

## Forged steel globe valves

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

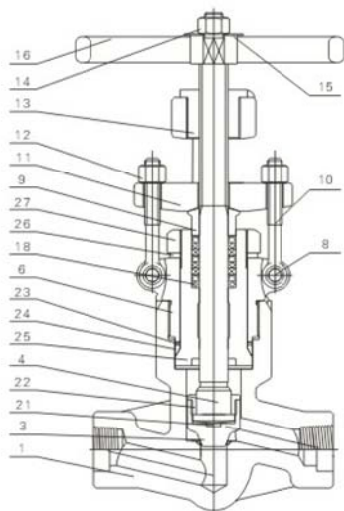
### Construction is as follows

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





## Pressure sealing globe valves



### Application standards

- 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: 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.

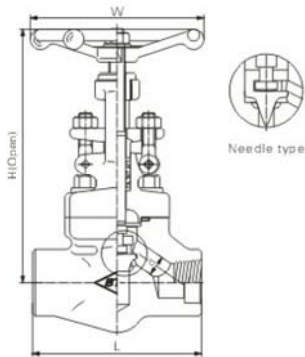
### Carbon steel temperature-pressure rate

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

### Main part materials list

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

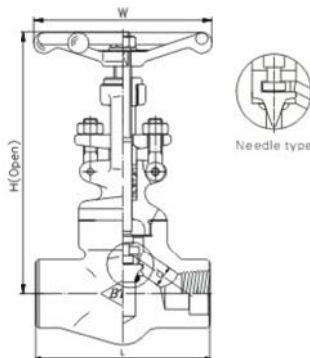
## Female threaded and socket welded globe valves



### CL800

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

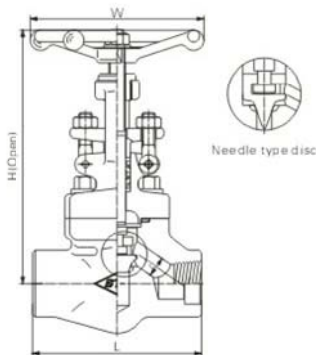
Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	73	73	80	100	114	145	160	220	-
Handwheel diameter	W	100	100	100	125	160	160	180	200	-
Height	H	155	155	160	198	217	235	273	303	-
Flow port dimension	d	7	9	12	17.5	22.5	29	35	44	-
Weight(Kg)		1.7	1.7	1.9	3.2	4.9	6.3	9.6	12.5	-



### CL800

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

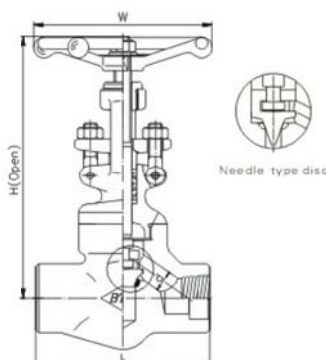
Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	73	73	80	100	114	145	160	220	-
Handwheel diameter	W	100	100	100	125	160	160	180	200	-
Height	H	160	160	160	188	215	218	253	280	-
Flow port dimension	d	7	9	12	17.5	22.5	29	36	44	-
Weight(Kg)		1.7	1.7	1.5	3.0	4.7	6.0	9.3	12.0	-



### CL900-CL1500

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

Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	80	100	100	114	145	160	172	-	-
Handwheel diameter	W	100	125	125	160	160	180	200	-	-
Height	H	160	193	193	212	235	257	300	-	-
Flow port dimension	d	7	11	14.5	19	26	29	33	-	-
Weight(Kg)		2.4	3.4	3.4	5.1	7.6	10.3	12.5	-	-

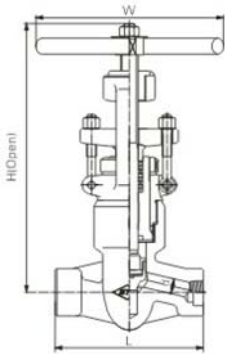


### CL900-CL1500

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

Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	80	100	100	114	145	160	172	-	-
Handwheel diameter	W	100	125	125	160	160	180	200	-	-
Height	H	160	188	188	195	218	253	300	-	-
Flow port dimension	d	7	11	14.5	19	26	29	33	-	-
Weight(Kg)		2.3	3.1	3.1	5.0	7.2	9.5	11.3	-	-

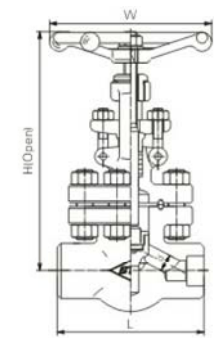
## Female threaded and socket welded globe valves



### CL900-CL1500

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

Specification(NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	140	140	140	178	178	216	-
Handwheel diameter	W	200	200	200	200	200	300	-
Height	H	320	320	320	427	427	490	-
Flow port dimension	d	13	16	19	25	27	36	-
Weight(Kg)		11.5	10.8	10.5	19.6	21.1	55.4	-

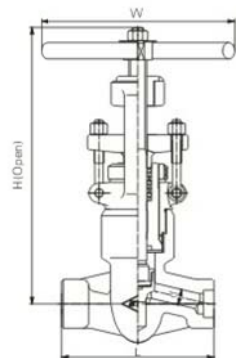


Welded bonnet

### CL2500

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

Specification(NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	114	114	145	-	-	-	-
Handwheel diameter	W	160	160	160	-	-	-	-
Height	H	208	208	217	-	-	-	-
Flow port dimension	d	12	14.2	19	-	-	-	-
Weight(Kg)		5.7	7.5	12.5	-	-	-	-



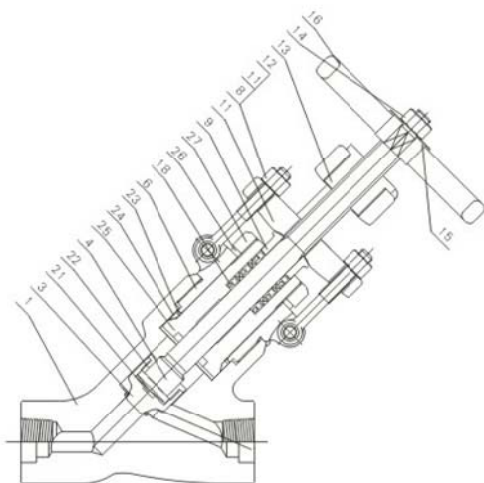
### CL2500

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

Specification(NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	186	186	186	232	232	279	-
Handwheel diameter	W	200	200	200	270	270	300	-
Height	H	330	330	330	480	480	530	-
Flow port dimension	d	13	16	19	25	28	36	-
Weight(Kg)		12.3	11.6	10.8	26.0	28.4	60	-



## Pressure seal Y type globe valves



### Application standards

- 1、 Design and manufacture conform to BS5352 MSS SP-118;
- 2、 Connection ends conform to:
  - 1)Socket welded 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; Hastelloy.

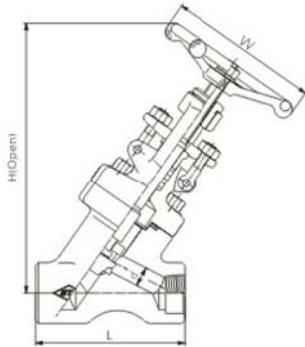
### Carbon steel temperature–pressure rate

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

### Main part materials list

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

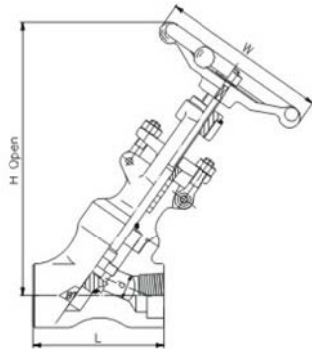
## Y type globe valves



### CL800

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

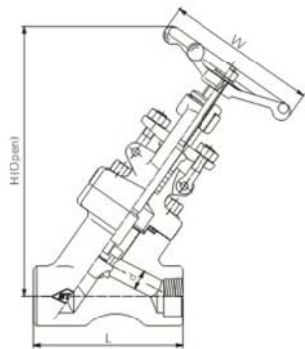
Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	98	98	98	111	140	140	155	170	
Handwheel diameter	W	100	100	100	125	160	160	180	200	
Height	H	180	180	180	188	280	280	295	350	
Height(angle dimension)	d	7	9	13	17.5	23	30	35	46	
Weight(Kg)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



### CL800

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

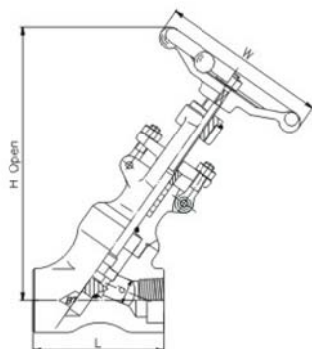
Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	79	79	79	90	118	155	155	175	
Handwheel diameter	W	100	100	100	125	160	180	180	200	
Height	H	172	172	172	196	235	280	260	345	
Height(angle dimension)	d	7	9	13	17.5	22.5	29.5	35	44	
Weight(Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	19.5	



### CL900-CL1500

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

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



### CL900-CL1500

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

Specification(NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	79	90	118	155	155	175	200	
Handwheel diameter	W	100	125	160	180	180	200	200	
Height	H	172	196	220	255	257	315	320	
Height(angle dimension)	d	9	13	17.5	22.5	29.5	35	44	
Weight(Kg)		1.8	3.5	3.5	8.0	8.0	12	16	