



FORGED STEEL VALVES

PRESSURE CLASS
ASME 150#-2500#
SIZE RANGE
1/4" -3"
API 602
ASME B16.34



- Oil&Gas Power Chemical Petrochemical Marine
- Construction Pulp&Paper Cryogenics Mining

PROFILE

Kojo is one of the Chinese leading manufactures of industrial steel valves, supplying gate, globe, check, ball and butterfly valves for industrial application in the chemical, oil and gas, petrochemical and power, cogeneration, pulp and paper and cryogenic.



KOJO FORGED STEEL VALVES

Since 1995, KOJO has been committed to providing quality industrial valve. Today kojo's comprehensive range for API602 gate, globe, check, angle, and bellows seal valves remain the leading choice for high performance in virtually any industrial application.



AZ



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SMALL FORGED STEEL VALVES

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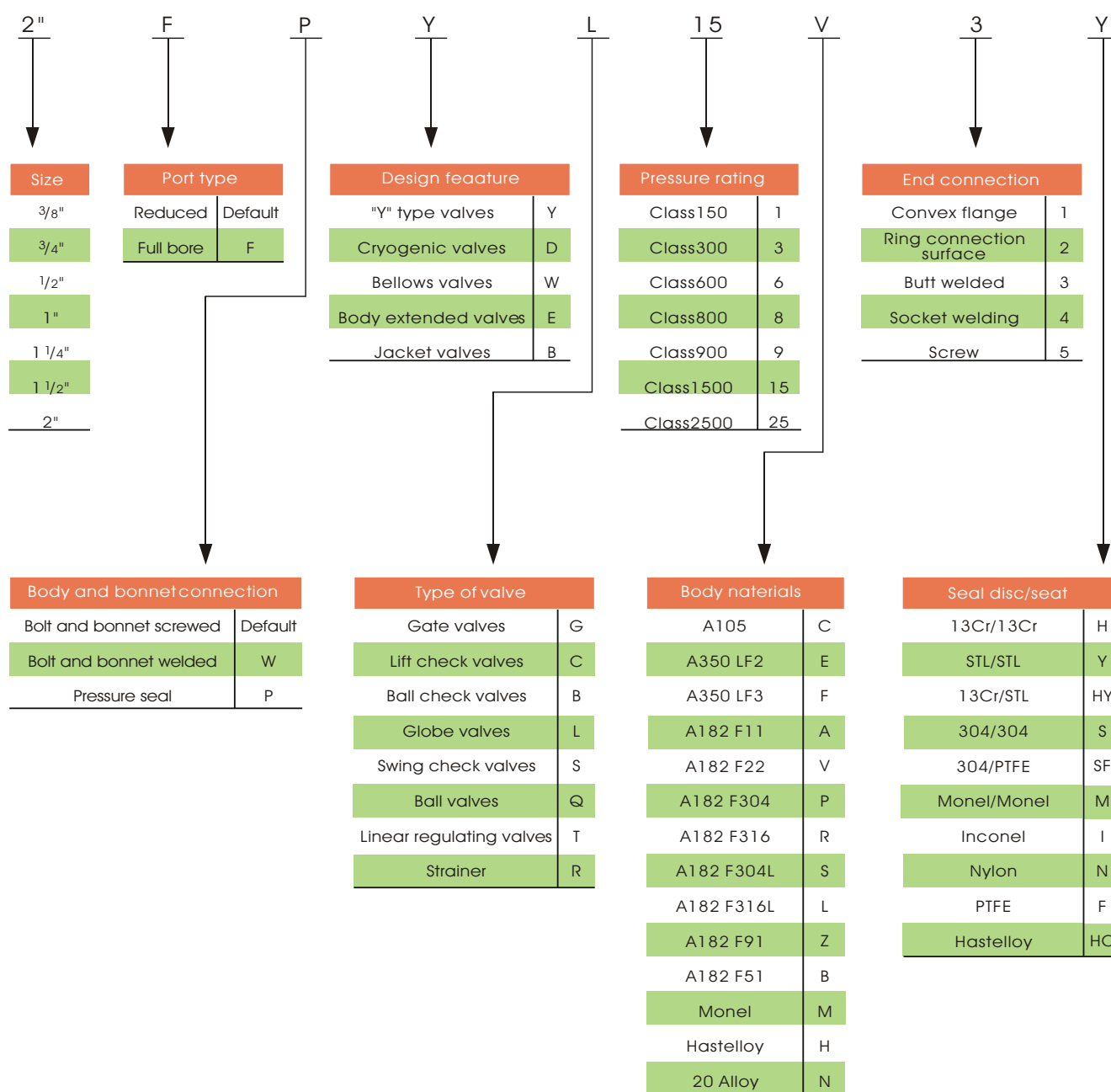
Female threaded and socket welded Y type check valves

Flange and butt-welded check valves

FIGURE NUMBERING

A familiarity with our figure number system is not necessary when specifying or ordering our valves. Providing a full description of the valves is given, our Sales Office will translate this into a figure number. A full description of the valves would begin with the kind of valves, and would then go on to give size, pressure rating, end connection, seat-seal material etc.

We give an example below in order to illustrate a typical figure number, but if a fuller explanation is required, please consult us.





FORGED STEEL GATE VALVES , 1/4-2" (8-50mm)
THREADED, SOCKET WELD , & FLANGED
ASME CLASS 800 , 1500 , 2500
FLANGED ASME CLASSES 150, 300, 600, 1500



Bolted Bonnet



Welded Bonnet



Pressure Seal Bonnet

KOJO 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.

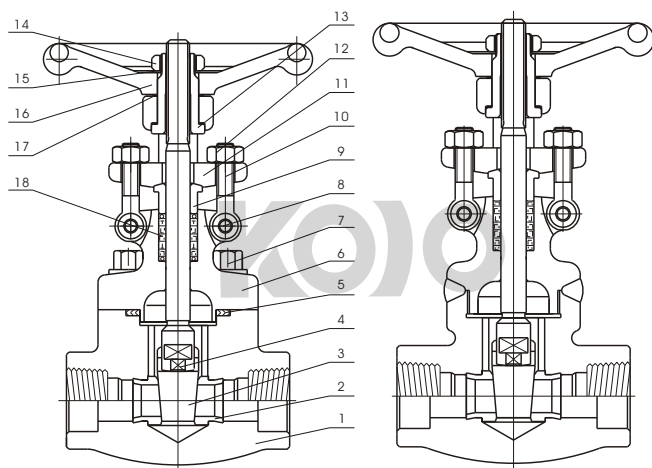
Gate Valve Design Construction and Specifications:

KOJO gate valves conform to API 602, and ASME B 16.34
Each are tested according to API 598, and marking is per MSS SP-25

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 B 16.11
Screwed Ends (NPT) to ANSI/ASME B 1.20.1

FEMALE THREADED AND SOCKET WELDED GATE VALVES



Application standards

- 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.

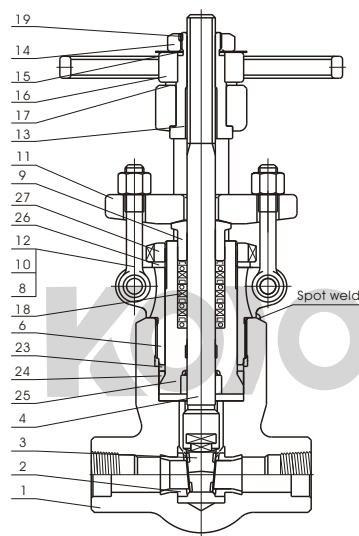
Carbon steel temperature-pressure rate

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

Main part materials list

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

PRESSURE SEALING GATE VALVES



Application standards

- 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:
A threaded and pressure seal bonnet
- Materials conform to ANIS/ASTM.
- Main materials:
A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F91;
Monel; 20 Alloy.

Carbon steel temperature-pressure rate

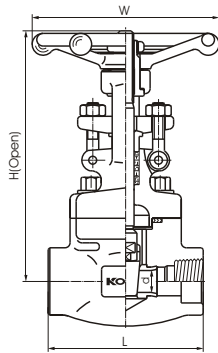
CL1500-3705 PS.I @ 100° F

CL2500-6170 PS.I @ 100° F

Main part materials list

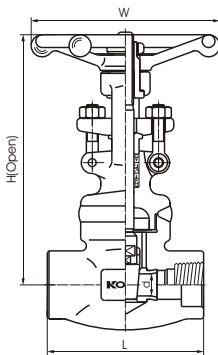
NO.	Part name	A105/F6a	A105/F6aHF	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F91/410 HF
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F91
2	Seat	410	410HF	304	410HF	304(L)	316(L)	410HF
3	Wedge	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F6aHF
4	Stem	410	410	304	410	304(L)	316(L)	410
6	Bonnet	A105	A105	LF2	F11	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	A190
17	Lubricating gasket	410	410	410	410	410	410	410
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
19	Stop nut	35	35	35	35	35	35	35
23	Seal gasket	420	420	304	304	304(L)	316(L)	420
24	P.S. ring	304	304	304	304	304	316	316
25	P.S. seat	420	420	304	304	304(L)	316(L)	F91
26	Nut pad	410	410	410	410	410	410	410
27	Packing nut	Cast steel	Cast steel	Cast steel	Cast steel	Stainless steel	Stainless steel	Cast steel

FEMALE THREADED AND SOCKET WELDED GATE VALVES



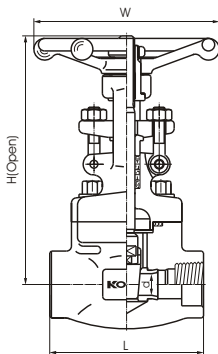
CL800 Bolted bonnet, full port reducing port outside screw and yoke(OS & Y)
Threaded, butt-welded or socket welded ends; design to API 602

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



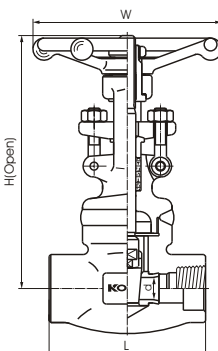
CL800 Welded bonnet, full port reducing port outside screw and yoke(OS & Y)
Threaded, butt-welded or socket welded ends; design to API 602

Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	79	79	92	111	120	120	140	178	180
Handwheel diameter	W	100	100	100	125	160	160	180	200	220
Height	H	161	161	163	196	223	251	290	333	370
Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	51
Weight(Kg)		1.9	1.9	2.1	3.2	5.2	6.9	10.4	15.8	22



CL900-CL1500 Bolted bonnet, full port reducing port outside screw and yoke(OS&Y)
Threaded, butt-welded or socket welded ends; design to API 602

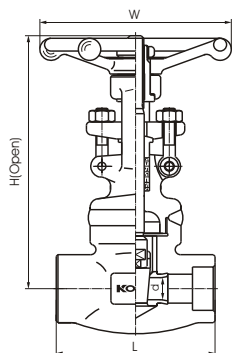
Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	92	111	111	120	120	140	178	180	-
Handwheel diameter	W	100	125	125	160	160	180	200	220	-
Height	H	191	191	192	219	243	296	316	370	-
Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	-
Weight(Kg)		2.4	4.4	4.3	6	7.2	11.4	16	23	-



CL900-CL1500 Welded bonnet, full port reducing port outside screw and yoke(OS&Y)
Threaded, butt-welded or socket welded ends; design to API 602

Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	92	111	111	120	120	140	178	180	-
Handwheel diameter	W	100	125	125	160	160	160	200	220	-
Height	H	171	207	207	240	258	330	355	370	-
Flow port dimension	d	8	10.5	13.5	18	24	29	36.5	45	-
Weight(Kg)		2.3	4	4	4.8	7.1	11	16	22.8	-

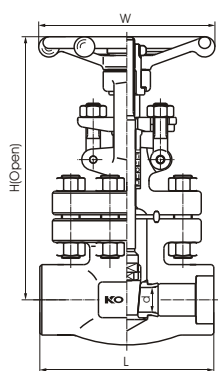
FEMALE THREADED AND SOCKET WELDED GATE VALVES



CL2500

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

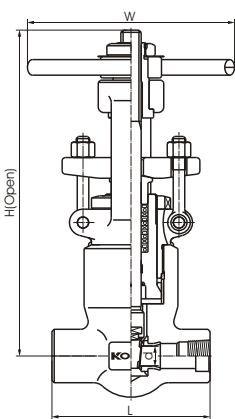
Specification(NPS)		1/4	3/8	1/2	3/4	1	1 1/4	2
Face to face	L	111	120	120	120	140		
Handwheel diameter	W	125	160	160	180	220		
Height	H	215	218	220	238	281		
Flow port dimension	d	14	14	14	19	25		
Weight(Kg)		7	8.7	8.5	11.7	17		



CL1500-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	CL1500	110	150	150		210	235	
		CL2500	150	150	210		235	235	
Handwheel diameter	W	CL1500	110	130	130		180	250	
		CL2500	130	130	250		300	300	
Height	H	CL1500	277	300	390		400	435	
		CL2500	293	300	390		435	435	
Flow port dimension	d	CL1500	14	17	22		35	37	
		CL2500	14	14	14		25	30	
Weight(Kg)		CL1500	5.1	11	12.1		22	37	
		CL2500	11	11.3	22.4		38	38	

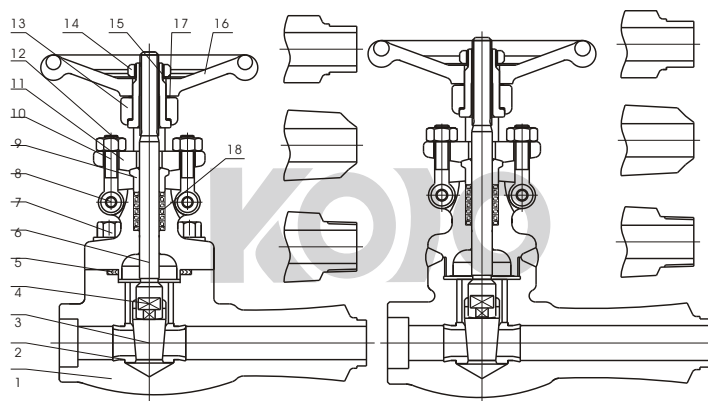


CL1500-CL2500

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

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

EXTENDED BODY GATE VALVES



Application standards

- Design and manufacture conform to
API 602、BS5352、ANSI B16.34;
- 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
- Test and inspection conform to:
API 598; GB/T13927; JB/T9092
- Structure features:
Bolted bonnet, outside screw and yoke
Welded bonnet, outside screw and yoke
- Materials conform to ANSI/ASTM.
- Main materials:
A105; LF2; F5; F11; F22; 304(L); 316(L); F347;
F321; F51; Monel; 20 Alloy.

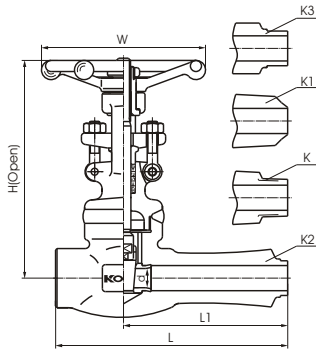
Carbon steel temperature-pressure rate

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	LF2	F11	F304(L)	F316(L)	F51
2	Seat	410	410HF	304	410HF	304(L)	316(L)	F51
3	Wedge	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	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
17	Lubricating gasket	410	410	410	410	410	410	410
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite

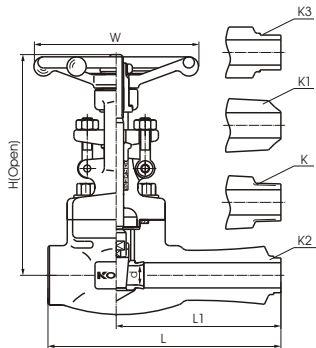
EXTENDED BODY GATE VALVES



CL800

Welded bonnet, reducing port outside screw and yoke(OS & Y)
Threaded, butt-welded or socket welded ends; design to API 602, API 606

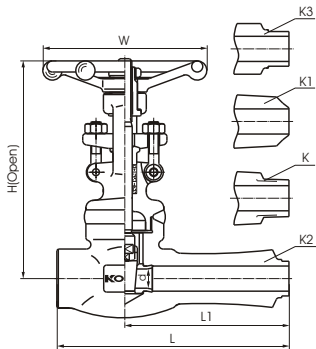
Specification(NPS)		1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	192	215	239	239	258	262
		153	153	182	182	216	216
Extended length	L1	152	170	184	184	193	197
		108	108	127	127	152	152
Handwheel diameter	W	100	100	125	160	160	180
Height	H	161	163	196	223	251	290
Flow port dimension	d	10.5	13.5	18	24	29	36.5
Weight(Kg)	K2	2.5	2.7	4.5	6.3	8.5	11.6
	K, K1, K3	2.2	2.4	3.4	6	8.0	11.4



CL800

Bolted bonnet, reducing port outside screw and yoke(OS & Y)
Threaded, butt-welded or socket welded ends; design to API 602, API 606

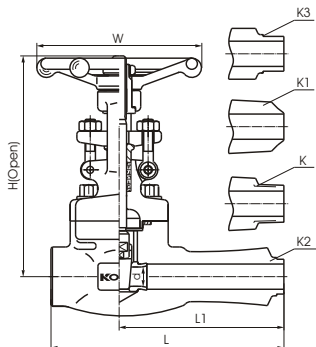
Specification(NPS)		1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	192	215	239	239	258	262
		153	153	182	182	216	216
Extended length	L1	152	170	184	184	193	197
		108	108	127	127	152	152
Handwheel diameter	W	100	100	125	160	160	180
Height	H	161	163	196	223	251	290
Flow port dimension	d	10.5	13.5	18	24	29	36.5
Weight(Kg)	K2	2.8	2.0	5.5	7	8.5	12.1
	K, K1, K3	2.4	2.5	5	6.1	7.8	11.5



CL1500

Welded bonnet, reducing port outside screw and yoke(OS & Y)
Threaded, butt-welded or socket welded ends; design to API 602, API 606

Specification(NPS)		1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	239	239	239	258	262	264
		182	182	182	216	216	264
Extended length	L1	184	184	184	193	197	189
		127	127	127	152	152	189
Handwheel diameter	W	125	125	160	160	180	200
Height	H	207	207	240	258	330	370
Flow port dimension	d	10.5	13.5	18	24	29	36.5
Weight(Kg)	K2	5.6	5.6	7.1	8.7	12.5	16.3
	K, K1, K3	5.1	5.1	6.2	8	11.7	15.7

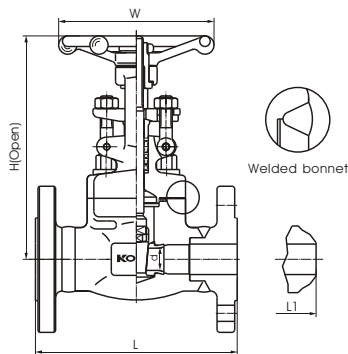


CL1500

Bolted bonnet, reducing port outside screw and yoke(OS & Y)
Threaded, butt-welded or socket welded ends; design to API 602, API 606

Specification(NPS)		1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	239	239	239	258	262	264
		182	182	182	216	216	264
Extended length	L1	184	184	184	193	197	189
		127	127	127	152	152	189
Handwheel diameter	W	125	125	160	160	180	200
Height	H	207	207	240	258	330	370
Flow port dimension	d	10.5	13.5	18	24	29	36.5
Weight(Kg)	K2	6	6	7.7	9.2	13.2	16.7
	K, K1, K3	5.7	5.7	6.5	8.2	12.3	15.9

FORGED STEEL FLANGE GATE VALVES

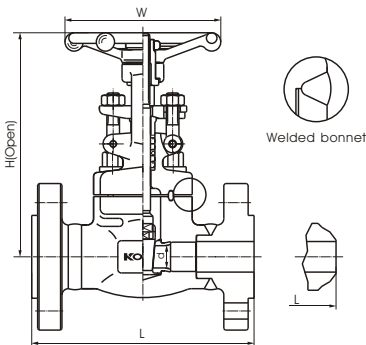


CL150-300-600

Bolted bonnet, reducing port outside screw and yoke(OS & Y)
Flange-welded or butt-welded ends; design to API602;BS5352

Specification(NPS)			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
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
Handwheel diameter		W	-	-	100	100	125	160	160	180	200
Height	CL150	H	-	-	176	184	217	226	250	290	357
	CL300,CL600		-	-	161	163	196	226	250	290	357
Height (angle dinmension)		d	-	-	10	13.5	18	24	29	36.5	45
Weight (Kg)	CL150	RF	-	-	3.4	3.98	6.12	7.2	10.4	15.5	24.5
		BW	-	-	2.8	3.3	5.4	7.1	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

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

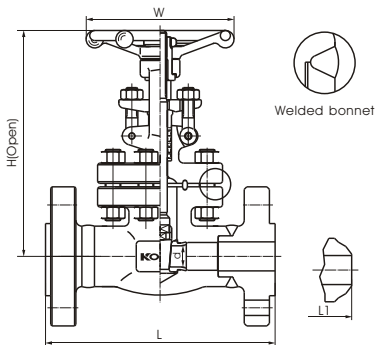


CL900-CL1500

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

Specification(NPS)			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RF),L1(BW)		-	-	216	229	254	279	305	368
	L(RTJ)		-	-	216	229	254	279	305	371
			-	-	125	125	160	180	200	220
Handwheel diameter		W	-	-	125	125	160	180	200	220
Height		H	-	-	191	192	219	257	296	316
Height(angle dinmension)		d	-	-	13.5	18	24	29	36.5	45
Weight(Kg)			-	-	7.2	11.5	15.6	16.2	22.6	28.2

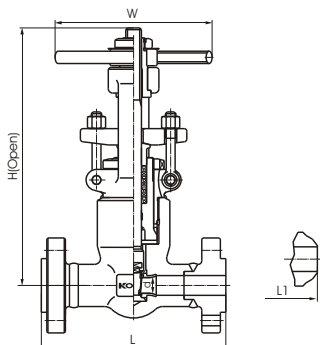
If you want to order one piece body, please contract with sale department



CL2500

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

Specification(NPS)			1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face (mm)	L(RF),L1(BW)		-	-	264	273	308	-	384	451
	L(RTJ)		-	-	264	273	308	-	387	454
			-	-	125	160	160	-	200	240
Handwheel diameter		W	-	-	125	160	160	-	200	240
Height		H	-	-	207	240	258	-	355	370
Height(angle dinmension)		d	-	-	13.5	13.5	19	-	30	36.5
Weight(Kg)			-	-	19.5	21.5	42	-	65	95

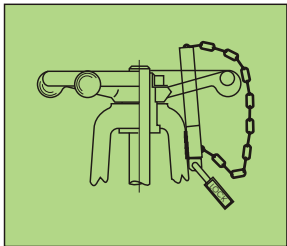


CL2500

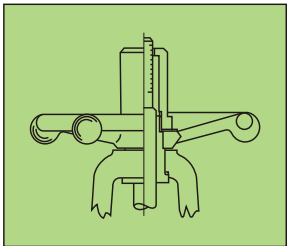
Pressure seal gate valves, full port outside screw and yoke(OS & Y)
Flange-welded or butt-welded ends; design to ASME B16.34

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

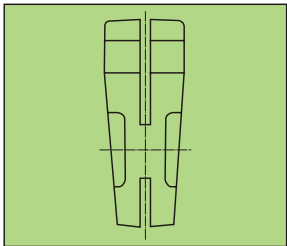
CHOSEN DEVICES AND VARIETIES OF GATE VALVES



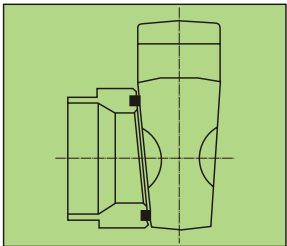
Locking device



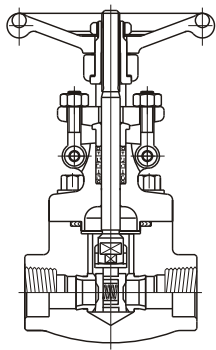
Position indicator



Flexible wedge

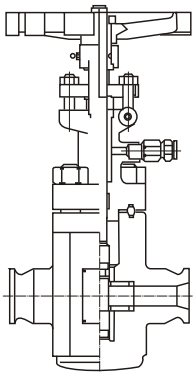


Insert PTFE seat



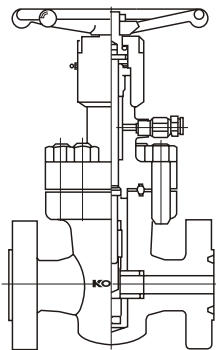
Dynamic double-wedge gate valves

API 6D Outside screw and yoke	CLASS	Materials
	600	Carbon Steel, Cryogenic Carbon Steel/ Alloy Steel, Stainless steel
	900/1500	
	2500	



Flat gate valves

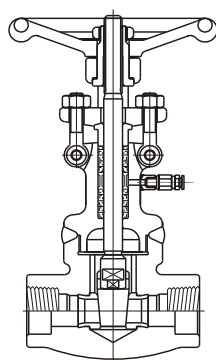
API 6D Outside screw and yoke	CLASS	Materials
	600	Carbon Steel, Cryogenic Carbon Steel/ Alloy Steel, Stainless steel
	900/1500	
	2500	



Flat gate valves

API 6A Outside screw and yoke	CLASS	Materials
	3000	Carbon Steel, Cryogenic Carbon Steel/Alloy Steel, Stainless steel
	5000	
	10000	

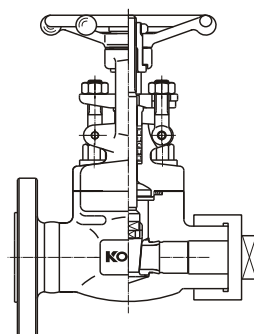
SPECIAL PURPOSES GATE VALVES



Welded bonnet
OS & Y
Packing
Distance ring
Injector sealing
gum valves
Solid wedge

Vacuum gate valves

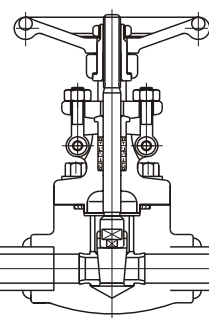
CLASS 800 API 602-BS 5352 Reduced port & full port	Temperature- pressure rate	Materials		
		Body/bonnet	Trim	Bolt
	1975 psi @ 100 F	Cast steel	13Cr	B7



Bolted
OS & Y
Cap fitting
connection
Solid wedge

For venting and/or releasing media

CLASS 800 API 602-BS 5352 Reduced port & full port	Temperature- pressure rate	Materials		
		Body/bonnet	Trim	Bolt
	1975 psi @ 100 F	Cast steel	13Cr	B7

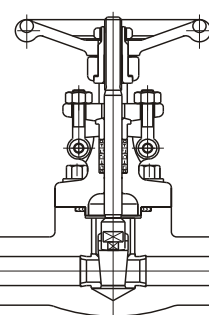


Bolted bonnet
OS & Y
Double end pipe
connection
Solid wedge

Coupling pipe valves

CLASS 800 API 602-BS 5352 Reduced port & full port	Temperature- pressure rate	Materials		
		Body/bonnet	Trim	Bolt
	1975 psi @ 100 F	Cast steel	13Cr	B7

Please explain pipe length to sale person when you order.



Bolted bonnet
OS & Y
Hoop connection
Solid wedge

Hoop gate valves

CLASS 800 API 602-BS 5352 Reduced port & full port	Temperature- pressure rate	Materials		
		Body/bonnet	Trim	Bolt
	1975 psi @ 100 F	Cast steel	13Cr	B7



FORGED STEEL GLOBE VALVES ,1/4-2" (8-50mm)
THREADED, SOCKET WELD, & FLANGED
ASME CLASS 800, 1500, 2500
FLANGED ASME CLASSES 150, 300, 600, 1500



Bolted Bonnet



Welded Bonnet



Pressure Seal Bonnet



KOJO 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.

GLOBE Valve Design Construction and Specifications:

KOJO globe valves conform to API602, and ASME B 16.34

Each are tested according to API 598, and marking is per MSS SP-25

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

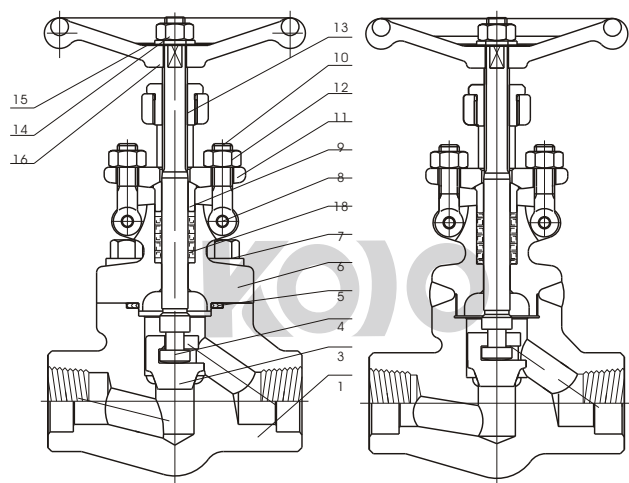
and seal welded bonnet or threaded and pressure seal bonnet

Integral backseat

Socket weld Ends to ASME B16.11

Screwed Ends (NPT) to ANSI/ASME B1.20.1

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)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; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 Alloy.

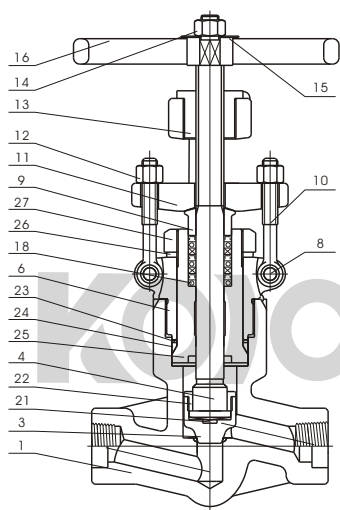
Carbon steel temperature-pressure rate

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/F6aHF	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)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

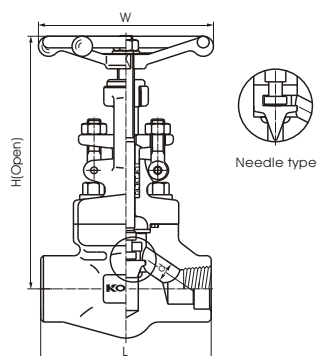
CL1500-3705 P.S.I @ 100° F

CL2500-6170 P.S.I @ 100° F

Main part materials list

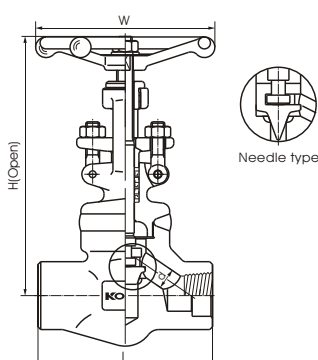
NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F91/410HF
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F91+HF
3	Disc	410	410	304	410	304(L)	316(L)	410+HF
4	Stem	410	410	304	410	304(L)	316(L)	410
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F91
8	Pin	410	410	410	410	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



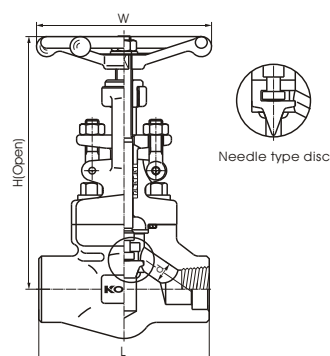
CL800 Bolted bonnet, full port & reducing port outside screw and yoke(OS & Y)
Threaded, butt-welded or socket welded ends; design to BS 5352.

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	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	
Height (angle 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	



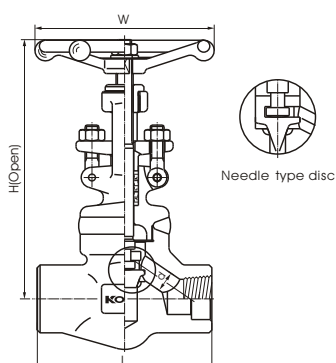
CL800 Welded bonnet, full port & reducing port outside screw and yoke(OS & Y)
Threaded, butt-welded or socket welded ends; design to BS 5352

Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	79	79	92	111	120	152	172	200	
Handwheel diameter	W	100	100	100	125	160	160	180	200	
Height	H	164	164	164	203	224	260	300	355	
Height (angle 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

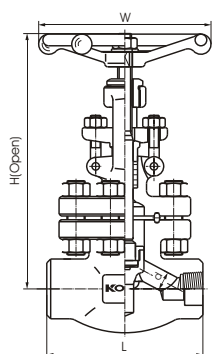
Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	92	111	111	120	152	172	200	220	-
Handwheel diameter	W	100	125	125	160	160	180	200	240	-
Height	H	171	207	207	240	258	330	355	370	-
Height (angle dimension)	d	7	12	15	20	28	32	40	45	-
Weight(Kg)		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 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	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	-
Height (angle dimension)	d		12	15	20	28	32	40	45	-
Weight(Kg)		2.70	3.4	3.3	6.0	5.6	10.3	14.2	18.0	-

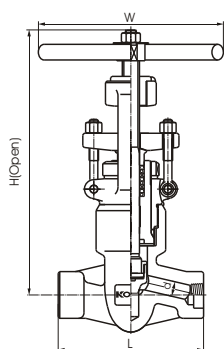
FEMALE THREADED AND SOCKET WELDED GLOBE VALVES



CL900-CL1500

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

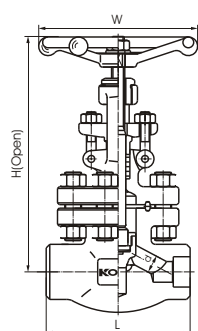
Specification(NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	110	110	150	150		210	235
Handwheel diameter	W	110	110	130	210		180	250
Height	H	227	227	300	307		40	448
Height(angle dinmension)	d	9	12	15	20		32	40
Weight(Kg)		5	5	10	11.5		22	37



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	
Height(angle dinmension)	d	12	15	20	28	32	40	
Weight(Kg)		11.5	10.8	10.5	19.6	21.1	55.4	

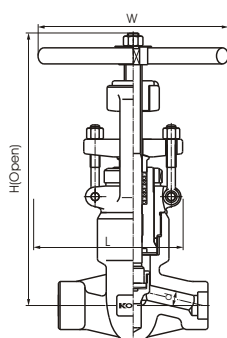


Welded bonnet

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	
Height(angle dinmension)	d	11	14	19		28	35	
Weight(Kg)		10	10.3	22.4		38	38	

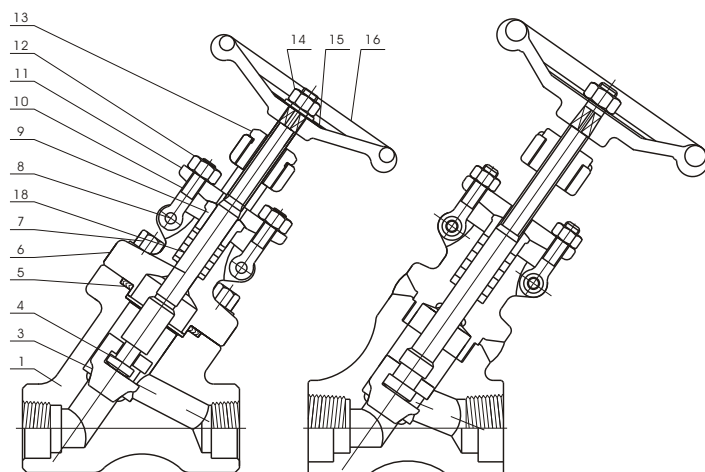


CL2500

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	
Weight(Kg)		12.3	11.6	10.8	26.0	28.4	60	
Height	H	376	378	380	490	490	540	
Height(angle dinmension)	d	11	14	19	25	28	35	

FEMALE THREADED AND SOCKET WELDED Y TYPE GLOBE VALVES



Application standards

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

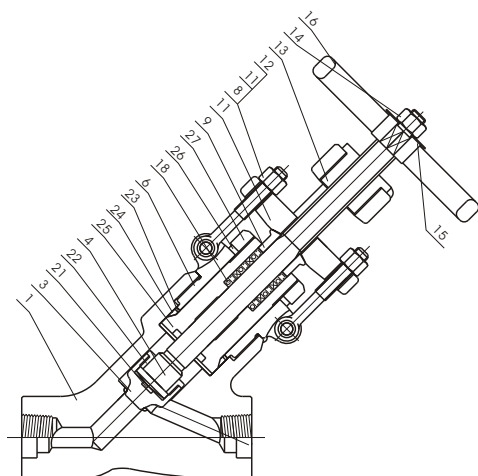
Carbon steel temperature-pressure rate

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

Main part materials list

NO.	Part name	A105/F6a	A105/F6aHF	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

- Design and manufacture conform to BS5352 MSS SP-118;
- Connection ends conform to:
 - Socket welded ends conform to ANSI B16.11;JB/T1751
 - Screw ends conform to ANSI B1.20.1;JB/T7306
 - Butt-welded ends conform to ANSI B16.25;JB/T12224
 - Flanged ends conform to ANSI B16.5;JB79
- Test and inspection conform to:
 - API 598; GB/T13927; JB/T9092
- Structure features:
 - A threaded and pressure seal bonnet; Y type and T type
- Materials conform to ANSI/ASTM.
- Main materials:
 - A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 Alloy; Hastelloy.

Carbon steel temperature-pressure rate

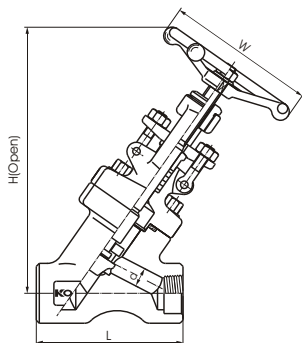
CL1500-3705 P.S.I @ 100° F

CL2500-6170 P.S.I @ 100° F

Main part materials list

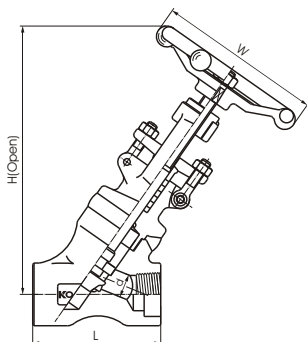
NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F91/410HF
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F91+HF
3	Disc	410	410	304	410	304(L)	316(L)	410+HF
4	Stem	410	410	304	410	304(L)	316(L)	410
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F91
8	Pin	410	410	410	410	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



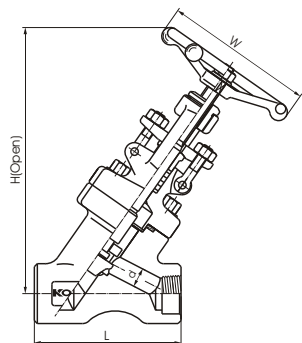
CL800 Welded bonnet, full port & reducing port outside screw and yoke(OS & Y)
Threaded, butt-welded or socket welded ends; design to BS5352

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	



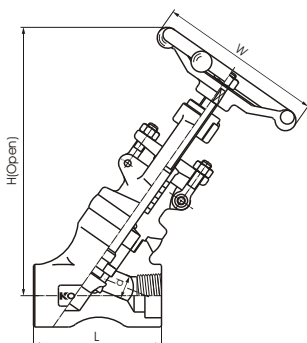
CL800 Welded bonnet, full port & reducing port outside screw and yoke(OS & Y)
Threaded, butt-welded or socket welded ends; design to BS5352

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	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 dimension)	d	7	9	13	17.5	23	30	35	46	
Weight(Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	16	



CL900-CL1500 Bolted bonnet, full port & outside screw and yoke (OS & Y)
Threaded, butt-welded or socket welded ends; design to BS5352

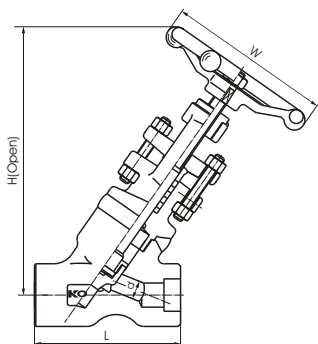
Specification(NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	98	111	111	140	140	155	170	
Handwheel diameter	W	100	125	125	160	160	180	200	
Height	H	175	175	215	215	254	305	305	
Height(angle dimension)	d	9	12	15	20	28	32	40	
Weight(Kg)		2.6	4.6	4.6	9.3	9.3	14	19.6	



CL900-CL1500 Welded bonnet, full port & outside screw and yoke (OS & Y)
Threaded, butt-welded or socket welded ends; design to BS5352

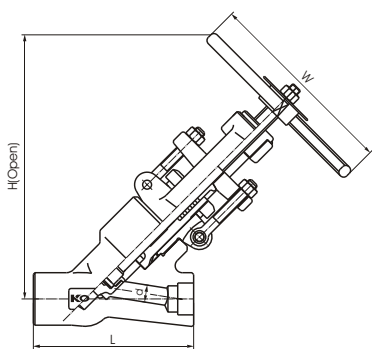
Specification(NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	92	100	100	140	140	155	170	
Handwheel diameter	W	100	125	125	160	160	180	200	
Height	H	175	207	207	280	280	295	350	
Height(angle dimension)	d	9	12	15	20	28	32	40	
Weight(Kg)		1.8	3.5	3.5	8.0	8.0	12	16	

Y TYPE GLOBE VALVES



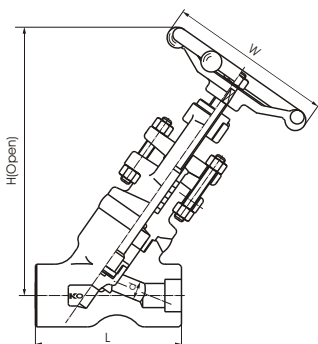
CL2500 Welded bonnet, full port outside screw and yoke(OS & Y)
Socket welded, design conform to ASME16.34

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	200	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



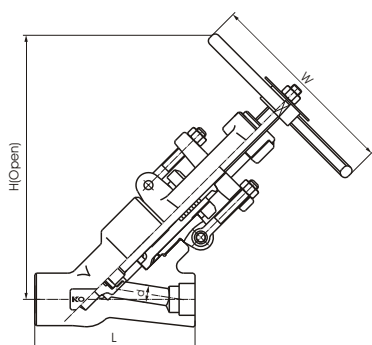
CL2500 Pressure seal bonnet, full port outside screw and yoke(OS & Y)
Socket welded, design conform to ASME16.34

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	200	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

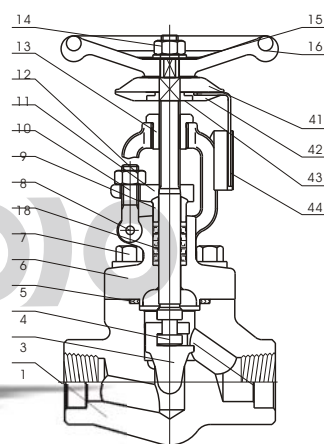
Specification(NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	155	155	155	155		225	225
Handwheel diameter	W	180	180	180	180		400	400
Height	H	350	350	350	380		453	453
Height (angle dimension)	d	9	11	11	15		26	28
Weight(Kg)		9.6	9.6	9.4	10.5		34	36



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



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:
 - 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.

KOJO regulating valves is compose of combination valves and flow control staff guage. because equip with micrometer graduation and finger, when operator turn hand wheel around, finger would move ten percent.

KOJO 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 facing is more corrosion resistant, anti-abrasive and abrasion resistance.

KOJO regulating valves is manual operate, liner fow regulating function, abrasion resistance.

If you want to equip with locking device , please note you KOJO requirement.

Carbon steel temperature-pressure rate

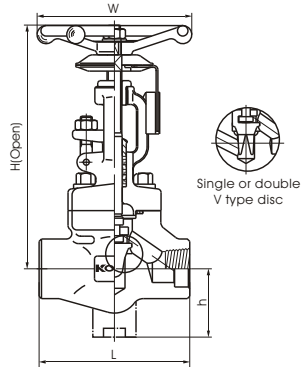
CL150-285 P.S.I @ 100 F
 CL300-740 P.S.I @ 100 F
 CL600-1480 P.S.I @ 100 F
 CL800-1975 P.S.I @ 100 F
 CL1500-3705 P.S.I @ 100 F

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

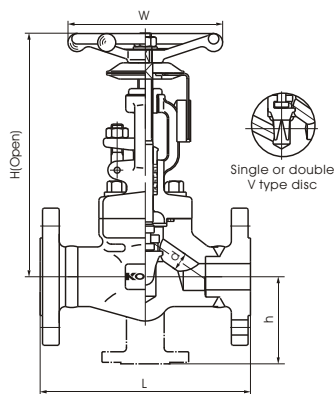
LINEAR REGULATING VALVES

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 dimension)	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

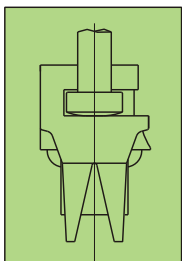
CL150-300-600 Bolted bonnet, reducing port outside screw and yoke (OS & Y) Threaded, butt-welded or socket welded ends; design to BS5352



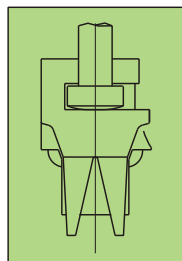
Specification(NPS)	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	CL150	-	-	108	118	127	-	165	203
	L(RF) CL300	-	-	153	178	203	-	229	267
	L1(BW) CL600	-	-	165	191	216	-	241	292
Handwheel diameter	W	-	-	100	100	125	-	160	180
Height	H	-	-	164	200	220	-	295	350
Height (angle dimension)	SW & NPT(Rc)	-	-	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

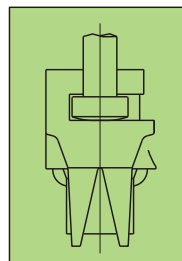
Regulating valves operation



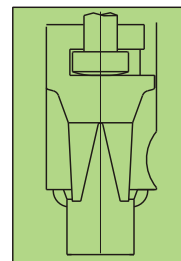
When valves full closed, disc and seat could be shut tightly.



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

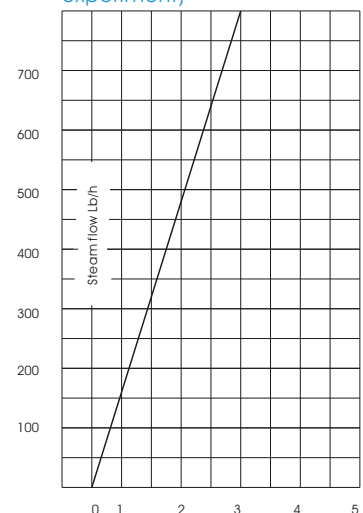


When the disc in the middle of the full lifting height, medium flow can be reduced or increased according to control scale.

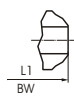
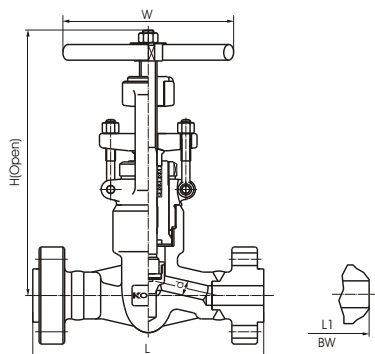
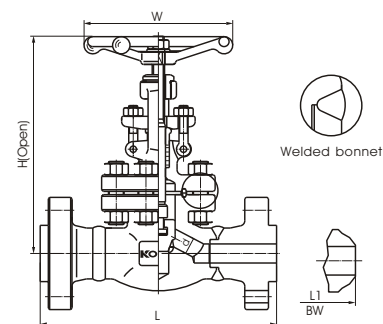
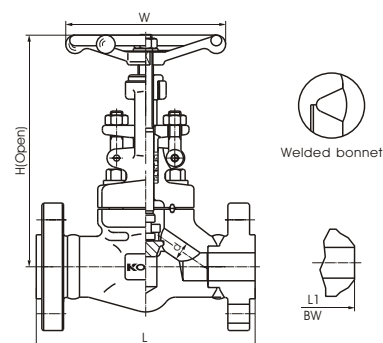
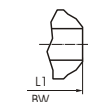
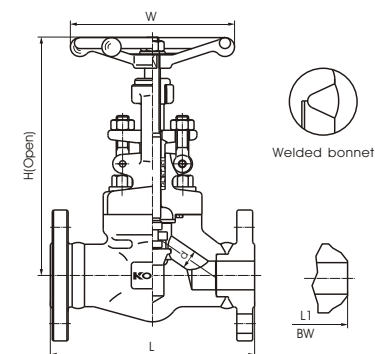


When disc in full open position, valves permit max flow to go through its port, medium flow can be reduced or acc. to control scale.

Typical stream flow chart(from experiment)



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 dimension)		d	-	-	9	13	17.5	23	30	35	
Weight (Kg)	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	

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) L(RTJ)	-	-	216	229	254	279	305	368
		-	-	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 dimension)	d	-	-	12	15	20	28	32	40
Weight (Kg)		-	-	11	13.2	17.4	19	24.5	31

If you want to order one piece body, please 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

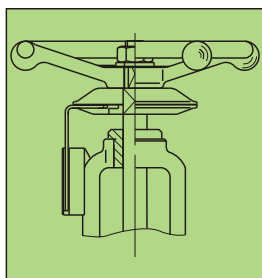
Specification(NPS)	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RF), L1(BW) L(RTJ)	-	-	264	273	308	-	384	451
		-	-	264	273	308	-	387	454
Handwheel diameter	W	-	-	125	160	200	-	250	240
Height	H	-	-	207	240	258	-	355	300
Height(angle dimension)	d	-	-	11	14	19	-	28	35
Weight (Kg)		-	-	19.5	21.5	42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

CL2500

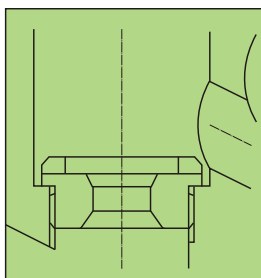
Pressure seal bonnet, full port outside screw and yoke(OS & Y)
Welding flange or butt-welded design conform to ASME B16.34

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) L(RTJ)	-	-	264	273	308	349	384	451
		-	-	264	273	308	349	387	454
Handwheel diameter	W	-	-	200	200	280	280	280	300
Height	H	-	-	320	320	320	440	440	490
Height(angle dimension)	d	-	-	11	14	19	25	28	35
Weight(Kg)		-	-	21.5	24.7	30.4	48.1	58.1	130

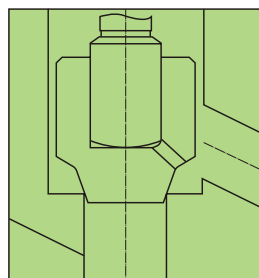
CHOSEN DEVICES AND VARIETIES OF GLOBE VALVES



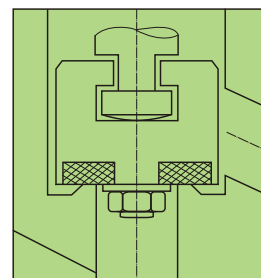
Position indicator



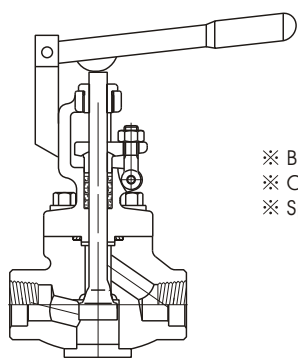
Renewable seat



Globe check valve disc



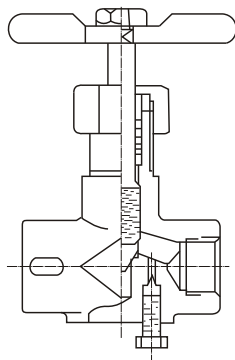
Insert PTFE seat



- ※ Bolted
- ※ OS & Y
- ※ Spring operation

Manual-automatic shut-off valves

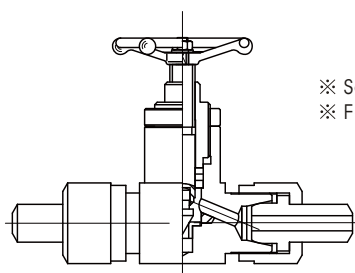
CLASS	Materials
800	Carbon Steel Alloy Steel Stainless steel
1500	
Flange and butt-welded	



- ※ Screwed bonnet
- ※ Forged structure

Instrument valves

CLASS	Materials
3000	Carbon steel Stainless steel
6000	

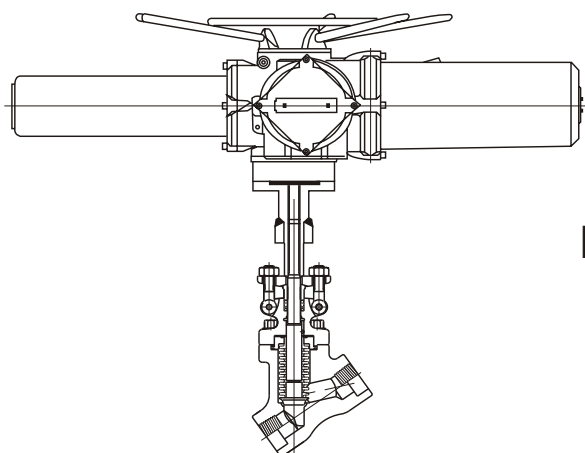


- ※ Screwed bonnet
- ※ Forged structure

Needle valves

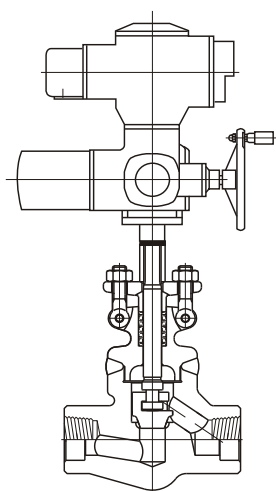
CLASS	Materials
800	Carbon steel Stainless steel
1500	

AVAILABLE ACTUATION TYPES



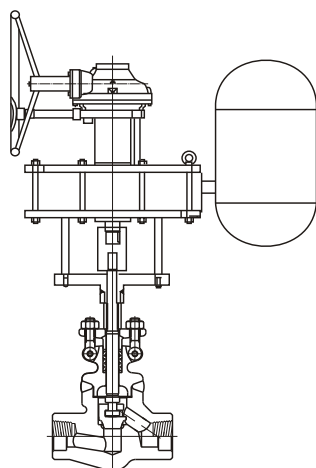
Electric actuator

CLASS	Materials
150~2500	Cart steel, Stainless steel



Electric actuator

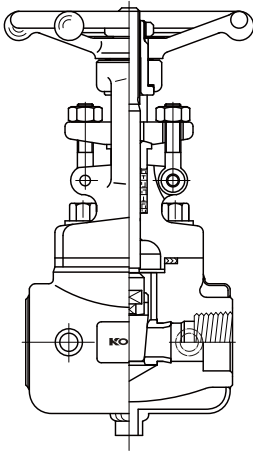
CLASS	Materials
150~2500	Cart steel, Stainless steel



Pneumatic actuator

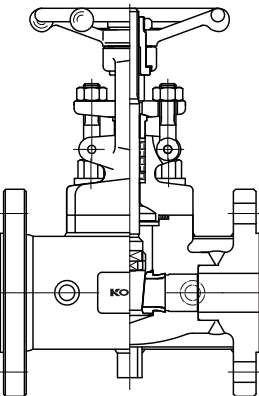
CLASS	Materials
150~2500	Cart steel, Stainless steel

JACKETED GLOBE VALVES



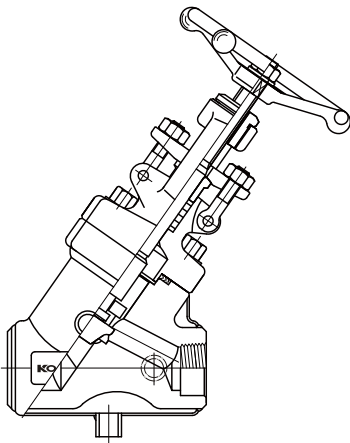
Jacketed valves
(socket welding/screw/butt-welding)

CLASS	Material
150~2500	Cart steel, Stainless steel



Jacketed valves (flange)

CLASS	Material
150~2500	Cart steel, Stainless steel



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

CLASS	Material
150~2500	Cart steel, Stainless steel



FORGED STEEL CHECK VALVES ,1/4-2" (8-50mm)
THREADED, SOCKET WELD, & FLANGED
ASME CLASS 800, 1500, 2500
FLANGED ASME CLASSES 150, 300, 600, 1500



Bolted Bonnet



Welded Bonnet



Pressure Seal Bonnet

KOJO 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. The check valves are also available in three different design configurations. These are piston check, ball check, or swing check designs.

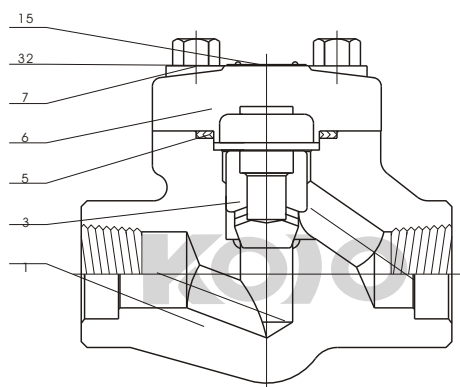
Check Valve Design Construction and Specifications:

KOJO check valves conform to API 602, and ASME B 16.34
Each are tested according to API 598, and marking is per MSS SP-25

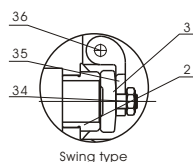
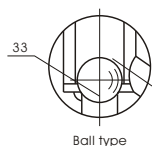
Construction is as follows:

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 B 16.11
Screwed Ends (NPT) to ANSI/ASME B 1.20.1

FEMALE THREADED AND SOCKET WELDED CHECK VALVES



Please mark in you offer if you need load spring



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:

Bolted 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.

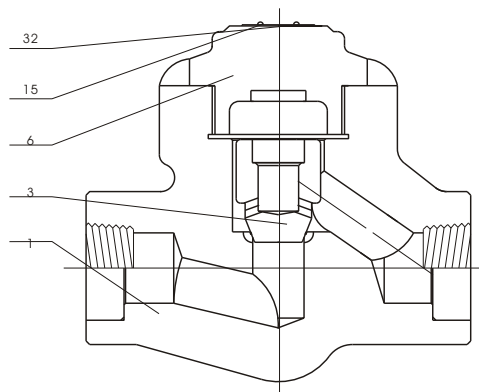
Carbon steel temperature-pressure rate

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

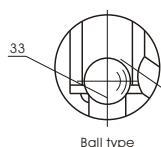
Main part materials list

NO.	Part name	A105/F6a	A105/F6aHF5	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Seat ring	410	410HF	304	410HF	304(L)	316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
32	Revit	AL	AL	AL	AL	AL	AL	AL
33	Steel ball	430	430	304	STL	316(L)	316(L)	STL
34	Disc nut	2H	2H	8	8	8(M)	8(M)	8M
35	Hinge	410	410	304	410	316(L)	316(L)	F51
36	Pin	410	410	304	410	304(L)	316(L)	F51

FEMALE THREADED AND SOCKET WELDED CHECK VALVES



Please mark in you offer if you need loadspring



Application standards

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

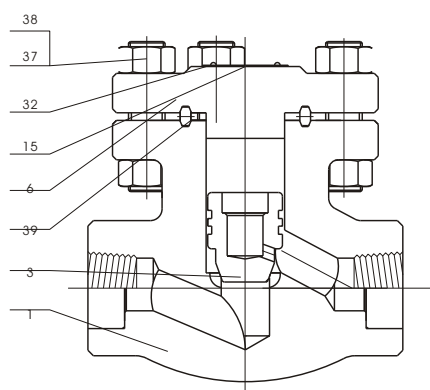
Carbon steel temperature-pressure rate

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

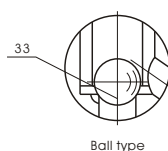
Main part materials list

NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	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
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
32	Revit	AL	AL	AL	AL	AL	AL	AL
33	Steel ball	304	304	304	304	304(L)	316(L)	F51

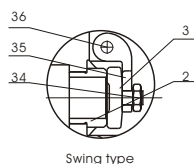
FEMALE THREADED AND SOCKET WELDED CHECK VALVES



Please mark in your offer if you need load spring



Ball type



Swing type

Application standards

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

Carbon steel temperature-pressure rate

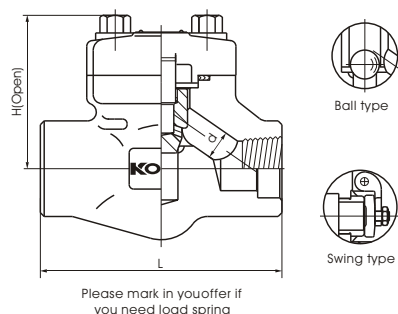
CL150-285 PS.I @ 100° F
 CL300-740 PS.I @ 100° F
 CL600-1480 PS.I @ 100° F
 CL800-1975 PS.I @ 100° F
 CL1500-3705 PS.I @ 100° F
 CL2500-6170 PS.I @ 100° F

Main part materials list

NO.	Part name	A105/F6a	A105/F6aHF	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Seat ring	410	410HF	304	410HF	304(L)	316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
32	Revit	AL	AL	AL	AL	AL	AL	AL
33	Steel ball	430	430	304	STL	316(L)	316(L)	STL
34	Disc nut	2H	2H	8	8	8(M)	8(M)	8M
35	Hinge	410	410	304	410	316(L)	316(L)	F51
36	Pin	410	410	304	410	304(L)	316(L)	F51
37	Screwed stud	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
38	Nut	2H	2H	8	8	8(M)	8(M)	8(M)
39	Metal ring	304	304	304	304	304(L)	316(L)	F51

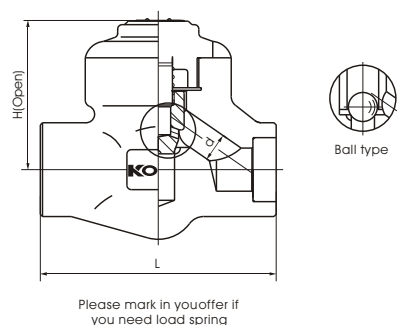
FEMALE THREADED AND SOCKET WELDED CHECK VALVES

CL800 Bolted bonnet, full port and reducing port Threaded, butt-welded or socket welded ends; design to BS5352



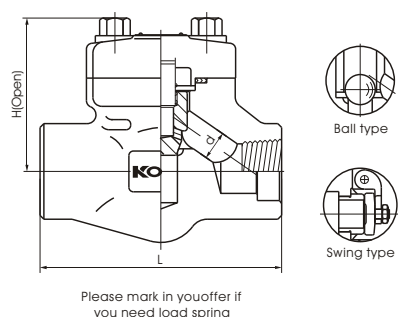
Specification (NPS)	R.P			1/2	3/4	1	1 1/4	1 1/2	2	
	F.P		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	Lift	79	79	92	111	120	152	172	200
		Swing	79	79	92	111	120	120	140	178
Height	H	Lift	61	61	61	78	84	84	118	132
		Swing	61	61	61	78	84	84	120	133
Height (angle dimension)	d	Lift	7	9	13	17.5	23	30	35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

CL800 Welded bonnet, full port and reducing port Threaded, butt-welded or socket welded ends; design to BS5352



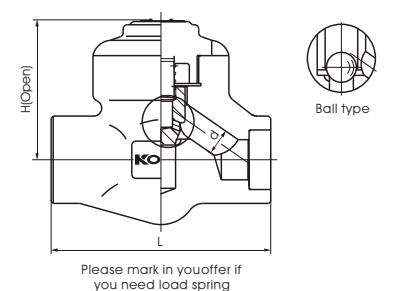
Specification (NPS)	R.P		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	79	79	92	111	120	152	172	200
Height	H	61	61	61	78	84	103	118	132
Height (angle dimension)	d	7	9	13	17.5	23	30	35	46
Weight(Kg)		1.2	1.3	1.5	3.0	3.9	6.0	10	12

CL900-CL1500 Bolted bonnet, full port and reducing port 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	
	F.P		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	Lift	92	111	111	120	152	172	200	
		Swing	92	111	111	120	120	140	178	
Height	H	Lift	61	78	78	84	103	118	132	
		Swing	61	78	78	84	101	120	133	
Height (angle dimension)	d	Lift	7	12	15	20	28	32	40	
		Swing	8	10.5	13.5	18	24	29	45	
Weight(Kg)		Lift	1.5	3.4	3.3	4.2	6.3	10.5	12.5	
		Swing	1.5	3.4	3.3	4.2	5.0	8.5	10.9	

CL900-CL1500 Welded bonnet, full port and reducing port Threaded, butt-welded or socket welded ends; design to BS5352

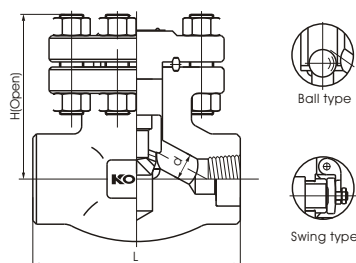


Specification (NPS)	R.P		1/2	3/4	1	1 1/4	1 1/2	2	
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	92	111	111	120	152	172		200
Height	H	61	78	78	84	103	118		132
Height (angle dimension)	d	7	12	15	20	28	32		40
Weight(Kg)		1.3	3.1	3.1	3.9	5.8	10.0		11.5

FEMALE THREADED AND SOCKET WELDED CHECK VALVES

CL900-CL1500

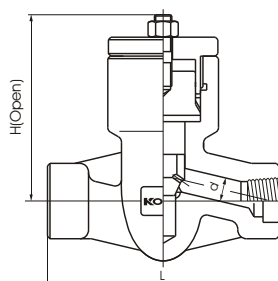
Bolted bonnet, full port and reducing port
Threaded, butt-welded or socket welded ends; design to BS5352



Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	110	110	110	110	150	150	210	235
Height	H	166	166	171	207	240	258	330	355
Height (angle dimension)	d	Lift	9	10	12	15	20	28	32
	Swing	8	10.5	13.5	18	24	29	36.5	45
Weight(Kg)	Lift	2	2.1	1.9	4	5.1	7.2	12.1	14
	Swing	1.9	2.3	2.3	4.35	5.25	7.8	12.5	14.6

CL900-CL1500

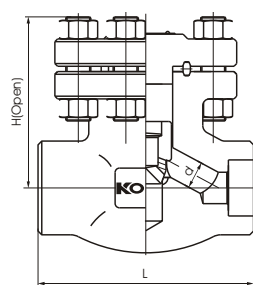
Pressure seal bonnet, full port and reducing port
Threaded, butt-welded or socket welded ends; design to BS5352



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		140	140	140	178	216	216		
Height	H		117	117	117	152	195	195		
Height (angle dimension)	d		12	15	20	28	32	40		
Weight(Kg)			7.5	7.0	6.8	18.5	20.3	22		

CL2500

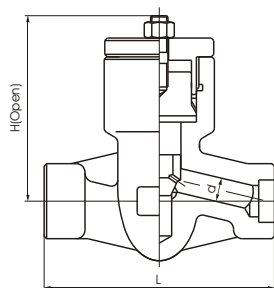
Bolted bonnet, full port
Threaded, butt-welded or socket welded ends; design to ASME B16.34



Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	150	150	150	150	210	235	235	235
Height	H	166	166	171	207	240	258	330	355
Height (angle dimension)	d	7.5	10.5	11	14	19	25	28	35
Weight(Kg)		1.9	2.3	17	46	62	73	58	85

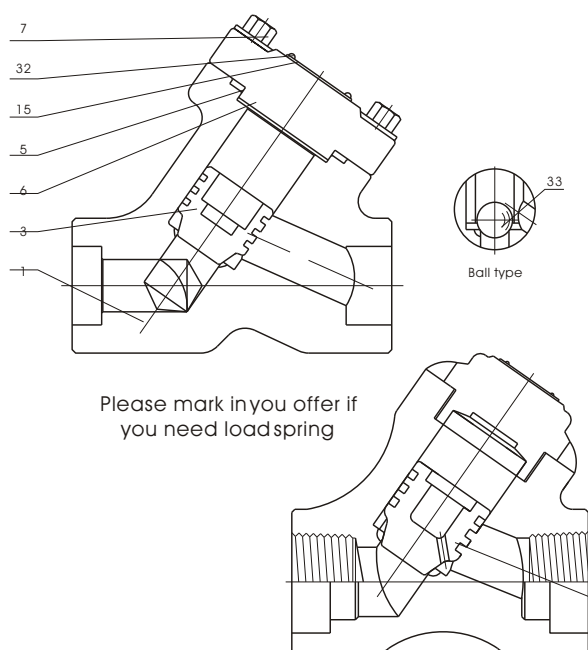
CL2500

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



Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L			186	186	186	232	232	279
Height	H			117	117	117	152	152	195
Height (angle dimension)	d			11	14	19	25	28	35
Weight(Kg)				11.8	11	10.5	23	26.4	39

FEMALE THREADED AND SOCKET WELDED CHECK VALVES



Application standards

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

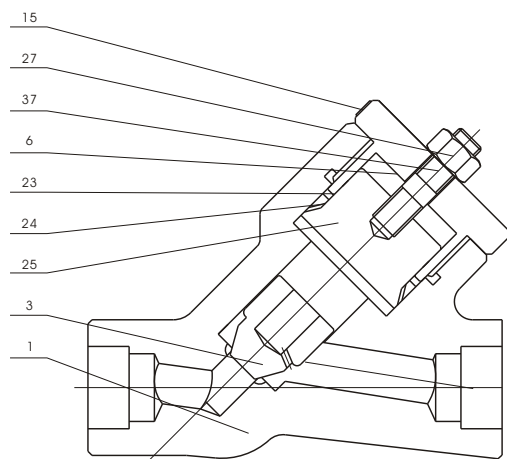
Carbon steel temperature-pressure rate

CL1500-3705 P.S.I @ 100° F
 CL2500-6170 P.S.I @ 100° F
 CL4500-1111 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	LF2	F11	F304(L)	F316(L)	F51
3	Disc	410	410HF	304	410HF	304(L)	316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
32	Revit	AL	AL	AL	AL	AL	AL	AL
33	Steel ball	430	430	304	STL	316(L)	316(L)	STL

Y TYPE PRESSURE SEALED CHECK VALVES



Application standards

- Design and manufacture conform to ASME B16.34 MSS SP-118;
- Connection ends conform to:
 - Socket welded ends conform to ANSI B16.11;JB/T1751
 - Screw ends conform to ANSI B1.20.1;JB/T7306
 - Butt-welded ends conform to ANSI B16.25;JB/T12224
 - Flanged ends conform to ANSI B16.5;JB79
- Test and inspection conform to: API 598; GB/T13927; JB/T9092
- Structure features:
A threaded and pressure seal bonnet; Y type and T type.
- Materials conform to ANSI/ASTM.
- Main materials:
A105; LF2; F5; F11; F22; 304(L); 316(L); F347;
F321; F51; Monel; 20 Alloy.

Carbon steel temperature-pressure rate

CL1500-3705 P.S.I @ 100° F

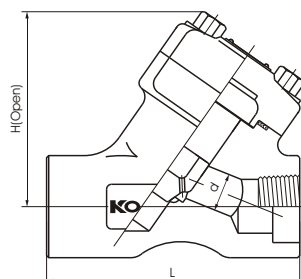
CL2500-6170 P.S.I @ 100° F

CL4500-1111 P.S.I @ 100° F

Main part materials list

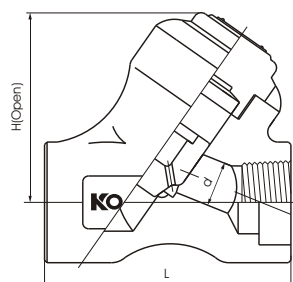
NO.	Part name	A105/F6a	A105/F6aHF	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
23	Seal ring gasket	420	420	304	304	304(L)	316(L)	410
24	P.S. ring	304	304	304	304	316L	316L	316L
25	P.S. seat	F410	F410	F304	F410	F304	F316	F51
27	Lift nut	2H	2H	8	8	8(M)	8(M)	8M
37	Lift stud	B7	B7	L7	B16	B8(M)	B8(M)	B8M

Y TYPE CHECK VALVES



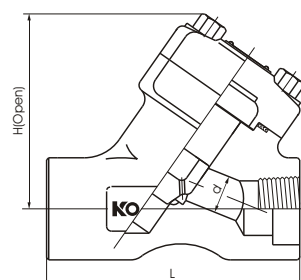
CL800 Bolted bonnet, full port and reducing port
Threaded, butt-welded or socket welded ends; design to BS5352

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	
Height	H	70	70	70	100	110	120	120	150	
Height(angle dimension)	d	7	10	13	17.5	23	30	35	46	
Weight(Kg)		2.2	2.2	2.1	4.2	9	8.9	10	18.6	



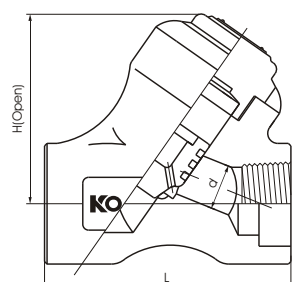
CL800 Welded bonnet, full port and reducing port
Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	R.P		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	79	79	92	100	140	140	155	170	
Height	H	65	65	65	95	105	110	110	140	
Height(angle dimension)	d	7	10	13	17.5	23	30	35	46	
Weight(Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	16	



CL900-CL1500 Bolted bonnet, full port
Threaded, butt-welded or socket welded ends; design to BS5352

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



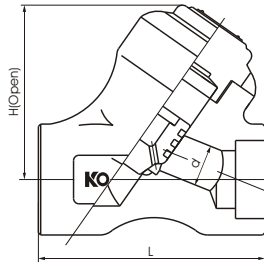
CL900-CL1500 Welded bonnet, full port
Threaded, butt-welded or socket welded ends; design to BS5352

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

Y TYPE CHECK VALVES

CL2500

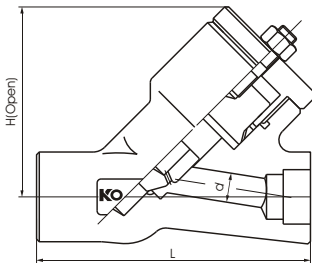
Welded bonnet, full port
Threaded, butt-welded or socket welded ends; design to ASME B16.34



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

CL2500

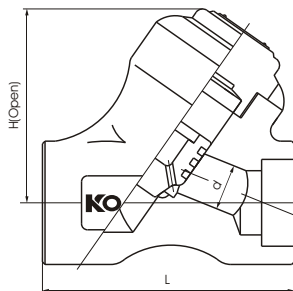
Pressure seal, bolted bonnet, full port
Threaded, butt-welded or socket welded ends; design to ASME B16.34



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

CL4500

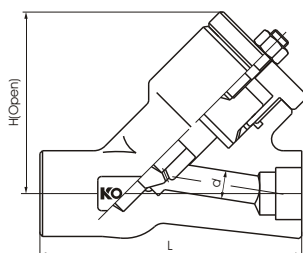
Welded bonnet, full port
Threaded, butt-welded or socket welded ends; design to ASME B16.34



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

CL4500

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

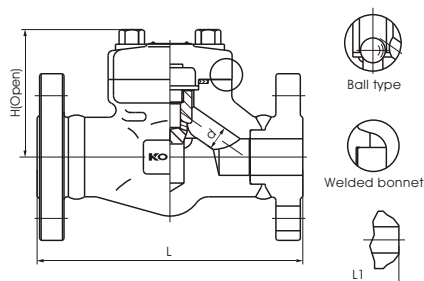


Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	200	200	200	200	250	250	330
Height	H	140	140	140	140	160	160	180
Height(angle dimension)	d	9	11	11	15	20	26	28
Weight(Kg)		20	20	20	20	28	28	45

FLANGE AND BUTT-WELDED CHECK VALVES

CL150-300-600

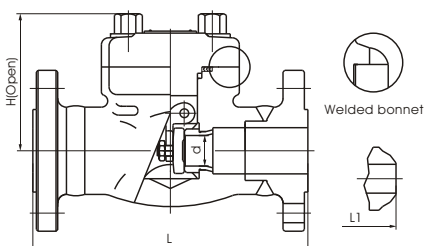
Bolted bonnet, full port
Flange-welded or butt-welded ends; design to BS5352



Specification(NPS)	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	CL150	-	-	108	118	127	140	165	203
	CL300	-	-	153	178	203	216	229	267
	CL600	-	-	165	191	216	229	241	292
Height	CL150	-	-	77	81	93	95	103	118
	CL300/600	-	-	61	78	84	101	120	133
Height(angle dimension)		-	-	10	13	17.5	23	30	35
Weight (Kg)	CL150 RF	-	-	3.6	4.6	8.5	9.2	12.5	14.8
	BW	-	-	3.0	3.6	7.6	8.5	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

CL150-300-600

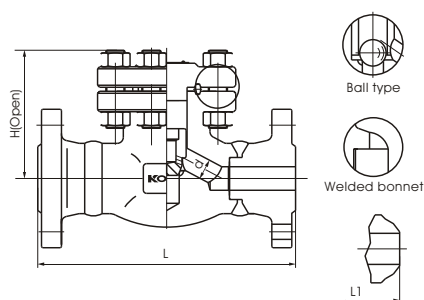
Bolted bonnet, full port
Flange-welded or butt-welded ends; design to BS5352



Specification(NPS)	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	CL150	-	-	108	118	127	140	165	203
	CL300	-	-	153	178	203	216	229	267
	CL600	-	-	165	191	216	229	241	292
Height	CL150	-	-	77	81	93	95	103	118
	CL300/600	-	-	61	78	84	101	120	133
Height(angle dimension)		-	-	10.5	13.5	18	24	29	36.5
Weight (Kg)	CL150 RF	-	-	3.6	4.6	8.5	9.2	12.5	14.8
	BW	-	-	3.0	3.6	7.6	8.5	11.3	13.6
	CL300 RF	-	-	3.7	4.8	8.8	9.6	13.7	17.8
	BW	-	-	3.2	4.3	8.0	8.6	12.7	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

CL150-300-600

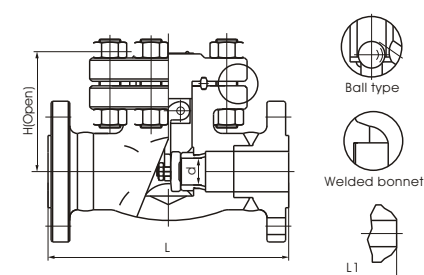
Bolted bonnet, reducing port
Flange-welded or butt-welded ends; design to BS5352



Specification(NPS)	R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	CL150	-	-	108	118	127	140	165	203
	CL300	-	-	153	178	203	216	229	267
	CL600	-	-	165	191	216	229	241	292
Height	CL150	-	-	77	81	93	95	103	118
	CL300/600	-	-	61	78	84	101	120	133
Height(angle dimension)		-	-	10	13	17.5	23	30	35
Weight (Kg)	CL150 RF	-	-	3.2	3.5	4.6	5.2	7.0	16
	BW	-	-	2.8	3.0	4.0	4.6	6.3	15
	CL300 RF	-	-	4.6	6.1	9.1	12	16	21
	BW	-	-	4.1	5.7	8.4	11.2	14.5	19.5
	CL600 RF	-	-	4.8	6.3	9.3	13	16.5	22
	BW	-	-	4.4	5.9	8.7	12.1	15.8	20.8

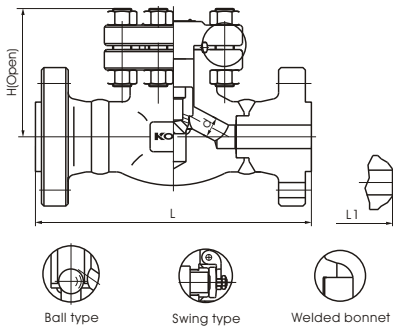
CL150-300-600

Bolted bonnet, reducing port
Flange-welded or butt-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	CL150	-	-	108	118	127	140	165	203
	CL300	-	-	153	178	203	216	229	267
	CL600	-	-	165	191	216	229	241	292
Height	CL150	-	-	77	81	93	95	103	118
	CL300/600	-	-	61	78	84	101	120	133
Height(angle dimension)		-	-	10.5	13.5	18	24	29	36.5
Weight (Kg)	CL150 RF	-	-	3.6	4.6	8.5	9.2	12.5	14.8
	BW	-	-	3.0	3.6	7.6	8.5	11.3	13.6
	CL300 RF	-	-	3.7	4.8	8.8	9.6	13.7	17.8
	BW	-	-	3.2	4.3	8.0	8.6	12.7	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

FLANGE AND BUTT-WELDED CHECK VALVES



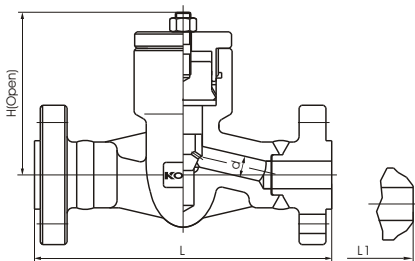
CL900-CL1500

Bolted bonnet, full port
Flange-welded or butt-welded ends; design to BS5352

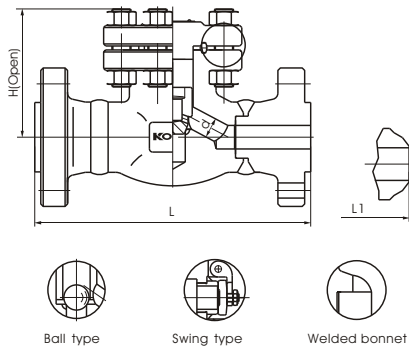
Specification(NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RJ) L1(BW)	216	229	254	280	305	371
Height	H	81	93	95	101	118	130
Height (angle dimension)	Lift	12	15	20	28	32	40
	Swing	13.5	18	24	29	36.5	45
Weight(Kg)	Lift	5.2	6.8	10.5	28	18	24
	Swing	5.0	6.1	10.8	29	17.6	27

CL900-CL1500

Pressure seal, bolted bonnet, full port and reducing port
Flange-welded or butt-welded ends; design to BS5352



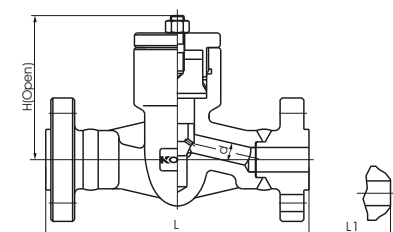
Specification(NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RF), L1(BW)	216	229	254	280	305	268	
	L(RTJ)	216	229	254	280	305	371	
Height	H	117	117	117	152	152	195	
Height (angle dimension)	d	12	15	20	28	32	40	
		10.5	11.9	13.9	19.9	26.9	32.5	



CL2500

Bolted bonnet, full port
Flange-welded or butt-welded ends; design to ASME B16.34

Specification(NPS)	F.P	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RF), L1(BW)	264	273	308	349	384	450
	L(RTJ)	264	273	308	352	387	454
Height	H	81	93	95	101	118	130
Height (angle dimension)	Lift	12	15	20	28	32	40
	Swing	10.5	13.5	18	24	29	36.5
Weight(Kg)	Lift	17	21	28	14.5	58	85
	Swing	5.0	6.1	10.8	11.2	17.6	27



CL2500

pressure seal, bolted bonnet, full port
Flange-welded or butt-welded ends; design to ASME B16.34

Specification(NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L(RF), L1(BW)	264	273	308	349	384	450	
	L(RTJ)	264	273	308	352	387	454	
Height	H	117	117	117	152	152	195	
Height (angle dimension)	d	12	15	20	32	28	40	
		12.6	14.9	16.5	24.8	30	35	



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