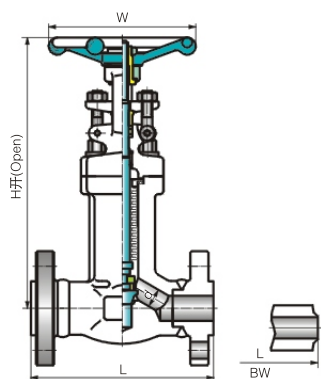
# 波纹管截止阀 BELLOWS SEALED GLOBE VALVES



## CL150-300-600

焊接连接阀盖，缩径，明杆支架 (OS & Y)  
 末端连接为连接法兰或对焊，设计按BS5352、MSS-SP-117  
 Welded bonnet, reducing port outside screw and yoke(OS & Y)  
 Flange- or butt-welded ends; design to BS5352/MSS-SP-117

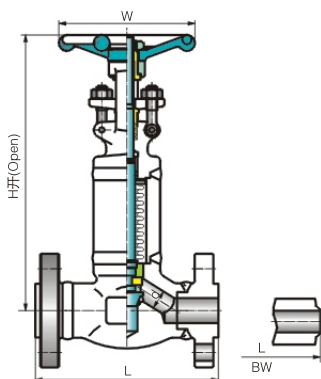
规格 Specification(NPS)		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度 (mm) Face to face	CL150	L(RF) L1(BW)	-	-	108	117	127	140	165	203
	CL300		-	-	152	178	203	216	229	267
	CL600		-	-	165	190	216	229	241	292
手轮直径(mm) Handwheel diameter		W	-	-	100	100	125	160	160	180
中心高度 (开)(mm) Height	CL150/CL300	H	-	-	340/350	340/350	360/375	380/400	450/470	540/570
	CL600		-	-	360	360	390	430	500	600
流道孔径(mm) Flow port dimension		d	-	-	9	13	17.5	23	30	35
重量 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



## CL150-300-600

螺栓连接阀盖，缩径，明杆支架 (OS & Y)  
 末端连接为连接法兰或对焊连接，设计按BS5352、MSS-SP-117  
 Bolted bonnet, reducing port outside screw and yoke(OS & Y)  
 Flange- or butt-welded ends; design to BS5352/MSS-SP-117

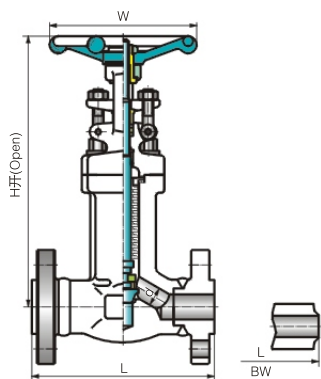
规格 Specification(NPS)		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度 (mm) Facetoface	CL150	L(RF) L1(BW)	-	-	108	117	127	140	165	203
	CL300		-	-	152	178	203	216	229	267
	CL600		-	-	165	190	216	229	241	292
手轮直径(mm) Handwheel diameter		W	-	-	100	100	125	160	160	180
中心高度 (开)(mm) Height	CL150/CL300	H	-	-	340/350	340/350	360/375	380/400	450/470	540/570
	CL600		-	-	360	360	390	430	500	600
流道孔径(mm) Flow port dimension		d	-	-	9	13	17.5	23	30	35
重量 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



## CL1500

焊接连接阀盖，全径，明杆支架 (OS & Y)  
 末端连接为连接法兰或对焊连接，设计按BS5352、MSS-SP-117  
 Welded bonnet, full port outside screw and yoke(OS & Y)  
 Flange- or butt-welded ends; design to BS5352/MSS-SP-117

规格 Specification(NPS)		F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L(RF),L1(BW)				216	229	254	280	305	368
	L(RTJ)				216	229	254	280	305	371
手轮直径(mm) Handwheel diameter		W			125	125	160	160	180	200
中心高度(开)(mm) Height		H			380	380	400	450	520	650
流道孔径(mm) Flow port dimension		d			12	15	20	28	32	40
重量 Weight (Kg)					11.1	11.8	14.1	16.5	23.8	37.5



## CL1500

螺栓连接阀盖，全径，明杆支架 (OS & Y)  
 末端连接法兰连接或对焊连接，设计按BS5352、MSS-SP-117  
 Bolted bonnet, full port outside screw and yoke(OS & Y)  
 Flange- or butt-welded ends; design to BS5352/MSS-SP-117

规格 Specification(NPS)		F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度(mm) Face to face	L(RF),L1(BW)		-	-	216	229	254	280	305	368
	L(RTJ)		-	-	216	229	254	280	305	371
手轮直径(mm) Handwheel diameter		W	-	-	125	125	160	160	180	200
中心高度(开)(mm) Height		H	-	-	380	380	400	450	520	650
流道孔径(mm) Flow port dimension		d	-	-	12	15	20	28	32	40
重量 Weight (Kg)			-	-	11.6	12.3	15	17.5	25	38.3



## Forging Steel Supercritical Power Plant Valve 锻钢超临界电站阀系列 >>>

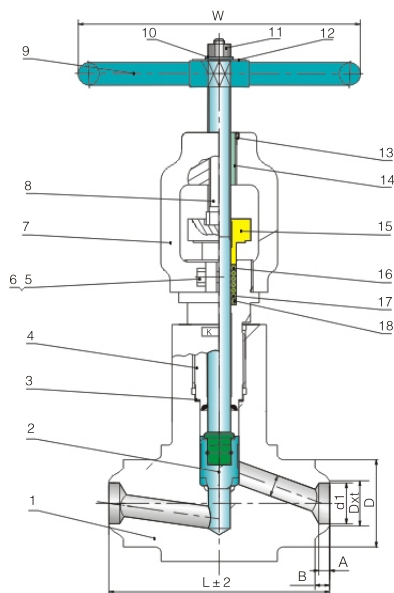


N V F What European Ram forging steel Y the T power plant cut-off valve uses is the cavity pressure the design structural style which welds from the seal valve chest valve cover seal. Enhanced valve's overall pressure resistance intensity. What the valve core and valve lever's the connection uses is rolling bearing's design form. Prevents because the pressure produces the valve core holds the dead phenomenon in the valve chest. Packing box's place design live load padding's form, enhanced packing box's place dense to seal the performance to reduce valve's operation moment of force.

### ◆ 采用标准/Standards

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>--- 缩径阀门</li> <li>--- 内腔压力自密封. 阀体阀盖密封焊接</li> <li>--- 填料函处采用活载填料形式</li> <li>--- 对焊端符合ANSI B 16.34</li> </ul> | <ul style="list-style-type: none"> <li>--- Reducing valve</li> <li>--- Cavity pressure from seal. The valve chest valve cover seal welding</li> <li>--- Packing box place uses the live load padding form</li> <li>--- Butt welding end to conform to ansi b 16.34</li> </ul> |
|--|---|

# T型锻钢超临界电站阀 FORGING STEEL SUPERCRITICAL POWER PLANT VALVE



## ◆ 技术性能/Technical performance

公称通径: 3/8~4"  
公称压力: 2500Lb  
壳体试验压力: 64.7MPa  
密封试验压力: 50.8MPa  
气密封实验压力: 0.6MPa  
使用温度: -29~570°C  
使用介质: 水, 蒸气  
主体材料: 12Cr1MoV

Nominal size: 3/8~4"  
Nominal pressure: 2500Lb  
Shell test pressure: 64.7MPa  
Pressure testing pressure: 50.8MPa  
Smad the seal experiment pressure: 0.6MPa  
Application temperature: -29~570°C  
Use medium: Water, vapor  
Main materials: 12Cr1MoV

## ◆ 设计依据/Design basis

设计与制造: ASME B16.34, JB/T3595, E101  
Design and manufacture: ASME B16.34, JB/T3595, E101

## ◆ 技术条件/Engineering factor

- 1、制造和检验按JB/T3595和E101, ANSI B16.34规定
- 2、装配按Q/DJ104.1规定。
- 3、检查和试验按JB/T3595规定, 并用液体作50.8MPa高压密封试验, 用0.6MPa气体作气密封试验。
- 4、涂漆按JB/T1615规定, 底漆为C06-1, 面漆为C61-51。
- 5、防锈按Q/DJ104.15规定。
- 6、阀体(件1)K处用10号字体(Q/DJ5)打印制造厂名/当天检查合格的阀门编号/年/月/日。

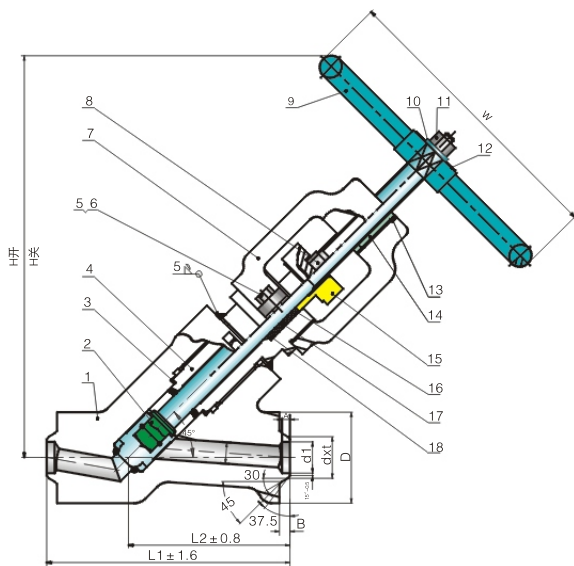
- 1, the manufacture and the examination stipulate
- 2, the assembly according to JB/T3595 and E101, ANSI B16.34 according to the Q/DJ104.1 stipulation.
- 3, the inspection and the experiment stipulated according to JB/T3595 that and performs the 50.8MPa high pressure pressure testing with the liquid, makes a great effort the pressure testing with the 0.6MPa gas.
- 4, the coating stipulated according to JB/T1615 that the primer is C06-1, the finish coat is C61-51.
- 5, rust prevention according to the Q/DJ104.15 stipulation.
- 6, the valve chest (1) K place inspects a qualified valve serial number/year/month of/day with 10 typeface (Q/DJ5) printing manufacture plant name/same day.

公称通径 Nominal size	d0	d1	dxt	D	A	B	H开 (Opening)	H关 (Pass)	W	重量 Weight (Kg)
4"	42.9	80.06	114.3x17.12	122	25.7	34.2	503	474	406	63.0
3"	42.9	58.42	88.9x15.24	122	22.9	30.5	503	474	406	63.0
2-1/2"	31	60	76x8.0	122	12	16	503	474	406	63.0
2"	24	42.8	60.3x8.75	102	13.1	17.5	441	427	363	37.8
1-1/2"	18	36	48x6.0	81	9.0	12	338	320	216	15.8
1-1/4"	16.5	31	42x5.5	81	8.3	11	338	320	216	15.8
1"	15	28	38x3.5	60	7.5	10	313	298	216	13.0
3/4"	13	21	28x3.5	60	5.3	7	313	298	216	13.0
3/8"	9	11	16x25	60	3.8	5	305	288	216	13.0

◆ **技术性能/Technical performance**

公称通径: 3/8~4"  
公称压力: 2500Lb  
壳体试验压力: 64.7MPa  
密封试验压力: 50.8MPa  
气密封实验压力: 0.6MPa  
使用温度: -29~570℃  
使用介质: 水, 蒸气  
主体材料: 12Cr1MoV

Nominal size: 3/8~4"  
Nominal pressure: 2500Lb  
Shell test pressure: 64.7MPa  
Pressure testing pressure: 50.8MPa  
Seal the seal experiment pressure: 0.6MPa  
Application temperature: -29~570℃  
Use medium: Water, vapor  
Main materials: 12Cr1MoV



◆ **设计依据/Design basis**

设计与制造: ASME B16.34, JB/T3595, E101  
Design and manufacture: ASME B16.34, JB/T3595, E101

◆ **技术条件/Engineering factor**

- 1、制造和检验按JB/T3595和E101, ANSI B16.34规定
- 2、装配按Q/DJ104.1规定。
- 3、检查和试验按JB/T3595规定, 并用液体作50.8MPa高压密封试验, 用0.6MPa气体作气密封试验。
- 4、涂漆按JB/T1615规定, 底漆为C06-1, 面漆为C61-51。
- 5、防锈按Q/DJ104.15规定。
- 6、阀体(件1)K处用10号字体(Q/DJ5)打印制造厂名/当天检查合格的阀门编号/年/月/日。

- 1, the manufacture and the examination stipulate
- 2, the assembly according to JB/T3595 and E101, ANSI B16.34 according to the Q/DJ104.1 stipulation.
- 3, the inspection and the experiment stipulated according to JB/T3595 that and performs the 50.8MPa high pressure pressure testing with the liquid, makes a great effort the pressure testing with the 0.6MPa gas.
- 4, the coating stipulated according to JB/T1615 that the primer is C06-1, the finish coat is C61-51.
- 5, rust prevention according to the Q/DJ104.15 stipulation.
- 6, the valve chest (1) K place inspects a qualified valve serial number/year/month of/day with 10 typeface (Q/DJ5) printing manufacture plant name/ same day.

公称通径 Nominal size	d0	d1	dxt	D	A	B	L1	L2	H开 (Opening)	H关 (Pass)	W	重量 Weight (Kg)
4"	42.9	80.06	114.3x17.12	122	25.7	34.2	224	325	503	474	406	63.0
3"	42.9	58.42	88.9x15.24	122	22.9	30.5	224	325	503	474	406	63.0
2-1/2"	31	60	76x8.0	122	12	16	224	325	503	474	406	63.0
2"	24	42.8	60.3x8.75	102	13.1	17.5	179	272	441	427	363	37.8
1-1/2"	18	36	48x6.0	81	9.0	12	122	170	338	320	216	15.8
1-1/4"	16.5	31	42x5.5	81	8.3	11	122	170	338	320	216	15.8
1"	15	28	38x3.5	60	7.5	10	102	152	313	298	216	13.0
3/4"	13	21	28x3.5	60	5.3	7	102	152	313	298	216	13.0
3/8"	9	11	16x25	60	3.8	5	102	152	305	288	216	13.0

# Forged Steel Y Strainer Series

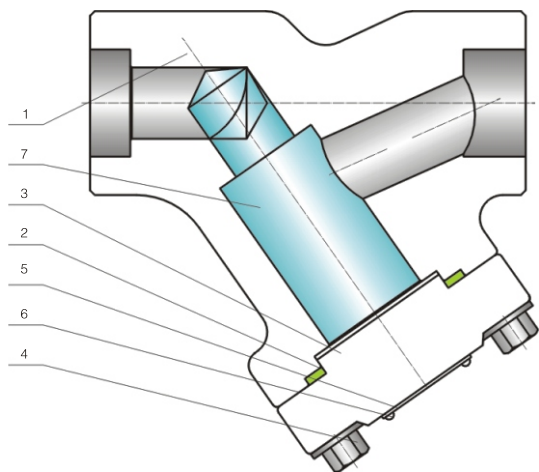
锻钢Y型过滤器系列 >>>



N V F Forged steel Y type strainer, bolted bonnet, gasket adopt spiral wound(304+flexible graphite)or metal ring seal.

## ◆ 采用标准/Standards

- |                                    |   |
|------------------------------------|---|
| ---全径或缩径;                          | ---Full port or reduced port;                     |
| ---螺栓连接、缠绕垫片密封式阀盖;                 | ---Bolted bonnet spiral wound gasket seal bonnet; |
| ---承插端符合 ASME B16.11;              | ---Socket weld ends to ASME B16.11;               |
| ---螺纹连接端(NPT)符合 ANSI/ASME B1.20.1; | ---Screwed ends (NPT) to ANSI/ASME B1.20.1;       |
| ---可设有排放堵塞, 可更换式过滤网。               | ---Equip blow down tap and renewable strainer.    |



\*客户订货时需提供过滤网的目数  
\*如需提供排放堵塞须与OULAM销售人员说明  
\*Please offer the mesh of strainer  
\*If you want to equip with, you contract with our sale department

◆ 应用规范/Application standards

- 设计制造: BS5352 MSS SP-118;
- 连接端尺寸:
  - 承插口尺寸按 ANSI B16.11; JB/T1751
  - 螺纹端尺寸按 ANSI B1.20.1; JB/T7306
  - 对焊端尺寸按 ANSI B16.25; JB/T12224
  - 法兰端尺寸按 ANSI B16.5; JB79
- 阀门检查和试验: API 598; GB/T13927; JB/T9092
- 结构特征: 螺栓连接阀盖(B.B)焊接阀盖(W.B)
- 材料按 ANSI/ASTM.的规定。
- 主体材料:
 

A105; LF2; F5; F11; F22; 304(L); 316(L);  
F347; F321; F51; Monel; 20合金等。

◆ 碳钢温压等级

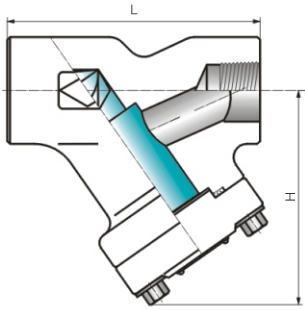
Carbon steel temperature-pressure rate

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

◆ 典型零件材料表/Main part materials list

序号NO.	零件名称 Part name	A105/F6a	A105/Fa6HFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	阀体 Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	垫片 Gasket	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite	304+柔性石墨 304+Flexible graphite
3	阀盖 Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
4	螺栓 Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
5	铭牌 Nameplate	AL	AL	AL	AL	AL	AL	AL
6	铆钉 Rivet	H62	H62	H62	H62	H62	H62	H62
7	过滤网 Filter screen	304	304	304	304	304(L)	316(L)	316(L)

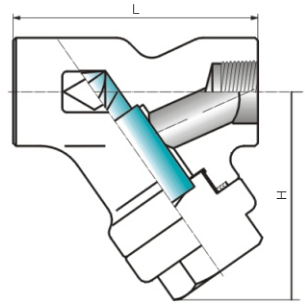
# Y型过滤器 Y-TYPE STRAINERS



## CL800

螺栓阀盖，缩径和全径。  
末端连接为螺纹或承插焊或对焊，设计按:BS5352  
Bolted bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to Bs5352

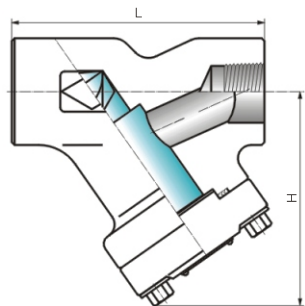
规格(NPS) Specification	缩径(R.P)		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	全径(F.P)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
结构长度 (mm) Face to face	L	98	98	98	111	140	140	155	170	
中心高度(开) (mm) Height	H	70	70	70	100	110	120	120	150	
流道孔径 (mm) Height(angle dimension)	d	7	9	13	17.5	30	30	35	46	
重量(约)(Kg) Weight		2.2	2.2	2.1	4.2	8.9	8.9	10	18.6	



## CL800

螺纹阀盖，缩径和全径。  
末端连接为螺纹或承插焊或对焊，设计按:BS5352  
Screwed bonnet, full port and reducing port  
Threaded, butt-welded or socket welded ends; design to Bs5352

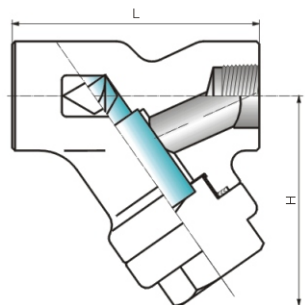
规格(NPS) Specification	缩径(R.P)		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	全径(F.P)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
结构长度 (mm) Face to face	L	79	79	92	100	140	140	155	170	
中心高度(开) (mm) Height	H	65	65	65	95	105	110	110	140	
流道孔径 (mm) Height(angle dimension)	d	7	9	13	17.5	23	30	35	46	
重量(约)(Kg) Weight		1.8	1.8	2.0	3.5	9	8.0	12	16	



## CL900-CL1500

螺栓阀盖，全径。  
末端连接为螺纹或承插焊，设计按:BS5352  
Bolted bonnet, full port  
Threaded, butt-welded or socket welded ends; design to Bs5352

规格(NPS) Specification	全径(F.P)		3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度 (mm) Face to face	L		98	111	111	140	140	155	170
中心高度(开) (mm) Height	H		70	70	100	110	120	120	150
流道孔径 (mm) Height(angle dimension)	d		9	12	15	20	28	32	40
重量(约)(Kg) Weight			2.1	4.2	9	8.9	10	18.6	20



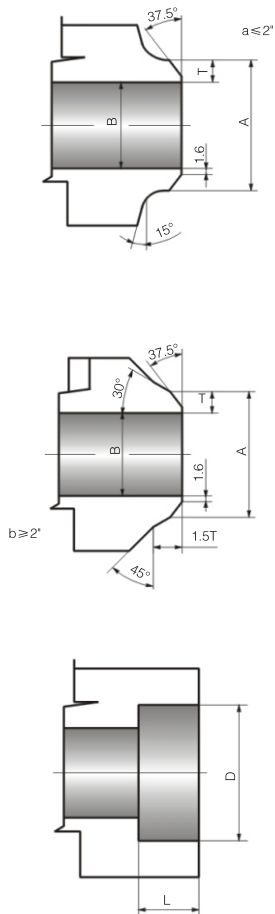
## CL900-CL1500

螺纹阀盖，全径。  
末端连接为螺纹或承插焊，设计按:BS5352  
Screwed bonnet, full port  
Threaded, butt-welded or socket welded ends; design to Bs5352

规格(NPS) Specification	全径(F.P)		3/8	1/2	3/4	1	1 1/4	1 1/2	2
结构长度 (mm) Face to face	L		92	100	100	140	140	155	170
中心高度(开) (mm) Height	H		65	65	95	105	110	110	140
流道孔径 (mm) Height(angle dimension)	d		9	12	15	20	28	32	40
重量(约)(Kg) Weight			2.0	3.5	8.0	8.0	12	16	18

◆ 对接焊标准/Butt-welded standard ASME B16.25

单位Unit:mm

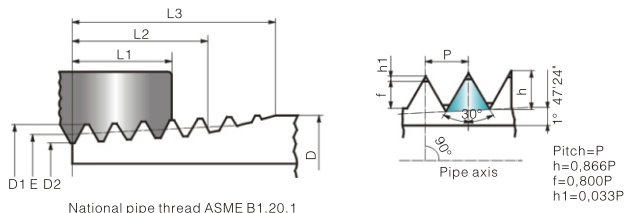


公称管径 Normal diameter	SCH.40			SCH.80			SCH.160			SCH.XXS		
	A	B	T	A	B	T	A	B	T	A	B	T
1/2	21.3	15.8	2.77	21.3	13.8	3.73	21.3	11.7	4.78	21.3	6.4	7.47
3/4	26.7	25.0	2.87	26.7	18.9	3.91	26.7	15.6	5.56	26.7	11.1	7.82
1	33.4	26.6	3.38	33.4	24.3	4.55	33.4	20.7	6.35	33.4	15.2	9.09
1 1/4	42.2	35.1	3.55	42.2	32.5	4.85	42.2	29.5	6.35	42.2	22.8	9.70
1 1/2	48.3	41.0	3.68	48.3	38.1	5.08	48.3	33.5	7.41	48.3	28.0	10.15
2	60.3	52.5	3.91	60.3	49.2	5.54	60.3	42.9	8.74	60.3	38.2	11.07
2 1/2	73.0	62.7	5.15	73.0	59.0	7.01	73.0	54.0	9.53	73.0	45.0	14.02
3	88.9	78.0	5.48	88.9	73.7	7.62	88.9	66.6	11.13	88.9	58.4	15.24
4	114.3	102.3	6.02	114.3	97.2	8.56	114.3	85.3	13.49	114.3	80.1	17.12

◆ 各国承插焊标准/Foreign socket welded standard JB-ANSI-JIS

单位Unit:mm

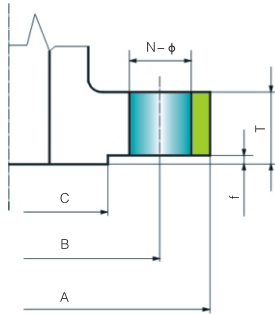
公称管径 Normal diameter	中国JB		美国ANSI		日本JIS	
	D	L	D	L	D	L
1/4	14.5	10.0	14.1	9.6	14.3	9.6
3/8	18.0	10.0	17.6	9.6	17.9	9.6
1/2	22.5	10.0	21.8	9.6	22.2	9.6
3/4	28.5	11.0	27.1	12.7	27.7	12.7
1	34.5	12.0	33.8	12.7	34.5	12.7
1 1/4	43.0	14	42.6	12.7	43.2	12.7
1 1/2	49.0	15	48.7	12.7	49.1	12.7
2	61.2	16	61.2	15.9	61.2	15.9



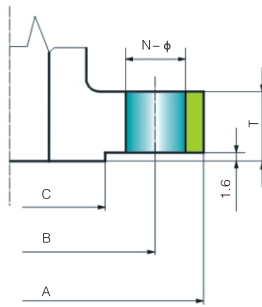
◆ 螺纹标准/Thread standard ASME B1.20.1

公称管径 Normal diameter	管外径 O.D.OF Pipe	牙数/英寸 Threads sep in.	螺距 Pitch of thread	O.D.AT Beginning of thread	管端螺纹中径 Pitch dia.at beginning of ext.thread	Root dia.at beginning of ext.thread	内外螺纹啮合长度 Handtight engagement	外螺纹有效长度 Effective thread ext.length	牙型高度 Overall length ext.thread
		D	N	P	D1	E	D2	L1	L2
1/8	inch	0.41	1.06	0.04	0.39	0.36	0.18	0.26	0.39
	mm	10.29	27	0.940	9.982	9.233	4.572	6.703	9.967
1/4	inch	0.54	0.71	0.06	0.52	0.48	0.20	0.40	0.59
	mm	13.72	18	1.412	13.259	12.126	5.080	10.206	15.103
3/8	inch	0.67	0.71	0.06	0.66	0.61	0.24	0.41	0.60
	mm	17.14	18	1.412	16.662	15.545	6.096	10.358	15.255
1/2	inch	0.84	0.55	0.07	0.82	0.76	0.32	0.53	0.78
	mm	21.34	14	1.814	20.726	19.263	8.128	13.556	19.850
3/4	inch	1.05	0.55	0.07	1.03	0.97	0.34	0.55	0.79
	mm	26.67	14	1.814	26.035	24.580	8.611	13.861	20.155
1	inch	1.31	0.452	0.09	1.28	1.21	0.40	0.68	0.98
	mm	33.40	11.1/2	2.210	32.588	30.825	10.160	17.343	25.006
1 1/4	inch	1.66	0.45	0.09	1.63	1.56	0.42	0.71	1.01
	mm	42.16	11.1/2	2.210	41.326	39.550	10.688	17.953	25.616
1 1/2	inch	1.90	0.45	0.09	1.87	1.80	0.42	0.72	1.03
	mm	48.26	11.1/2	2.210	47.396	45.621	10.668	18.377	26.040
2	inch	2.37	0.45	0.09	2.34	2.27	0.44	0.76	1.06
	mm	60.32	11.1/2	2.210	59.411	57.633	11.074	19.215	26.878

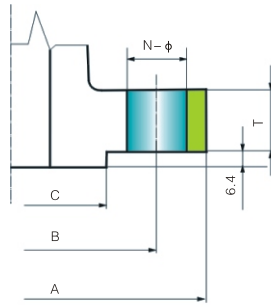
◆ 德标法兰/DIN flange-2544-45-46



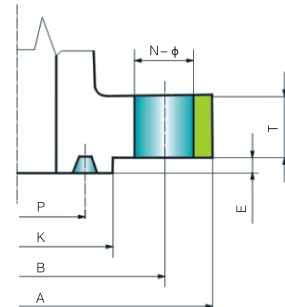
PN	DN	NPS	A	B	C	T	f	螺栓孔	
								N	φ
25 40	15	1/2	95	65	45	16	2	4	14
	20	3/4	105	75	58	18	2	4	14
	25	1	115	85	68	18	2	4	14
	32	1 1/4	140	100	78	18	2	4	18
	40	1 1/2	150	110	88	18	3	4	18
64	15	1/2	105	75	45	20	2	4	14
	20	3/4	130	90	58	22	2	4	18
	25	1	140	100	65	24	2	4	18
	32	1 1/4	155	110	75	24	2	4	22
	40	1 1/2	170	125	88	26	3	4	22
50	2	180	135	95	26	3	4	22	



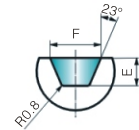
凸面法兰(RF flange)  
150-300Lb



凸面法兰(RF flange)  
600-2500Lb



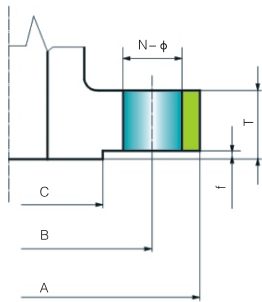
环槽面法兰(RJ flange)  
600-2500Lb



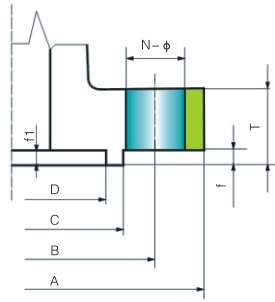
◆ 美标法兰/Flange standard ASME B16.5

CLASS	NPS	A	B	C	T	螺栓孔 Bolt hole		环连接面 Ring type joint				环号 Ring No
						N	φ	K	P	F	E	
150	1/2	89	60.3	34.9	11.5	4	16	-	-	-	-	-
	3/4	98	69.8	42.9	13.0	4	16	-	-	-	-	-
	1	108	79.4	50.8	14.5	4	16	63.5	47.62	8.74	6.4	R15
	1 1/4	117	88.9	63.5	16.0	4	16	73.0	57.15	8.74	6.4	R17
	1 1/2	127	98.4	73.0	17.5	4	16	82.5	65.07	8.74	6.4	R19
2	152	120.6	92.1	19.5	4	20	102.0	82.55	8.74	6.4	R22	
300	1/2	95	66.7	34.9	14.5	4	16	51.0	34.14	7.14	5.6	R11
	3/4	117	82.5	42.9	16.0	4	20	63.5	42.88	8.74	6.4	R13
	1	124	88.9	50.8	17.5	4	20	70.0	50.80	8.74	6.4	R16
	1 1/4	133	98.4	63.5	19.5	4	20	79.5	60.32	8.74	6.4	R18
	1 1/2	156	114.3	73.0	21.0	4	23	90.5	68.28	8.74	6.4	R20
2	165	127.0	92.1	22.5	8	20	108.0	82.55	11.91	8.0	R23	
600	1/2	95	66.7	34.9	14.5	4	16	51.0	34.14	7.14	5.6	R11
	3/4	117	82.5	42.9	16.0	4	20	63.5	42.88	8.74	6.4	R13
	1	124	88.9	50.8	17.5	4	20	70.0	50.80	8.74	6.4	R16
	1 1/4	133	98.4	63.5	21.0	4	20	79.5	60.32	8.74	6.4	R18
	1 1/2	156	114.3	73.0	22.5	4	23	90.5	68.28	8.74	6.4	R20
2	165	127.0	92.1	25.5	8	20	108.0	82.55	11.91	8.0	R23	
900 1500	1/2	121	82.5	34.9	22.5	4	23	60.5	39.67	8.74	6.4	R12
	3/4	130	88.9	42.9	25.5	4	23	66.5	44.45	8.74	6.4	R14
	1	149	101.6	50.8	29.0	4	26	71.5	50.80	8.74	6.4	R16
	1 1/4	159	111.1	63.5	29.0	4	26	81.0	60.32	8.74	6.4	R18
	1 1/2	178	123.8	73.0	32.0	4	29	92.0	68.28	8.74	6.4	R20
2	216	165.1	92.1	38.5	8	26	124.0	95.25	11.91	8.0	R24	
2500	1/2	133	88.9	34.9	30.5	4	23	65.0	42.88	8.74	6.4	R13
	3/4	140	95.2	42.9	32.0	4	23	73.0	50.80	8.74	6.4	R16
	1	159	107.9	50.8	35.0	4	26	82.5	60.32	8.74	6.4	R18
	1 1/4	184	130.2	63.5	38.5	4	29	101.5	72.24	11.91	6.4	R21
	1 1/2	203	146	73.0	44.5	4	32	114.5	82.55	11.91	6.4	R23
2	235	171.4	92.1	51.0	8	29	133.5	101.60	11.91	8.0	R26	

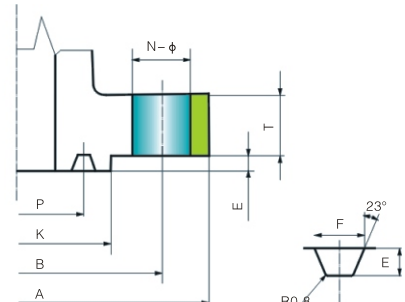




凸面法兰(RF flange)  
PN1.6~4.0MPa



凹面法兰(FM flange)  
PN4.0~16.0MPa



环槽面法兰(RJ flange)  
PN6.3~16.0MPa

单位:mm

◆ 国标法兰/GB flange-JB/T79.1~4-94; JB T82.1~4-94

PN (MPa)	DN	A	B	C	D	T	f	f1	螺栓孔Bolt hole		环连接面Ring type joint			
									N	φ	K	P	F	E
1.6	10	90	60	40	-	14	2	-	4	14	-	-	-	-
	15	95	65	45	-	14	2	-	4	14	-	-	-	-
	20	105	75	55	-	14	2	-	4	14	-	-	-	-
	25	115	85	65	-	14	2	-	4	14	-	-	-	-
	32	135	100	78	-	16	2	-	4	18	-	-	-	-
	40	145	110	85	-	16	3	-	4	18	-	-	-	-
	50	160	125	100	-	16	3	-	4	18	-	-	-	-
2.5 4.0	10	90	60	40	35	16	2	4	4	14	-	-	-	-
	15	95	65	45	40	16	2	4	4	14	-	-	-	-
	20	105	75	55	51	16	2	4	4	14	-	-	-	-
	25	115	85	65	58	16	2	4	4	14	-	-	-	-
	32	135	100	78	66	18	2	4	4	18	-	-	-	-
	40	145	110	85	76	18	3	4	4	18	-	-	-	-
	50	160	125	100	88	20	3	4	4	18	-	-	-	-
6.3	10	100	70	50	35	18	2	4	4	14	50	35	9	6.5
	15	105	75	55	40	18	2	4	4	14	55	35	9	6.5
	20	125	90	68	51	20	2	4	4	18	68	45	9	6.5
	25	135	100	78	58	22	2	4	4	18	78	50	9	6.5
	32	150	110	82	66	24	2	4	4	23	82	65	9	6.5
	40	165	125	95	76	24	3	4	4	23	95	75	9	6.5
	50	175	135	105	88	26	3	4	4	23	105	85	12	8
10.0	10	100	70	50	35	18	2	4	4	14	50	35	9	6.5
	15	105	75	55	40	20	2	4	4	14	55	35	9	6.5
	20	125	90	68	51	22	2	4	4	18	68	45	9	6.5
	25	135	100	78	58	24	2	4	4	18	78	50	9	6.5
	32	150	110	82	66	24	2	4	4	23	82	65	9	6.5
	40	165	125	95	76	26	3	4	4	23	95	75	9	6.5
	50	195	145	112	88	28	3	4	4	25	112	85	12	8
16.0	15	110	75	55	40	24	2	4	4	18	52	35	9	6.5
	20	130	90	62	51	26	2	4	4	23	62	45	9	6.5
	25	140	100	72	58	28	2	4	4	23	72	50	9	6.5
	32	165	115	85	66	30	2	4	4	25	85	65	9	6.5
	40	175	125	92	76	32	3	4	4	27	92	75	9	6.5
	50	215	165	132	88	36	3	4	8	25	132	95	12	8

注Note: 1、凸面、凹面法兰厚度(T)包括凸出部分高度f1, 环槽面法兰厚度(T)不包括凸出部分高度E。  
RF&FM flange thickness (T) include bulge height f1, RTJ flange thickness



◆ 温度压力等级/Temperature-pressure rate(Psig)- F: Class 150-300-600-800-900-1500-2500

材料Materials	A105&A350-LF2							F5							F11						
	Class	150	300	600	800	900	1500	2500	150	300	600	800	900	1500	2500	150	300	600	800	900	1500
-20 to 100	285	740	1480	1975	2220	3705	6170	290	750	1500	2000	2250	3750	6250	290	750	1500	2000	2250	3750	6250
200	260	675	1350	1800	2025	3375	5625	260	745	1490	2000	2235	3725	6205	260	750	1500	1900	2250	3750	6250
300	230	655	1315	1750	1970	3280	5470	230	715	1430	1940	2150	3580	5965	230	720	1445	1795	2165	3610	6015
400	200	635	1270	1690	1900	3170	5280	200	705	1410	1880	2115	3530	5880	200	695	1385	1755	2080	3465	5775
500	170	600	1200	1595	1795	2995	4990	170	665	1330	1775	1995	3325	5540	170	665	1330	1710	1995	3325	5540
600	140	550	1095	1460	1640	2735	4560	140	605	1210	1615	1815	3025	5040	140	605	1210	1615	1815	3025	5040
650	125	535	1075	1430	1610	2685	4475	125	590	1175	1570	1765	2940	4905	125	590	1175	1570	1765	2940	4905
700	110	535	1065	1420	1600	2665	4440	110	570	1135	1515	1705	2840	4730	110	570	1135	1515	1705	2840	4730
750	95	505	1010	1345	1510	2520	4200	95	530	1055	1420	1585	2640	4400	95	530	1065	1420	1595	2660	4430
800	80	410	825	1100	1235	2060	3430	80	510	1015	1325	1525	2540	4230	80	510	1015	1355	1525	2540	4230
850	65	270	535	715	805	1340	2230	65	485	965	1170	1450	2415	4030	65	485	975	1300	1460	2435	4060
900	50	170	345	460	515	860	1430	50	370	740	940	1110	1850	3085	50	450	900	1200	1350	2245	3745
950								35	275	550	695	825	1370	2285	35	320	640	1005	9550	1595	2655
1000								20	200	400	510	595	995	1655	20	215	430	595	650	1080	1800
1050									145	290	375	430	720	1200		145	290	365	430	720	1200
1100									100	200	275	300	495	830		95	190	225	290	480	800
1150									60	125	185	185	310	515		60	125	140	185	310	515
1200									35	70	120	105	170	285		40	75	95	115	190	315
1250																					
1300																					

◆ 温度压力等级/Temperature-pressure rate(Psig)- F: Class 150-300-600-800-900-1500-2500

材料Materials	F22							F91							F304 F304H						
	Class	150	300	600	800	900	1500	2500	150	300	600	800	900	1500	2500	150	300	600	800	900	1500
-20 to 100	290	750	1500	2000	2250	3750	6250	290	750	1500	2000	2250	3750	6250	275	720	1440	1920	2160	3600	6000
200	260	750	1500	1910	2250	3750	6250	260	750	1500	2000	2250	3750	6250	230	600	1200	1600	1800	3000	5000
300	230	730	1455	1805	2185	3640	6070	230	730	1455	1940	2185	3640	6070	205	540	1080	1410	1620	2700	4500
400	200	705	1410	1730	2115	3530	5880	200	705	1410	1880	2115	3530	5880	190	495	995	1255	1490	2485	4140
500	170	665	1330	1705	1995	3325	5540	170	665	1330	1775	1995	3325	5540	170	465	930	1165	1395	2330	3880
600	140	605	1210	1615	1815	3025	5040	140	605	1210	1615	1815	3025	5040	140	435	875	1105	1310	2185	3640
650	125	590	1175	1570	1765	2940	4905	125	590	1175	1570	1765	2940	4905	125	430	860	1090	1290	2150	3580
700	110	570	1135	1515	1705	2840	4730	110	570	1135	1515	1705	2840	4730	110	425	850	1075	1275	2125	3540
750	95	530	1065	1420	1595	2660	4430	95	530	1065	1420	1595	2660	4430	950	415	830	1060	1245	2075	3460
800	80	510	1015	1355	1525	2540	4230	80	510	1015	1355	1525	2540	4230	80	105	805	1050	1210	2015	3360
850	65	485	975	1300	1460	2435	4060	65	485	975	1300	1460	2435	4060	65	395	790	1035	1190	1980	3300
900	50	450	900	1200	1350	2245	3745	50	450	900	1200	1350	2245	3745	50	390	780	1025	1165	1945	3240
950	35	375	755	1005	1130	1885	3145	35	385	775	1030	1160	1930	3220	35	380	765	1000	1145	1910	3180
1000	20	260	520	715	780	1305	2170	20	365	725	970	1090	1820	3030	20	320	640	860	965	1605	2675
1050		175	350	530	525	875	1455	20	360	720	960	1080	1800	3000		310	615	825	925	1545	2570
1100		110	220	300	330	550	915	20	300	605	805	905	1510	2515		255	515	685	770	1285	2145
1150		70	135	275	205	345	570	20	225	445	595	670	1115	1855		200	400	520	595	995	1655
1200		40	80	145	125	205	345	20	145	290	385	430	720	1200		155	310	415	465	770	1285
1250																115	225	295	340	565	945
1300																85	170	220	255	430	715

## ◆ 阀体与阀盖材料/Body and bonnet materials

化学成份 Chemical composition	碳钢 Carbon steel	低温 Cryogenic		Alloy steel				奥氏体不锈钢ASTM-A182 Austenite stainless steel ASTM-A182						双相不锈钢 Duplex stainless steels
	A105	LF2	LF3	F5	F91	F11Class2	F22Class3	F304	F304H	F304L	F316	F316L	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	0.60-1.05	0.60-1.35	0.90	0.30-0.60	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	0.20
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	3.3-3.7	0.50	0.40	-	-	8.0-11.0	8.0-11.0	8.0-13.0	10.0-14.0	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

机械性能 Mechanical property	ASTM A105	LF2	LF3	F5	F91	F11Class2	F22Class3	F304	F304H	F304L	F316	F316L	F347H	F51
抗拉强度 Tensile strength	70	70-95	70-95	70	85	70	75	75	75	70	75	70	75	90
屈服强度 Yield strength	36	36	37.5	40	60	40	45	30	30	25	30	25	30	65
延伸率 Elongation at Rupture	22	22	22	20	20	20	20	30	30	30	30	30	30	25
断面收缩率 Shrinkage of R. A.	30	30	35	35	40	30	30	50	50	50	50	50	50	45
布氏硬度 Brinell hardness	187(2)	197	197	143-217	≤248	143-207	156-207	-	-	-	-	-	-	-

## ◆ 内件与螺栓材料/Trim and bolt materials

化学成份 Chemical composition	内件材料Trim materials					螺栓材料 Bolt materials				
	AISI 410	AISI 416	AISI 420	ASTM B164 Monel	Stellite Gr.6	ASTM A193		AISI 430	ASTM A194	
						B7	B8		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	1.00max.	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	-	0.600max.	-	-	-	0.15-0.25	-	-	-	-
Cu	-	-	-	28.0-34.0	-	-	-	-	-	-
其它元素 Other element	-	-	-	Fe:2.5max.	Fe:3.0max. W:4.0 Co:balance	-	-	-	-	-

机械性能 Mechanical property	410	416	420	ASTM A164	Gr.6	B7	B8	430	2H	G8
抗拉强度 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	- -	- -
屈服强度 Yield strength	59/170 42/120	59/128 42/90	119/199 84/140	25(2) 17.6	- -	105 73.8	30 21	40 28	- -	- -
延伸率 Elongation at rupture	(15)(1)	(10)(1)	(8)(1)	(35)(2)	-	16	30	28	-	-
断面收缩率 Shrinkage of R. A.	50/75	8/60	5/40	-	-	50	50	65	-	-
布氏硬度 Brinell hardness	180-375	180/375	300-600	-	HRC min.37	-	-	160	248-352	126-300