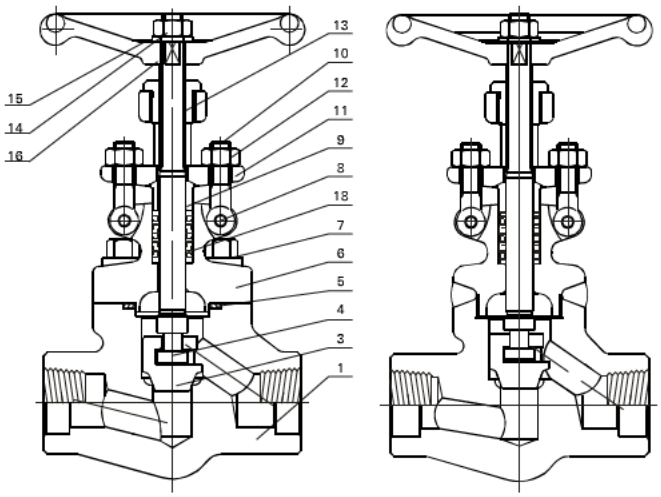
Forged steel globe valves

BTL 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.

Female threaded and socket welded globe valves



Application standards

1、Design and manufacture conform to BS5352 MSS SP–118;
2、Connection ends conform to:
1)Scoket 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; F22; 304(L); 316(L); F347;
F321; F51; Monel; 20 Alloy.

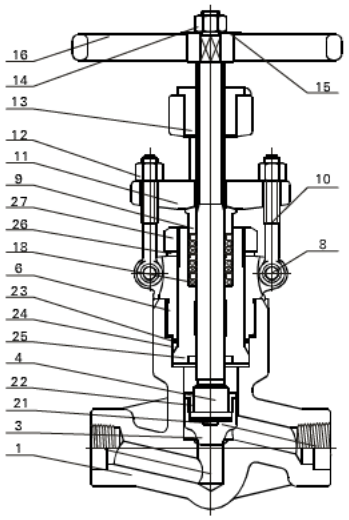
Carbon steel temperature–pressure rate

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

Main part materials list

NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	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

Pressure sealing globe valves



Application standards

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

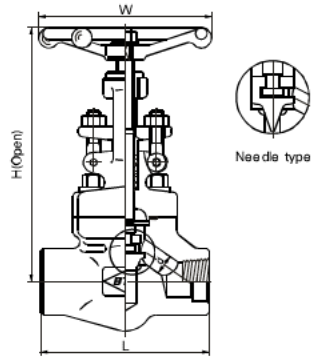
Carbon steel temperature-pressure rate

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

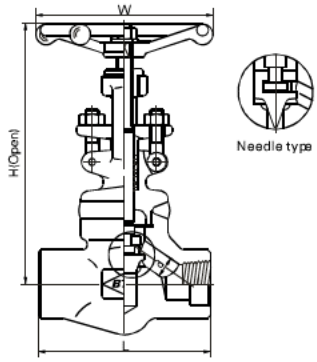
Female threaded and socket welded globe valves



CL800

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

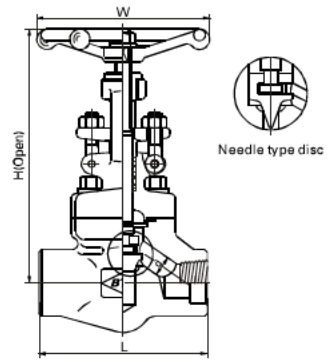
Specification (NPS)	R.P / F.P	– / 1/4	1/2 / 3/8	3/4 / 1/2	1 / 3/4	1 1/4 / 1	1 1/2 / 1 1/4	2 / 1 1/2	2 1/2 / 2	3 / 2 1/2
Face to face	L	79	79	92	111	120	152	172	200	
Handwheel diameter	W	100	100	100	125	160	160	180	200	
Height	H	164	164	164	203	224	260	300	355	
Flow port dimension	d	7	9	13	17.5	23	30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



CL800

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

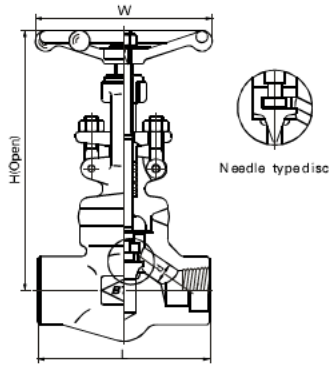
Specification (NPS)	R.P / F.P	– / 1/4	1/2 / 3/8	3/4 / 1/2	1 / 3/4	1 1/4 / 1	1 1/2 / 1 1/4	2 / 1 1/2	2 1/2 / 2	3 / 2 1/2
Face to face	L	79	79	92	111	120	152	172	200	
Handwheel diameter	W	100	100	100	125	160	160	180	200	
Height	H	164	164	164	203	224	260	300	355	
Flow port dimension	d	7	9	13	17.5	23	30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



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

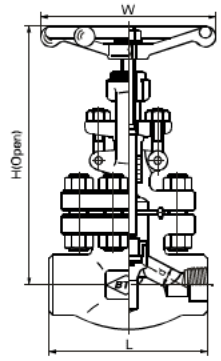


CL900–CL1500

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 / F.P	– / 1/4	1/2 / 3/8	3/4 / 1/2	1 / 3/4	1 1/4 / 1	1 1/2 / 1 1/4	2 / 1 1/2	2 1/2 / 2	3 / 2 1/2
Face to face	L	92	111	111	120	152	172	200	220	–
Handwheel diameter	W	100	125	125	160	160	180	200	240	–
Height	H	171	207	207	240	258	330	355	370	–
Flow port dimension	d		12	15	20	28	32	40	45	–
Weight(Kg)		270	3.4	3.3	6.0	5.6	10.3	14.2	18.0	–

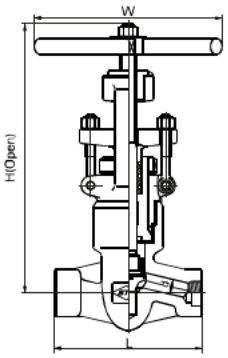
Female threaded and socket welded globe valves



CL900-CL1500

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

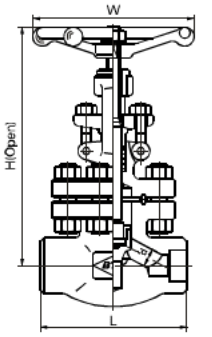
Specification(NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	110	110	150	150		210	235
Handwheel diameter	W	110	110	130	210		180	250
Height	H	227	227	300	307		40	448
Flow port dimension	d	9	12	15	20		32	40
Weight(Kg)		5	5	10	11.5		22	37



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	280	280	300	
Height	H	320	320	320	440	440	490	
Flow port dimension	d	12	15	20	28	32	40	
Weight(Kg)		11.5	10.8	10.5	19.6	21.1	55.4	

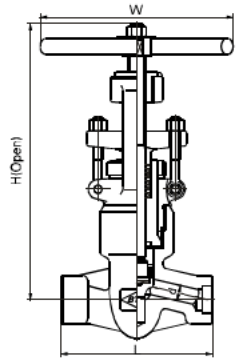



Welded bonnet

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	150	150	210		235	235	
Handwheel diameter	W	130	130	250		300	300	
Height	H	293	300	390		435	435	
Flow port dimension	d	11	14	19		28	35	
Weight(Kg)		10	10.3	22.4		38	38	

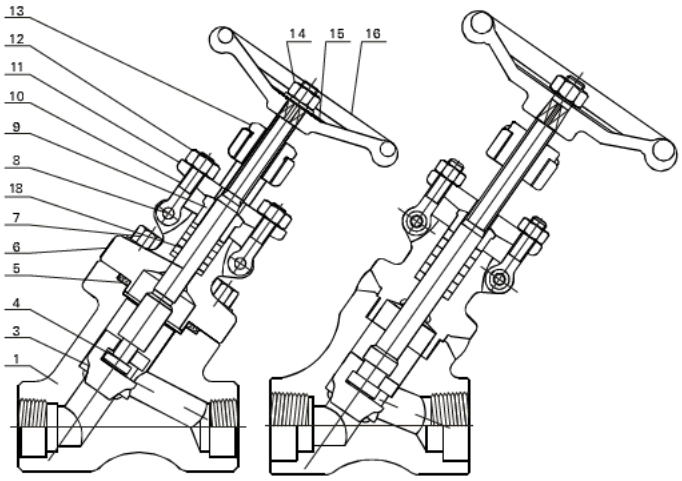


CL2500

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	280	280	300	
Height	H	375	378	380	490	490	540	
Flow port dimension	d	11	14	19	25	28	35	
Weight(Kg)		12.3	11.6	10.8	26.0	28.4	60	

Female threaded and socket welded Y type globe valves



Application standards

1、Design and manufacture conform to BS5352 MSS SP–118;
2、Connection ends conform to:
1)Scoket 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; F22; 304(L); 316(L); F347;
F321; F51; Monel; 20 Alloy; Hastelloy.

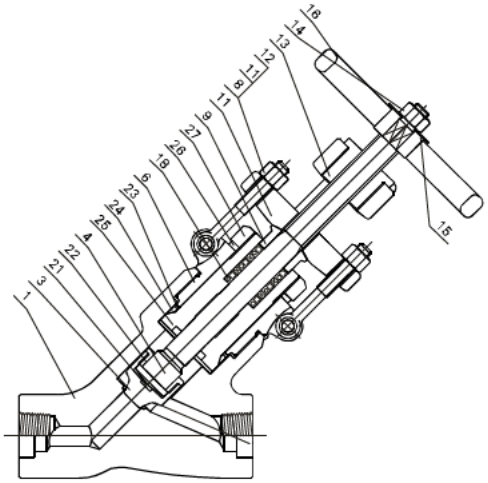
Carbon steel temperature–pressure rate

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

Main part materials list

NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	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

Pressure seal Y type globe valves



Application standards

1、Design and manufacture conform to BS5352 MSS SP–118;
2、Connection ends conform to:
1)Scoket 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.

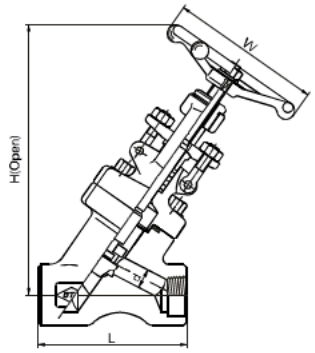
Carbon steel temperature–pressure rate

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

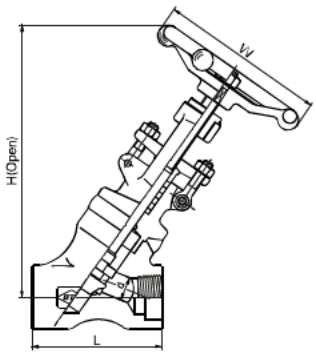
Y type globe valves



CL800

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

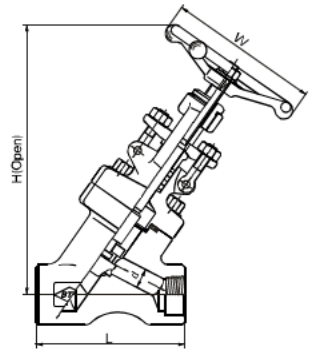
Specification (NPS)	R.P / F.P	- / 1/4	1/2 / 3/8	3/4 / 1/2	1 / 3/4	1 1/4 / 1	1 1/2 / 1 1/4	2 / 1 1/2	2 1/2 / 2	3 / 2 1/2
Face to face	L	98	98	98	111	140	140	155	170	
Handwheel diameter	W	100	100	100	125	160	160	180	200	
Height	H	180	180	180	188	280	280	295	350	
Height(angle dinmension)	d	7	9	13	17.5	23	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

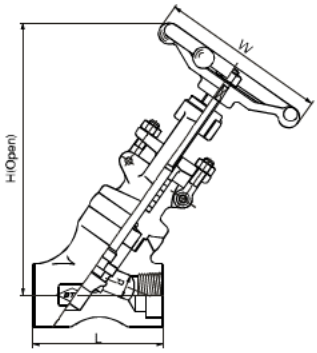
Specification (NPS)	R.P / F.P	- / 1/4	1/2 / 3/8	3/4 / 1/2	1 / 3/4	1 1/4 / 1	1 1/2 / 1 1/4	2 / 1 1/2	2 1/2 / 2	3 / 2 1/2
Face to face	L	79	79	92	100	140	140	155	170	
Handwheel diameter	W	100	100	100	125	160	160	180	200	
Height	H	198	198	198	207	280	280	295	350	
Height(angle dinmension)	d	7	9	13	17.5	23	30	35	46	
Weight(Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	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 dinmension)	d	9	12	15	20	28	32	40	
Weight(Kg)		2.6	4.6	4.6	9.3	9.3	14	19.6	

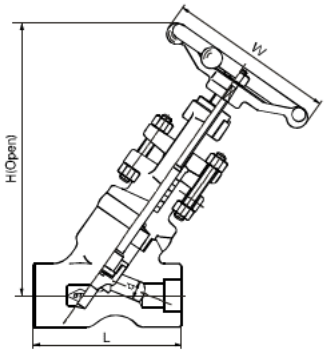


CL900-CL1500

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	92	100	100	140	140	155	170	
Handwheel diameter	W	100	125	125	160	160	180	200	
Height	H	175	207	207	280	280	295	350	
Height(angle dinmension)	d	9	12	15	20	28	32	40	
Weight(Kg)		1.8	3.5	3.5	8.0	8.0	12	16	

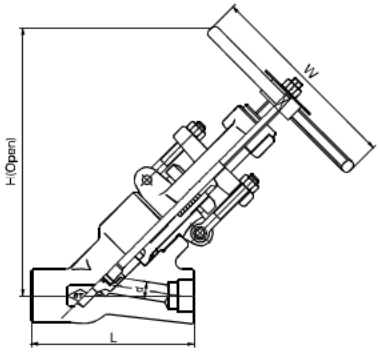
Y type globe valves



CL2500

Welded bonnet, full port outside screw and yoke(OS & Y)
Socket welded, design conform to ASME16.34

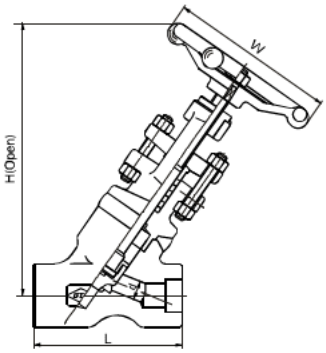
Specification(NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	186	186	186	186	232	232	310
Handwheel diameter	W	200	200	20	200	280	280	300
Height	H	329	329	329	329	350	350	383
Height(angle dimension)	d	9	11	14	19	25	28	35
Weight(Kg)		12.3	12.3	11.6	10.8	28.0	26.4	43.8



CL2500

Pressure seal bonnet, full port outside screw and yoke(OS & Y)
Socket welded, design conform to ASME16.34

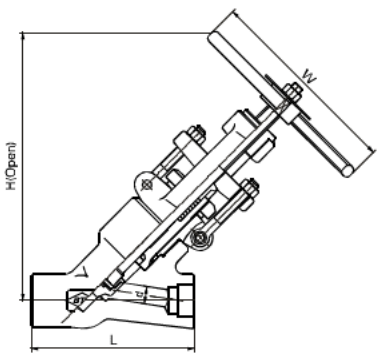
Specification(NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	186	186	186	186	232	232	310
Handwheel diameter	W	200	200	20	200	280	280	300
Height	H	333	333	333	333	406	406	524
Height(angle dimension)	d	9	11	14	19	25	28	35
Weight(Kg)		12.3	12.3	11.6	10.8	28.0	26.4	43.8



CL4500

Welded seal bonnet，full port outside screw and yoke(OS & Y)
Socket welded, design conform to ASME16.34

Specification(NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	155	155	155	155		225	225
Handwheel diameter	W	180	180	180	180		400	400
Height	H	350	350	350	380		453	453
Height(angle dimension)	d	9	11	11	15		26	28
Weight(Kg)		9.6	9.6	9.4	10.5		34	36

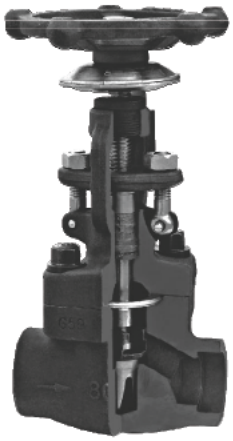


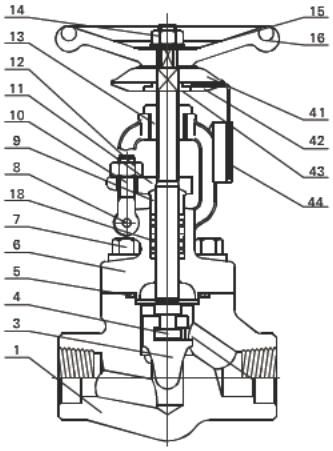
CL4500

Pressure seal bonnet, full port outside screw and yoke(OS & Y)
Socket welded, design conform to ASME16.34

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

Linear regulating valves





BTL regulating valves is compose of combination valves and flow control staff guage. because equip with micrometer graduation and finger, whenoperator turn hand wheel around, finger would move ten percent.
BTL regulating valves equip with regulating disc to ensure flow,so it can accuracy control.
Seal facing of BTL regulating valves is stellite deposit, so seal faceing is more corrosion resistant, anti-abrasive and abrasion resistance.
BTL regulating valves is manual operate, liner fow regulating function, abrasion resistance.
If you want to equip with locking device,please note you BTL requirement.

Application standards

1、Design and manufacture conform to BS5352 MSS SP-118;
2、Connection ends conform to:
1)Scoket 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
Disc is one piece or "V" type double or four pieces.
5、Materials conform to ANSI/ASTM.
6、Main materials:
A105; LF2; F5; 304(L); 316(L); F347; F321;
F51; Monel; 20 Alloy.

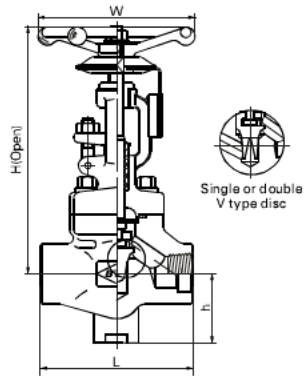
Carbon steel temperature-pressure rate

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

Main part materials list

NO.	Part name	A105/F6a	A105/Fa6HFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
5	gasket	304+ flexible graphite	304+ flexible graphite	304+ flexible graphite	304+ flexible graphite	304+ flexible graphite	316+ flexible graphite	316+ flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	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
41	Index plate	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel
42	Lower plate	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel
43	Back block	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel
44	Indicative stem	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel	Cast steel

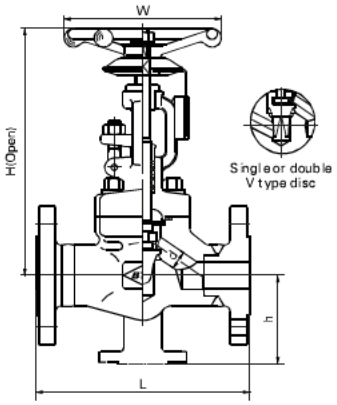
Linear regulating valves



CL800

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

Specification(NPS)	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	79	79	92	111	120	152	172	200
Handwheel diameter	W	100	100	100	125	160	160	180	200
Height	H	166	166	171	207	240	258	330	355
Height (angle dinmension)	SW & NPT(Rc)	40	40	40	45	50	55	60	70
Flow port dimension	d	7.0	9.0	13	17.5	23	30	35	46
Weight(Kg)		1.9	2.3	2.4	4.35	5.25	7.8	12.5	14.6
Flow coefficient Cv	Single disc	0.2	0.5	0.5	1.0	2.0	5.2	5.2	7.0
	Four part disc	0.4	1.0	1.0	2.0	4.0	10.4	10.4	14



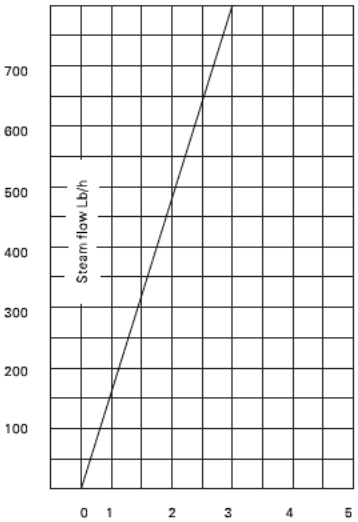
CL150–300–600

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

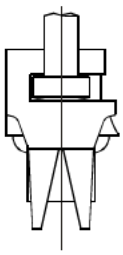
Specification(NPS)	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face L(RF) L1(BW)	CL150	–	–	108	118	127	–	165	203
	CL300	–	–	153	178	203	–	229	267
	CL600	–	–	165	191	216	–	241	292
	W	–	–	100	100	125	–	160	180
Height	H	–	–	164	200	220	–	295	350
Height (angle dinmension)	SW & NPT(Rc)	–	–	40	45	50	–	60	70
Flow port dimension	d	–	–	9.0	13	17.5	–	30	35
Weight(Kg)	CL150	–	–	3.45	4.0	6.19	–	10.5	17
	CL300	–	–	3.8	5.1	7.2	–	13.5	19.7
	CL600	–	–	5.6	7.8	12.5	–	23.5	38.8
Flow coefficient Cv	Single disc	–	–	0.5	1.0	2.0	–	5.2	7.0
	Four part disc	–	–	1.0	2.0	4.0	–	10.4	14

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

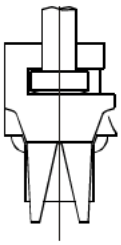
Typical stream flow chart(from experiment)



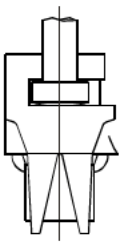
Regulating valves operation



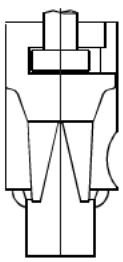
When valves full closed, disc and seat could be shut tightly.



When the disc is opened a little it allows media to flow acc.to a known quota.

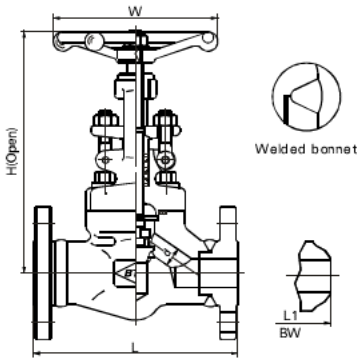


When the disc in the middle of the full lifting height,medium flow can to be reduced or increased according to control scale.



When disc in full open position, valves permit max flow to go through its port, medium flow can be reduced or acc. To control scale.

Flange and butt–welded globe valves

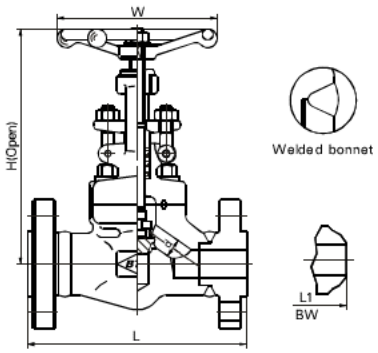


CL150–300–600

Welded bonnet, reducing port outside screw and yoke(OS & Y)
Flange or butt–welding design to BS5352

Specification(NPS)		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
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
Handwheel diameter		W	–	–	100	100	125	160	160	180
Height	CL150/CL300	H	–	–	180	184	217	224	260	300
	CL600		–	–	164	164	203	224	260	300
Height(angle dinmension)		d	–	–	9	13	17.5	23	30	35
Weight (Kg)	CL150 R F		–	–	3.45	4.00	6.19	9.6	10.5	17
	CL150 BW		–	–	2.3	3.6	7.8	8.2	12.0	15.0
	CL300 R F		–	–	3.8	5.1	7.2	12	13.5	19.7
	CL300 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
	CL600 BW		–	–	3.4	4.7	9.2	10.5	13.3	18.9

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

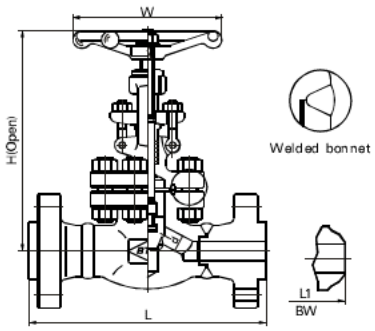


CL900–CL1500

Welded bonnet, full port outside screw and yoke(OS & Y)
Flange or butt–welding design to BS5352

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

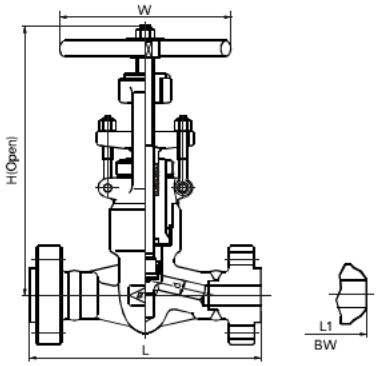
If you want to order one piece body, please contract with sale department



CL2500

Welded bonnet, full port outside screw and yoke(OS & Y)
Welding flange or butt–welded design conform to ASME B16.34

Specification(NPS)	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RF),L1(BW)	–	–	264	273	308	–	384	451
	L(RTJ)	–	–	264	273	308	–	387	454
Handwheel diameter	W	–	–	125	160	200	–	250	240
Height	H	–	–	207	240	258	–	355	300
Height(angle dinmension)	d	–	–	11	14	19	–	28	35
Weight (Kg)		–	–	19.5	21.5	42	–	65	95

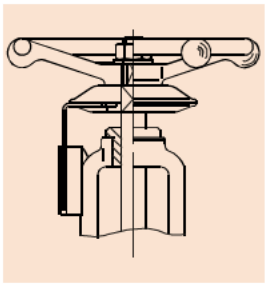


CL2500

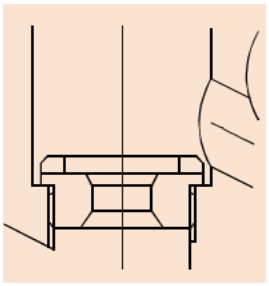
Pressure seal bonnet, full port outside screw and yoke(OS & Y)
Welding flange or butt–welded design conform to ASME B16.34

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

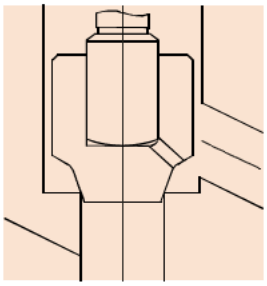
Chosen devices and varieties of globe valves



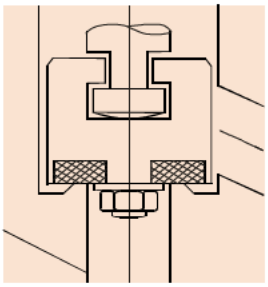
Position indicator



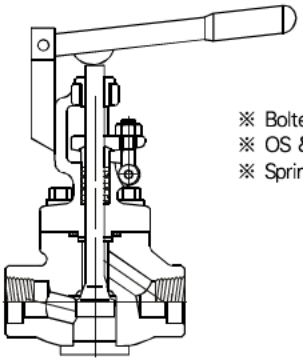
Renewable seat



Globe check valve disc



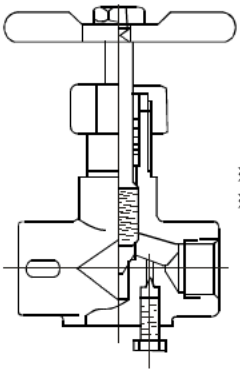
Insert PTFE seat



※ Bolted
※ OS & Y
※ Spring operation

Manual–automatic shut–off valves

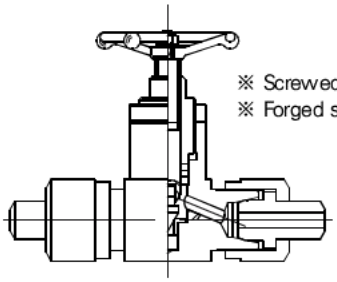
CLASS	Materials
800 1500 Flange and butt–welded	Carbon Steel Alloy Steel Stainless steel



※ Screwed bonnet
※ Forged structure

Instrument valves

CLASS	Materials
3000 6000	Carbon steel Stainless steel

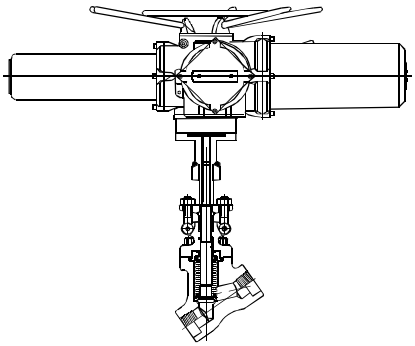


※ Screwed bonnet
※ Forged structure

Needle valves

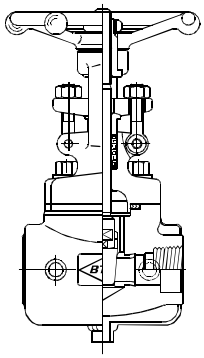
CLASS	Materials
800 1500	Carbon steel Stainless steel

Available actuation types、Jacketed globe valves



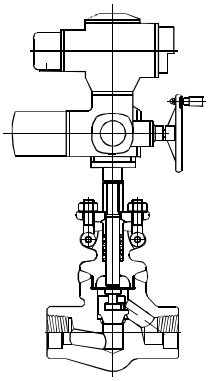
Electric actuator

CLASS	Materials
150~2500	Cart steel, Stainless steel



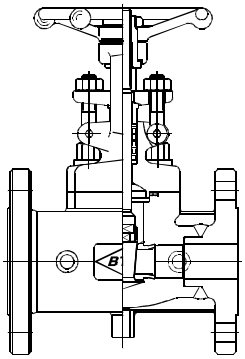
Jacketed valves (socket welding/screw/butt-welding)

CLASS	Materials
150~2500	Cart steel, Stainless steel



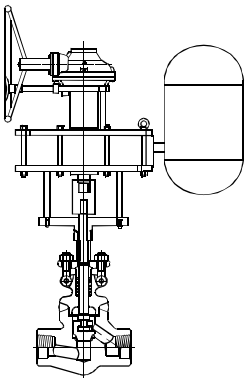
Electric actuator

CLASS	Materials
150~2500	Cart steel, Stainless steel



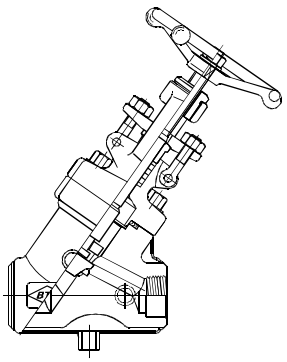
Jacketed valves(flange)

CLASS	Materials
150~2500	Cart steel, Stainless steel



Pneumatic actuator

CLASS	Materials
150~2500	Cart steel, Stainless steel



Y type jacketed valves(socket welding/ screw/butt-weding/flange)

CLASS	Materials
150~2500	Cart steel, Stainless steel