



**Innovations designed
to improve operations
profitability**

YDB VALVE LLP

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www.ydbvalves.com



About us

YDB VALVES LLP, a pioneer manufacturing company having good experience in the designing and manufacturing of a new concept instrumentation Valves: Manifolds, Monoflanges, SBB & DBB Valves both in needle and ball types, Floating and Trunnion design Ball Valves, strictly produced in according to the most stringent quality standards of safety and efficiency.

We have a fully well-equipped modern in-house manufacturing facility using CNC lathes, VMC, etc. with highly motivated team and up to date technology assisting us to achieve reliable products at competitive price with better product flexibility, consistency and optimum service.

Our experience in the understanding of applications requirements, combined with our high flexibility, allows us to develop customized solutions designed for customers' specific needs.

Our products are machined from the materials CF8M, SS316, SS316L, Duplex, Super Duplex, Monel, Inconel, etc.

Moreover, our valves production can be completed with complementary accessories, something that makes YDB VALVES a favorite and reliable partner for those companies that supply 'packages' of various matching goods. Our products are widely use in the Chemical, Petrochemical, Oil & Gas, Off-Shore, On-Shore, Power Generation, Naval industries, etc., used as components of plants and machineries with a high technological value.

Primary Isolation Valve Application

- Chemical
- Pharmaceutical
- Marine
- Packaging
- Printing Industries
- Architectural
- Electronic
- Power Generation
- Laboratory
- Oil and Gas
- Petro-Chemical
- Power

Our Company



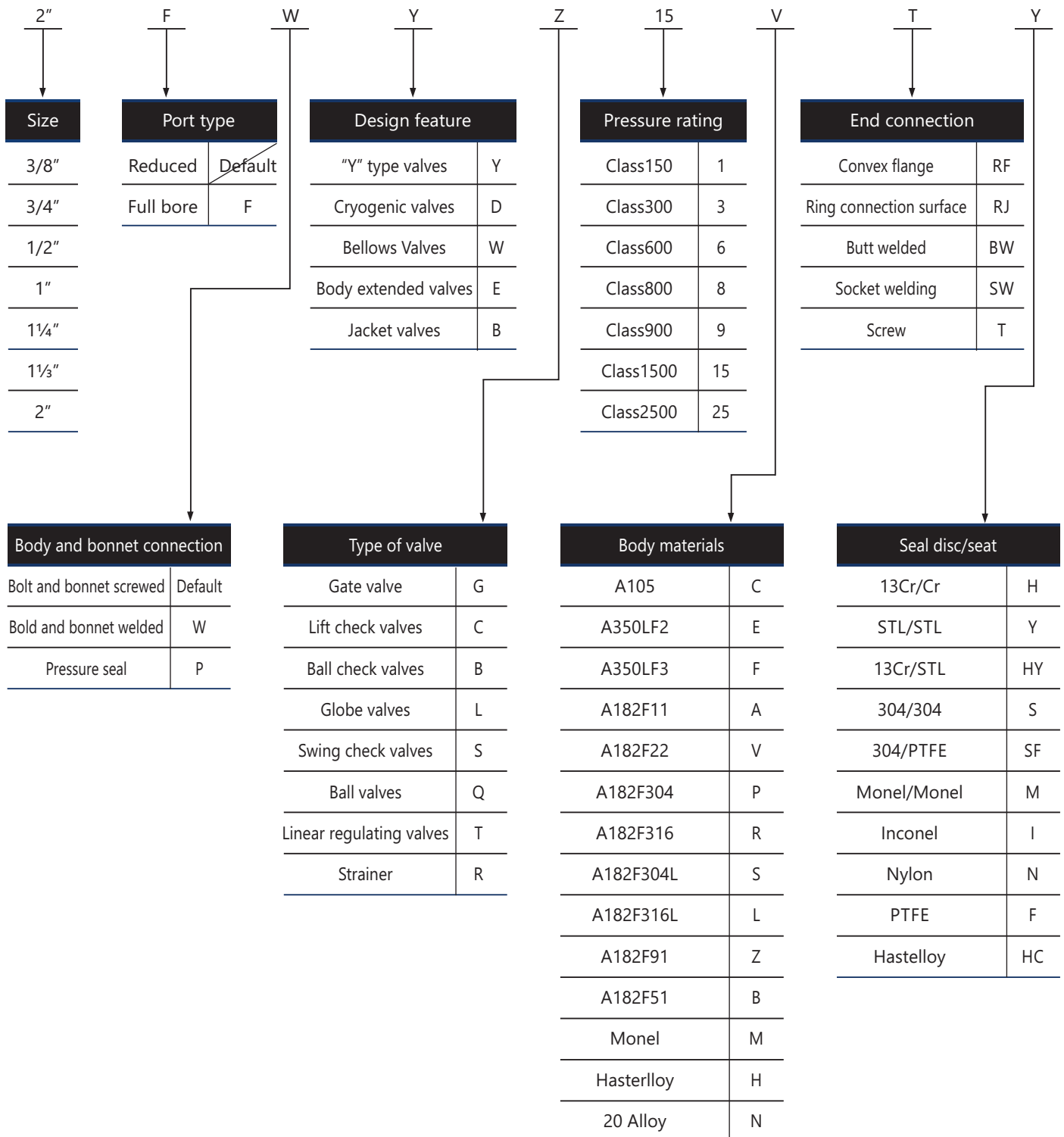
We have well equipped modern manufacturing facility with good motivated skilled experience engineering and production staff. We manufacture each and every component of our products using CNC Lathes, Vertical Machining Centre, Manual Lathes Machine etc. Within given tolerances by closely monitoring critical dimensions, surface finishes, run out, sharp edges etc.

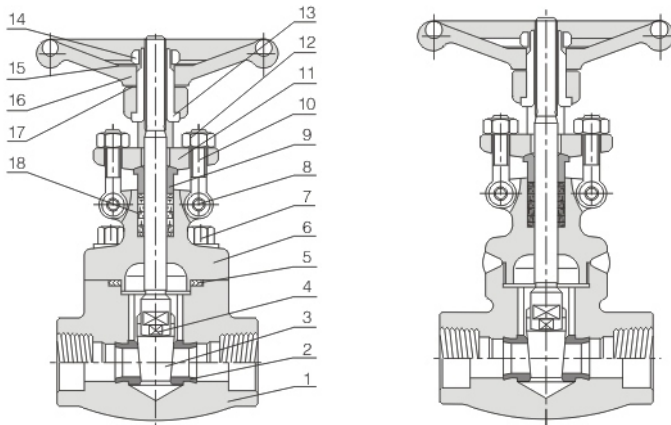


After referring and meeting the requirements as per drawing, under rigid quality controlled procedures approved to ISO 9001: 2015 which ensures consistent quality and high performance products.

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.





Application Standards

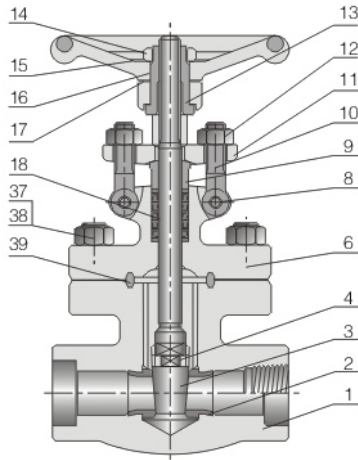
1. Design and manufacture conform to: API 602, BS5352, ASME B16.34
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; 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; 20Alloy.

Carbon steel temperature-pressure rate

CL-150-285P.S.I.@100°F CL-300-740P.S.I.@100°F CL600-1480P.S.I.@100°F CL800-1975P.S.I.@100°F CL1500-3705P.S.I.@100°F

Main part material 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	Flexible graphite	Flexible graphite	Flexible graphite	Flexible graphite	Flexible graphite	Flexible graphite	Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	410	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
11	Gland flange	A105	A105	A105	A105	F304	F304	F304
12	Hex nut	2H	2H	4	7	8(M)	8(M)	8(M)
13	Stem nut	420	420	420	420	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



Application Standards

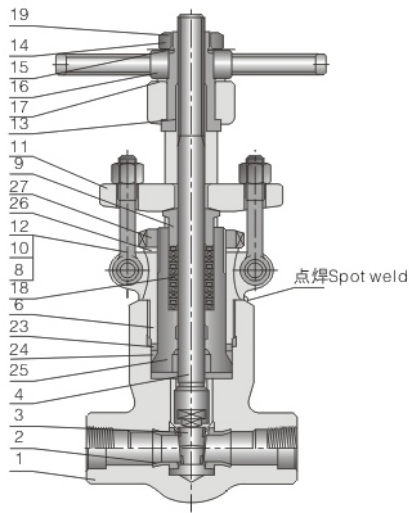
1. Design and manufacture conform to:
API 602, BS5352, ASME B16.34
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features:
ANSI B16.5; JB79
3. Test and inspection conform to:
API598; 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; 20Alloy.

Carbon steel temperature-pressure rate

CL-150-285P.S.I.@100°F CL-300-740P.S.I.@100°F CL600-1480P.S.I.@100°F CL800-1975P.S.I.@100°F CL1500-3705P.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
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	410	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
11	Gland flange	A105	A105	A105	A105	F304	F304	F304
12	Hex nut	2H	2H	4	7	8(M)	8(M)	8(M)
13	Stem nut	420	420	420	420	420	420	420
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
37	Screwed stud	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
39	Metal Ring	304	304	304	304	304(L)	316(L)	F51



Application Standards

1. Design and manufacture conform to:
API 602, BS5352, ASME B16.34
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features:
ANSI B16.5; JB79
3. Test and inspection conform to:
API598; GB/T13927; JB/T9092
4. Structure Features :
A threaded and pressure seal bonnet
5. Materials conform to ANSI/ASTM.
6. Main materials:
A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20Alloy.

Carbon steel temperature-pressure rate

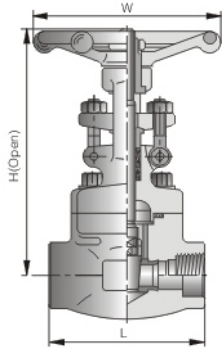
CL-1500-3705P.S.I.@100°F CL-2500-6170P.S.I.@100°F

Main part material 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	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
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	410	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
11	Gland flange	A105	A105	A105	A105	F304	F304	F304
12	Hex nut	2H	2H	4	7	8(M)	8(M)	8(M)
13	Stem nut	420	420	420	420	420	420	420
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
23	Seal Gasket	410	410	304	304	304(L)	316(L)	F51
24	P.S.ring	304	304	304	304	304(L)	316(L)	F51
25	P.S.seat	A105	A105	LF2	304	304(L)	316(L)	F51
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

Bolted bonnet, full port reducing port outside screw and yoke(OS & Y)

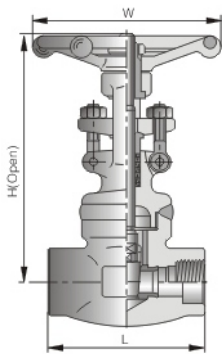
CL800 Threaded, butt-welded or socket welded ends; design to API 602



Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	--
Face to face (mm)	L	79	79	92	111	120	120	140	178	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	200	--
Center height (Open) (mm)	H	161	161	163	196	223	251	290	333	--
Flow port dimension (mm)	d	8	10.5	13.5	18	24	29	36.5	45	--
Weight(Kg)		2.3	2.22	2.39	4.24	5.7	7.05	10.9	16.8	--

Welded bonnet, full port reducing port outside screw and yoke(OS & Y)

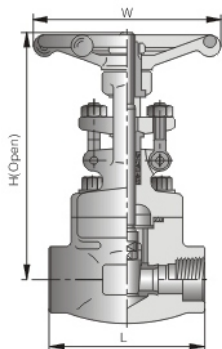
CL800 Threaded, butt-welded or socket welded ends; design to API 602



Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	--
Face to face (mm)	L	79	79	92	111	120	120	140	178	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	200	--
Center height (Open) (mm)	H	161	161	163	196	223	251	290	333	--
Flow port dimension (mm)	d	8	10.5	13.5	18	24	29	36.5	45	--
Weight(Kg)		1.9	1.9	2.1	3.2	5.2	6.9	10.4	15.8	--

Bolted bonnet, full port reducing port outside screw and yoke(OS & Y)

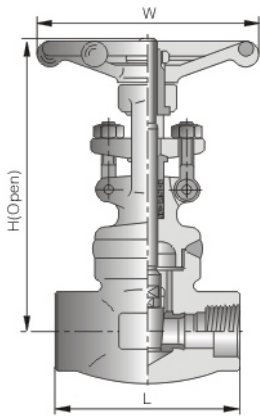
CL900-CL1500 Threaded, butt-welded or socket welded ends; design to API 602



Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	92	111	111	120	120	140	172	210	--
Handwheel diameter (mm)	W	100	125	125	160	160	180	200	220	--
Center height (Open) (mm)	H	191	191	192	219	243	296	316	370	--
Flow port dimension (mm)	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	--

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

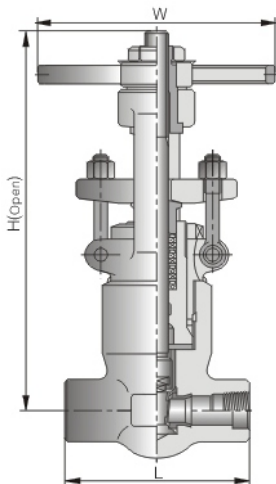
CL900-CL1500



Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	92	111	111	120	120	140	172	210	--
Handwheel diameter (mm)	W	100	125	125	160	160	160	200	220	--
Center height (Open) (mm)	H	171	207	207	240	258	330	355	370	--
Flow port dimension (mm)	d	8	10.5	13.5	13	24	29	36.5	45	--
Weight(Kg)		2.3	4	4	4.8	7.1	11	16	22.8	--

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

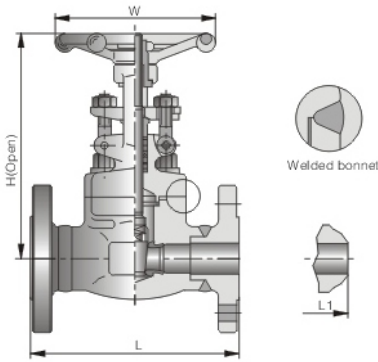
CL1500-CL2500



Specification (NPS)	###		3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L	CL900~1500	140	140	140	140	178	178	216
		CL2500	186	186	186	186	232	232	279
Handwheel diameter (mm)	W	CL900~1500	200	200	200	200	280	280	300
		CL2500	200	200	200	200	280	280	300
Center height (Open) (mm)	H	CL900~1500	318	318	318	322	467	468	540
		CL2500	325	325	325	327	467	468	540
Flow port dimension (mm)	d	CL900~1500	14	14	14	19	25	30	36.5
		CL2500	14	14	14	19	25	30	36.5
Weight(Kg)		CL900~1500	11.5	11.5	10.8	10.5	19.6	21.0	55.4
		CL2500	12.3	12.3	11.6	10.8	26.0	28.4	60.0

Bolted bonnet, reducing port reducing port outside screw and yoke(OS & Y)
Flang-welded or Butt-welded ends; design to API 602, BS5352

CL150-300-600



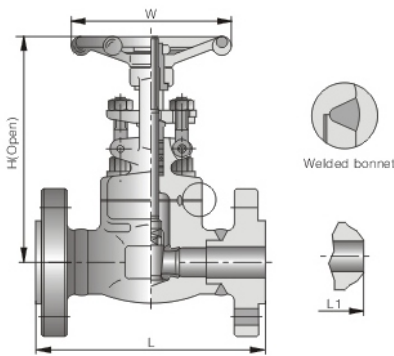
Specification (NPS)			1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to Face (mm)	CL150	L(RF) L1(BW)	--	--	108	117	127	140	165	178	190
	CL300		--	--	140	152	165	178	190	216	241
	CL600		--	--	165	190	216	229	241	292	330
Handwheel diameter (mm)	W	--	--	100	100	125	160	160	180	200	
Center height (OpenXmm)	CL150	H	--	--	176	184	217	226	250	290	357
	CL300,CL600		--	--	161	163	196	226	250	290	357
Flow port dimension (mm)	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	7.4	8.2	12.5	20
	CL300	RF	--	--	3.77	7.89	7.23	9.6	12.64	18	26.2
		BW	--	--	5.3	4.4	6.8	8.1	9.5	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	10.2	12.4	20.1	28

Flanged integrity forged steel valve enquiry please contact sales department.

Welded bonnet, full port outside screw and yoke(OS & Y)

Flang-welded or Butt-welded ends; design to API 602, BS5352

CL900-CL1500



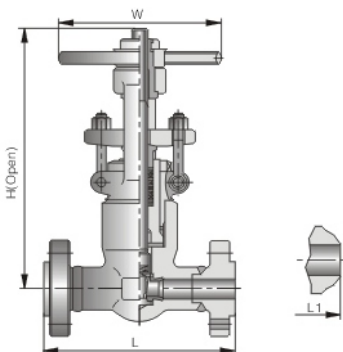
Specification (NPS)			1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to Face (mm)	L(RF) L1(BW)	--	--	216	229	254	279	305	368	
		L(RTJ)	--	--	216	229	254	279	305	371
Handwheel diameter (mm)	W	--	--	125	125	160	180	200	220	
Center height (OpenXmm)	H	--	--	191	192	219	257	296	316	
Flow port dimension (mm)	d			13.5	18	24	29	36.5	45	
Weight (Kg)				7.2	11.5	15.6	16.2	22.6	28.2	

Flanged integrity forged steel valve enquiry please contact sales department.

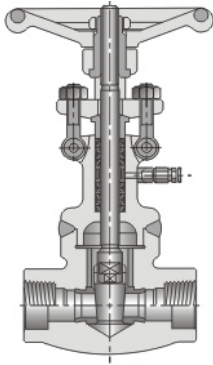
Pressure seal gate valves, full port outside screw and yoke (OS & Y)

Flange-welded or Butt-welded ends; design to ASME B16.34

CL2500



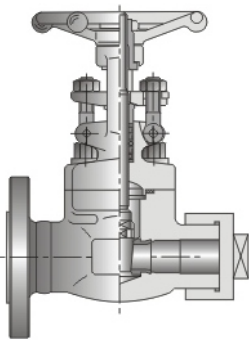
Specification (NPS)			1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to Face (mm)	L(RF) L1(BW)	--	--	264	273	308	--	384	451	
		L(RTJ)	--	--	264	273	308	--	387	454
Handwheel diameter (mm)	W	--	--	200	200	200	--	280	300	
Center height (OpenXmm)	H	--	--	325	325	327	--	478	540	
Flow port dimension (mm)	d			13.5	13.5	19	--	30	36.5	
Weight (Kg)				4.6	6.8	7.6	--	15	21.9	



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

Vaccum gate valves

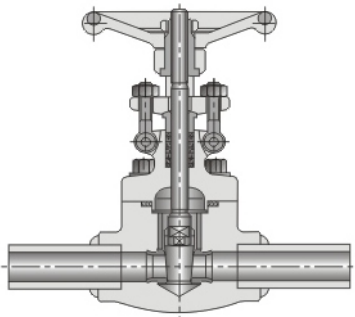
CLASS 800 API 602-BS 5352 Reduced port & Full port	Temperature pressure rate 1975 psi@100°F	Materials		
		Body/bonnet	Trim	Bolt
		Cast Steel	13Cr	B7



- ✘ Bolted
- ✘ OS & Y
- ✘ Cap fitting connection
- ✘ Solid wedge

For venting and/or media

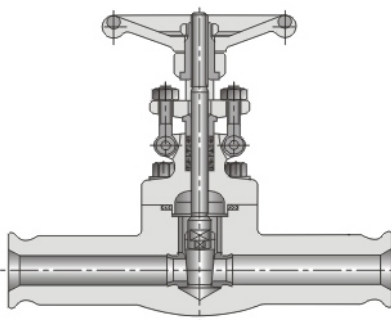
CLASS 800 API 602-BS 5352 Reduced port & Full port	Temperature pressure rate 1975 psi@100°F	Materials		
		Body/bonnet	Trim	Bolt
		Cast Steel	13Cr	B7



- ✘ Bolted bonnet
- ✘ OS & Y
- ✘ Double end pipe connection
- ✘ Solid wedge

Coupling pipe valves

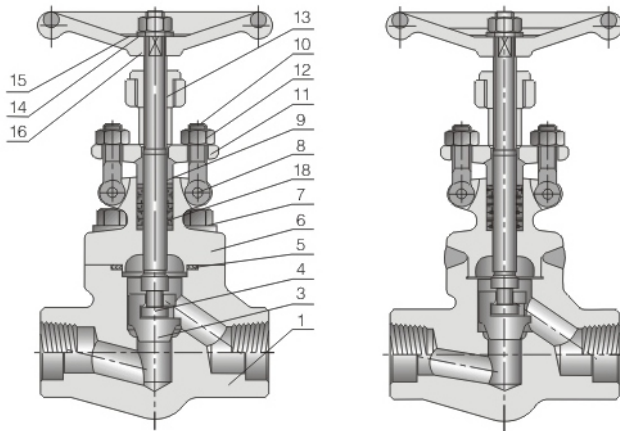
CLASS 800 API 602-BS 5352	Temperature pressure rate 1975 psi@100°F	Materials		
		Body/bonnet	Trim	Bolt
		Cast Steel	13Cr	B7



- ✘ Bolted bonnet
- ✘ OS & Y
- ✘ Hoop connection
- ✘ Solid wedge

Hoop gate valves

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



Application Standards

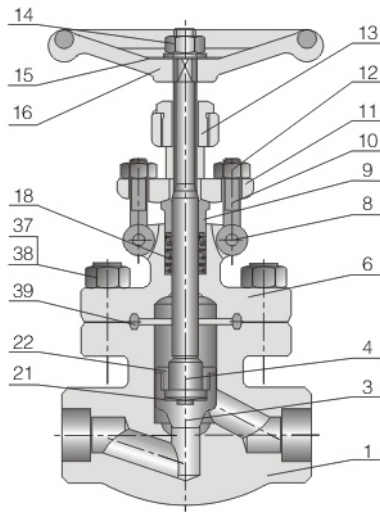
1. Design and manufacture conform to: BS5352, MSS SP-118
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; 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; 20Alloy.

Carbon steel temperature-pressure rate

CL-150-285P.S.I.@100°F CL-300-740P.S.I.@100°F CL600-1480P.S.I.@100°F CL800-1975P.S.I.@100°F CL1500-3705P.S.I.@100°F

Main part material 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)	B8(M)
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	410	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
11	Gland flange	A105	A105	A105	A105	F304	F304	F304
12	Hex nut	2H	2H	4	7	8(M)	8(M)	8(M)
13	Stem nut	420	420	420	420	420	420	420
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



Application Standards

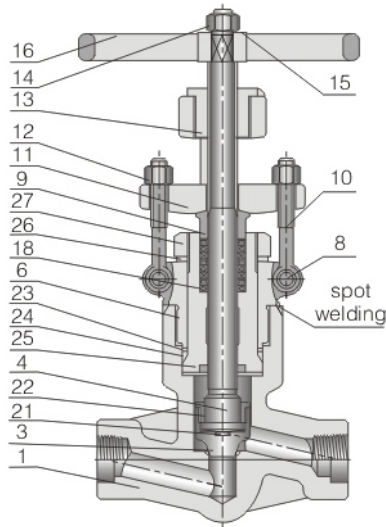
1. Design and manufacture conform to: BS5352, MSS SP-118
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; 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; 20Alloy.

Carbon steel temperature-pressure rate

CL-150-285P.S.I.@100°F CL-300-740P.S.I.@100°F CL600-1480P.S.I.@100°F CL800-1975P.S.I.@100°F CL1500-3705P.S.I.@100°F

Main part material 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
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	410	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
11	Gland flange	A105	A105	A105	A105	F304	F304	F304
12	Hex nut	2H	2H	4	7	8(M)	8(M)	8(M)
13	Stem nut	420	420	420	420	420	420	420
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
37	Screwed stud	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
39	Metal ring	10	10	304	304	304(L)	316(L)	F51



Application Standards

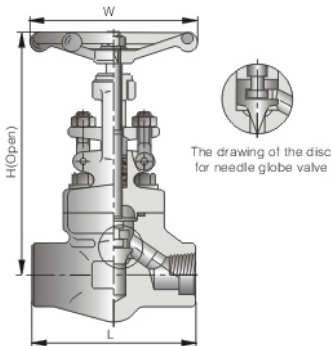
1. Design and manufacture conform to: ASME B16.34
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; 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; 20Alloy.

Carbon steel temperature-pressure rate

CL-1500-3705P.S.I.@100°F CL-2500-6170P.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+HF
3	Disc	410	410	304	410	304(L)	316(L)	F51+HF
4	Stem	410	410	304	410	304(L)	316(L)	F51
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	410	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8
11	Gland flange	A105	A105	A105	A105	F304	F304	F304
12	Hex nut	2H	2H	4	7	8(M)	8(M)	8
13	Stem nut	420	420	420	420	420	420	420
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
23	Seal ring gasket	420	420	304	304	304(L)	316(L)	F51
24	P.S.ring	304	304	304	304	304(L)	316(L)	F51
25	P.S.seat	A105	A105	LF2	F11	304(L)	316(L)	F51
26	P.S.seat	410	410	410	410	304	304	304
27	Draw-in stud	Cart Steel	Cart Steel	Cart Steel	Cart Steel	Stainless steel	Stainless steel	SS



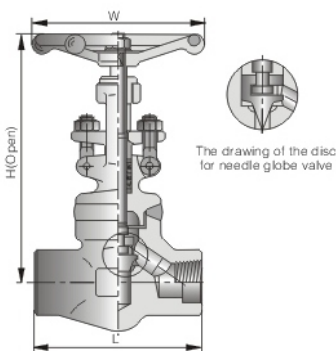
Bolted bonnet, full port reducing port outside screw and yoke(OS & Y)
Threaded, butt-welded or socket welded ends; design to BS5352

CL800

Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	79	79	92	111	120	152	172	200	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	200	--
Center height (Open) (mm)	H	164	164	164	203	224	260	300	355	--
Flow port dimension (mm)	d	7	9	13	17.5	23	30	35	46	--
Weight(Kg)		1.9	2.28	2.37	4.3	5.75	7.8	12.5	17.5	--

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

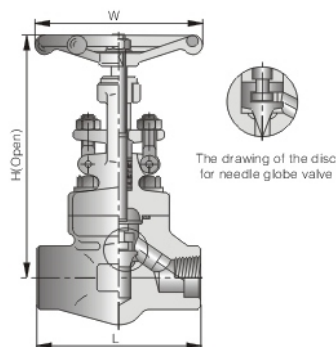
CL800



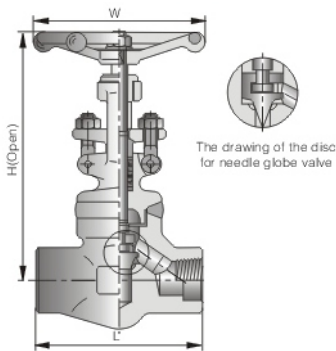
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	79	79	92	111	120	152	172	200	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	200	--
Center height (Open) (mm)	H	164	164	164	203	224	260	300	355	--
Flow port dimension (mm)	d	7	9	13	17.5	23	30	35	46	--
Weight(Kg)		1.7	1.7	1.9	3.3	5.2	6.8	10.6	13.8	--

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

CL900-CL1500



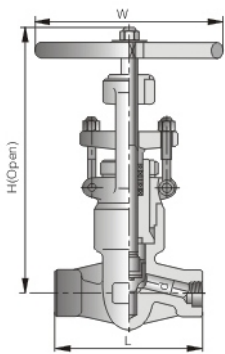
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	--	--
Face to face (mm)	L	92	111	111	120	152	172	220	--	--
Handwheel diameter (mm)	W	100	125	125	160	160	180	200	--	--
Center height (Open) (mm)	H	171	207	207	240	258	330	355	--	--
Flow port dimension (mm)	d	7	12	15	20	28	32	40	--	--
Weight(Kg)		2.3	3.7	3.6	3.6	7.6	11.6	15	--	--



Welded bonnet, full port reducing port outside screw and yoke(OS & Y)

CL900-CL1500 Threaded, butt-welded or socket welded ends; design to BS5352

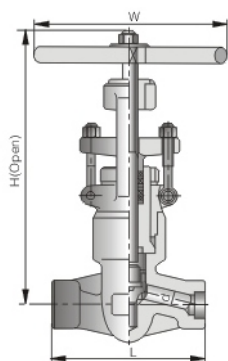
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	--	--
Face to face (mm)	L	92	111	111	120	152	172	220	--	--
Handwheel diameter (mm)	W	100	125	125	160	160	180	200	--	--
Center height (Open) (mm)	H	171	207	207	240	258	330	355	--	--
Flow port dimension (mm)	d	7	12	15	20	28	32	40	--	--
Weight(Kg)		2.0	3.4	3.3	6.0	5.6	10.3	14.2	--	--



Pressure seal onnet full port reducing port outside screw and yoke(OS & Y)

CL900-CL1500 Threaded, butt-welded or socket welded ends; design conform to BS5352

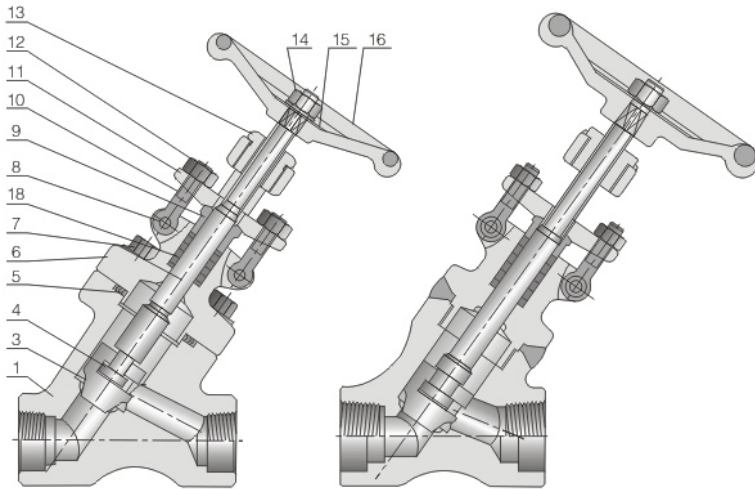
Specification (NPS)	F.P	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	140	140	140	178	178	216	--
Handwheel diameter (mm)	W	220	200	200	280	280	300	--
Center height (Open) (mm)	H	320	320	320	440	440	490	--
Flow port dimension (mm)	d	12	15	20	28	32	40	--
Weight(Kg)		11.5	10.8	10.5	19.6	21.1	55.4	--



Pressure seal onnet full port reducing port outside screw and yoke(OS & Y)

CL2500 Socket welded ends, design conform to ASME B16.34

Specification (NPS)	F.P	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	186	186	186	232	232	279	--
Handwheel diameter (mm)	W	200	200	200	280	280	300	--
Center height (Open) (mm)	H	375	378	380	490	490	540	--
Flow port dimension (mm)	d	11	14	19	25	28	35	--
Weight(Kg)		12.3	11.6	10.8	26.0	28.4	60	--



Application Standards

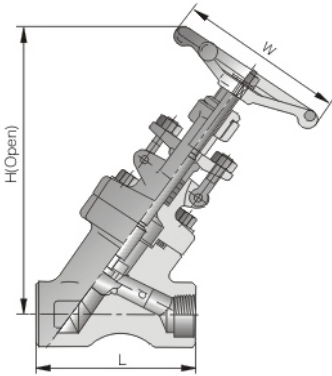
1. Design and manufacture conform to:
API 602, BS5352, ASME B16.34
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features:
ANSI B16.5; JB79
3. Test and inspection conform to:
API598; 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; 20Alloy.

Carbon steel temperature-pressure rate

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

Main part materials list

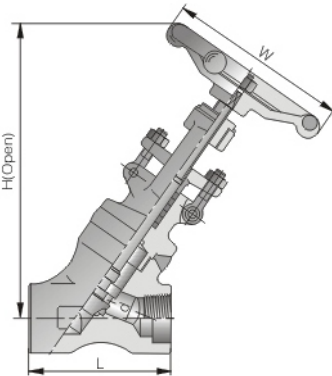
No.	Part Name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	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)	B8(M)
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	410	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
11	Gland flange	A105	A105	A105	A105	F304	F304	F304
12	Hex nut	2H	2H	4	7	8(M)	8(M)	8(M)
13	Stem nut	420	420	420	420	420	420	420
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



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

CL800

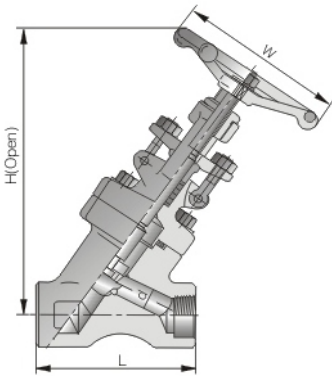
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	--	--
Face to face (mm)	L	98	98	98	120	140	140	170	--	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	--	--
Center height (Open) (mm)	H	180	180	180	188	280	280	295	--	--
Flow port dimension (mm)	d	7	9	13	17.5	23	30	35	--	--
Weight(Kg)		2.6	2.6	3.8	4.6	9.3	9.3	14	--	--



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

CL800

Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	--	--
Face to face (mm)	L	98	98	98	120	140	140	170	--	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	--	--
Center height (Open) (mm)	H	198	198	198	207	280	280	295	--	--
Flow port dimension (mm)	d	7	9	13	17.5	23	30	35	--	--
Weight(Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	--	--



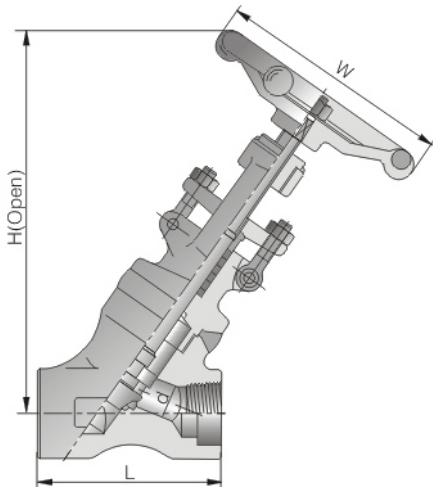
Bolted bonnet, full port & outside screw and yoke(OS & Y)

CL900-CL1500 Threaded, butt-welded or socket welded ends design to BS5352

Specification (NPS)	F.P	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	120	120	120	140	170	170	220	--
Handwheel diameter (mm)	W	100	125	125	160	160	180	200	--
Center height (Open) (mm)	H	175	175	215	215	254	305	305	--
Flow port dimension (mm)	d	9	12	15	20	28	32	40	--
Weight(Kg)		2.6	4.6	4.6	9.3	9.3	14	19.6	--

Welded bonnet, full port & outside screw and yoke(OS & Y)

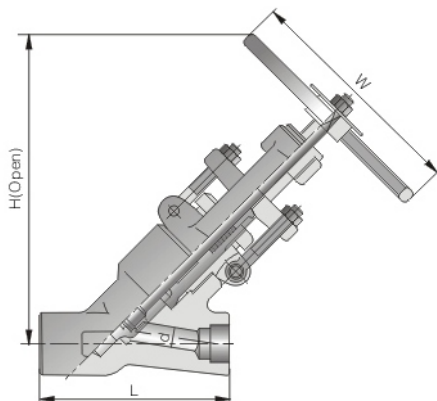
CL900-CL1500 Threaded, butt-welded or socket welded ends design to BS5352



Specification (NPS)	F.P	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	120	120	120	140	170	170	220	--
Handwheel diameter (mm)	W	100	125	125	160	160	180	200	--
Center height (Open) (mm)	H	175	207	207	180	280	295	350	--
Flow port dimension (mm)	d	9	12	15	20	28	32	40	--
Weight(Kg)		1.8	3.5	3.5	8.0	8.0	12	16	--

Pressure seal bonnet, full port & outside screw and yoke(OS & Y)

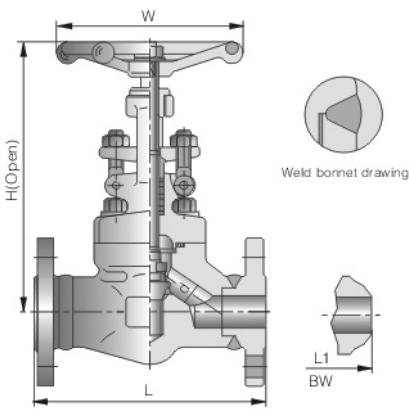
CL2500 Socket welded, design conform to ASME 16.34



Specification (NPS)	F.P	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L	186	186	186	186	232	232	310
Handwheel diameter (mm)	W	200	200	200	200	280	280	300
Center height (Open) (mm)	H	333	333	333	333	406	406	524
Flow port dimension (mm)	d	9	11	14	19	25	28	35
Weight(Kg)		12.3	12.3	11.6	10.8	28.0	26.4	43.8

Bolted bonnet, reducing port outside screw and yoke(OS & Y)
Flange or Butt-welding design to BS5352

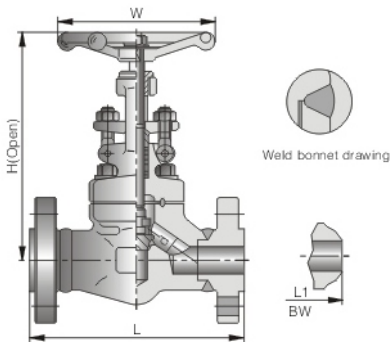
CL150-300-600



Specification (NPS)		W	1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to Face (mm)	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 (mm)		W	--	--	100	100	125	160	160	180
Center height (OpenXmm)	CL150,CL300	H	--	--	180	184	217	224	260	300
	CL600		--	--	164	164	203	224	260	300
Flow port dimension (mm)		d	--	--	9	13	17.5	23	30	35
Weight (Kg)	CL150	RF	--	--	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	RF	--	--	3.8	5.1	7.2	12	13.5	19.7
		BW	--	--	2.8	4.0	8.5	9.2	12.6	16.8
	CL600	RF	--	--	5.6	7.8	12.5	17	23.5	38.8
		BW	--	--	3.4	4.7	9.2	10.5	13.3	18.9

Bolted bonnet, full port outside screw and yoke(OS & Y)
Flange or Butt-welding design to BS5352

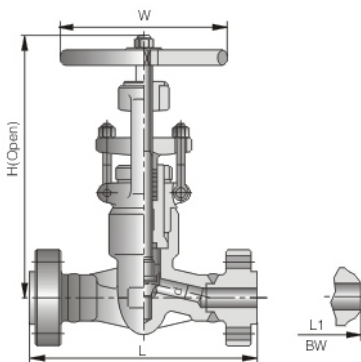
CL900-CL1500



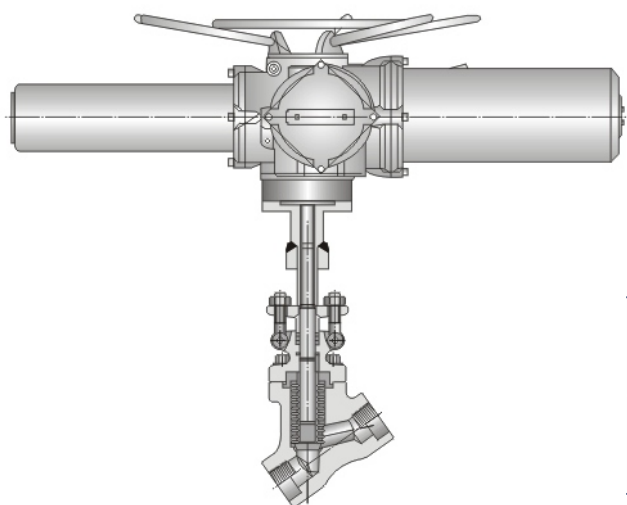
Specification (NPS)		1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to Face (mm)	L(RF) L1(BW)	--	--	216	229	254	279	305	368
	L(RTJ)	--	--	216	229	254	279	305	371
Handwheel diameter (mm)	W	--	--	125	125	160	160	180	200
Center height (OpenXmm)	H	--	--	207	207	230	160	300	355
Flow port dimension (mm)	d	--	--	12	15	20	28	32	40
Weight (Kg)		--	--	11	13.2	17.4	19	24.5	31

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

CL2500

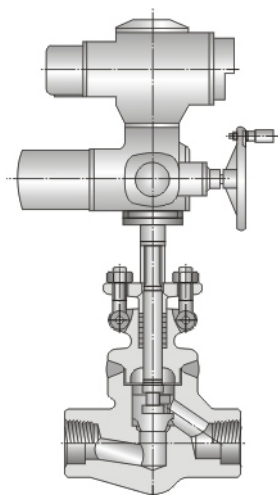


Specification (NPS)		1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to Face (mm)	L(RF) L1(BW)	--	--	264	273	308	349	384	451
	L(RTJ)	--	--	264	273	308	349	387	454
Handwheel diameter (mm)	W	--	--	200	200	280	280	280	300
Center height (OpenXmm)	H	--	--	320	320	320	440	440	490
Flow port dimension (mm)	d	--	--	11	14	19	25	28	35
Weight (Kg)		--	--	21.5	24.7	30.4	48.1	58.1	130



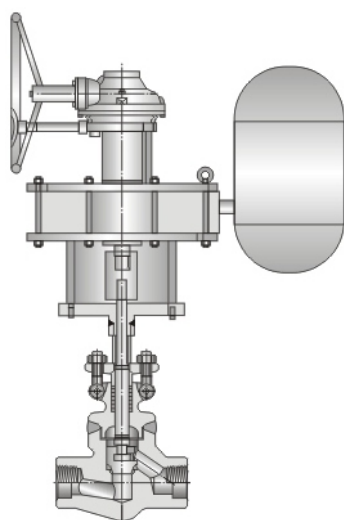
Electric actuator

CLASS	Materials
150~2500	Carbon steel Stainless steel



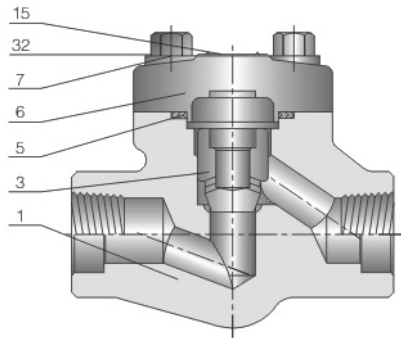
Electric actuator

CLASS	Materials
150~2500	Carbon steel Stainless steel

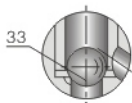


Pneumatic actuator

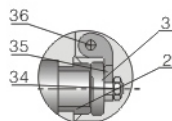
CLASS	Materials
150~2500	Carbon steel Stainless steel



Please mark in you need load spring



Ball type



Swing type

Application Standards

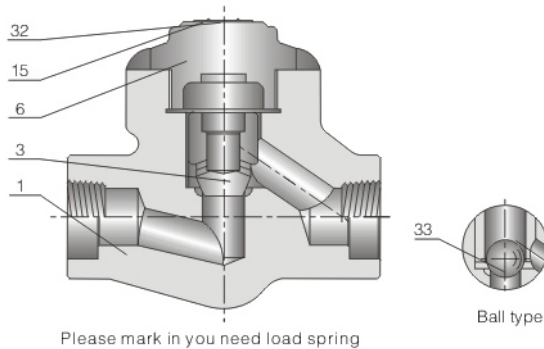
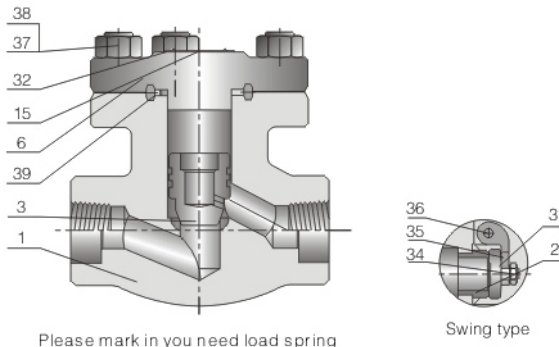
1. Design and manufacture conform to: BS5352
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; GB/T13927; JB/T9092
4. Structure Features : Bolted bonnet(B.B.)
5. Materials conform to ANSI/ASTM.
6. Main materials: A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20Alloy.

Carbon steel temperature-pressure rate

- CL150-285P.S.I @ 100°F
- CL300-740P.S.I @ 100°F
- CL600-1480P.S.I @ 100°F
- CL800-1975P.S.I @ 100°F
- CL1500-3705P.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 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	410	410	304	304	304(L)	316(L)	F51
34	Disc nut	2H	2H	8	8	8(M)	8(M)	8(M)
35	Hinge	410	410	304	410	316(L)	316(L)	F51
36	Pin	410	410	304	410	304(L)	316(L)	F51



Application Standards

1. Design and manufacture conform to: BS5352 MSS SP-118
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; GB/T13927; JB/T9092
4. Structure Features : Gasket for bonnet connect adopt metal ring. Bolted bonnet, welded bonnet
5. Materials conform to ANSI/ASTM.
6. Main materials: A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20Alloy.

Carbon steel temperature-pressure rate

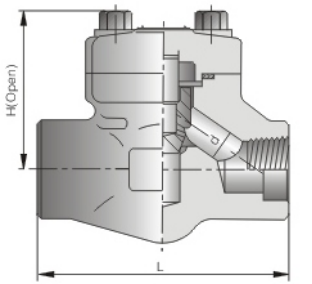
- CL150-285P.S.I @ 100°F
- CL300-740P.S.I @ 100°F
- CL600-1480P.S.I @ 100°F
- CL800-1975P.S.I @ 100°F
- CL1500-3705P.S.I @ 100°F
- CL2500-61705P.S.I @ 100°F

Main part material 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 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	410	410	304	304	304(L)	316(L)	F51
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	10	10	304	304	304(L)	316(L)	F51

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

CL800



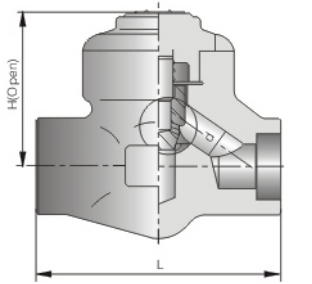
Please mark in you need load spring



Specification (NPS)	R.P			1/2	3/4	1	1¼	1½	2	2½
	F.P		1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L	Lift	79	79	92	111	120	152	172	220
		Swing	79	79	92	111	120	120	140	178
Center height (Open) (mm)	W	Lift	61	61	61	78	84	84	118	132
		Swing	61	61	61	78	84	84	120	133
Flow port dimension (mm)	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	15	1.7	3.3	4.2	4.2	8.5	10.9

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

CL800



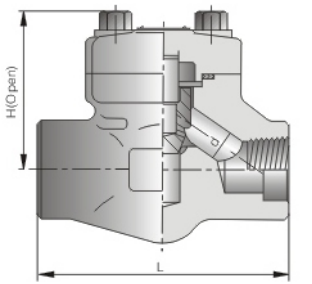
Please mark in you need load spring



Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L	79	79	92	111	120	152	172	220
Center height (Open) (mm)	H	61	61	61	78	84	103	118	132
Flow port dimension (mm)	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

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

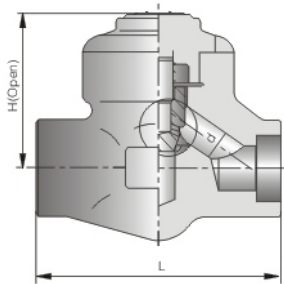
CL900-CL1500



Please mark in you need load spring



Specification (NPS)	R.P			1/2	3/4	1	1¼	1½	2	
	F.P		1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L	Lift	92	111	111	120	152	172	220	
		Swing	92	111	111	120	120	140	178	
Center height (Open) (mm)	W	Lift	61	78	78	84	103	118	132	
		Swing	61	78	78	84	101	120	133	
Flow port dimension (mm)	d	Lift	7	12	15	20	28	32	40	
		Swing	8	10.5	13.5	18.7	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	



Please mark in you need load spring

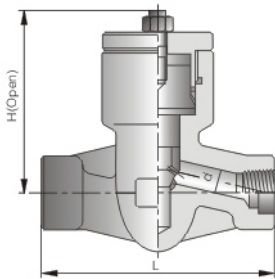
Welded bonnet, full port & reducing port

CL900-CL1500 Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	R.P.		1/2	3/4	1	1¼	1½	2	
	F.P.	1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L	92	111	111	120	152	172	220	
Center height (Open) (mm)	H	61	78	78	84	103	118	132	
Flow port dimension (mm)	d	7	12	15	20	28	32	40	
Weight(Kg)		1.3	3.1	3.1	3.9	5.8	10.0	11.5	

Pressure seal bonnet, full port & reducing port

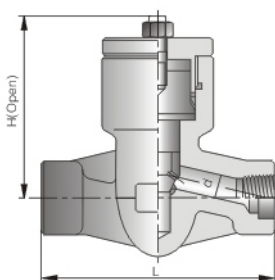
CL900-CL1500 Threaded, butt-welded or socket welded ends; design to BS5352



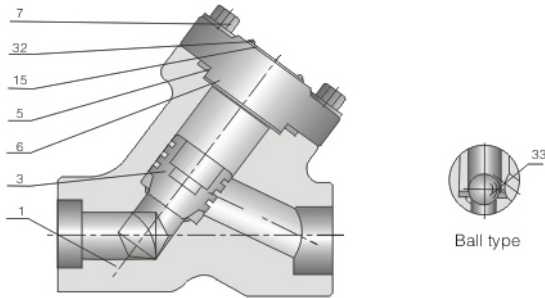
Specification (NPS)	R.P.	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P.	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L		140	140	140	178	216	216		
Center height (Open) (mm)	H		117	117	117	152	195	195		
Flow port dimension (mm)	d		12	15	20	28	28	40		
Weight(Kg)			7.5	7.0	6.8	18.5	18.5	22		

Pressure seal bonnet, full port

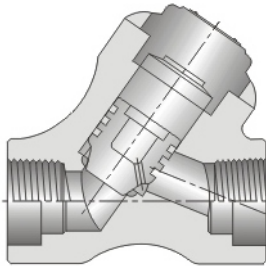
CL2500 Threaded, butt-welded or socket welded ends; design to ASME B16.34



Specification (NPS)	F.P.	1/4	3/8	1/2	3/4	1	1¼	1½	2
	Face to face (mm)	L			186	186	186	232	232
Center height (Open) (mm)	H			117	117	117	152	150	195
Flow port dimension (mm)	d			11	14	14	25	28	35
Weight(Kg)				11.8	11	11	23	26.4	39



Please mark in you need load spring



Application Standards

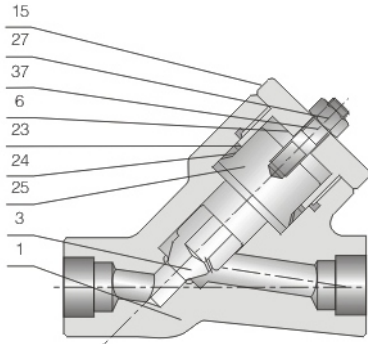
1. Design and manufacture conform to: BS5352 MSS SP-118
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; GB/T13927; JB/T9092
4. Structure Features : Bolted bonnet, welded bonnet
5. Materials conform to ANSI/ASTM.
6. Main materials: A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20Alloy.

Carbon steel temperature-pressure rate

CL1500-3705P.S.I @ 100°F
 CL2500-6170P.S.I @ 100°F
 CL4500-1111P.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+HF	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)	B8(M)
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
32	Revit	AL	AL	AL	AL	AL	AL	AL
33	Steel ball	410	410	304	304	316(L)	316(L)	F51



Application Standards

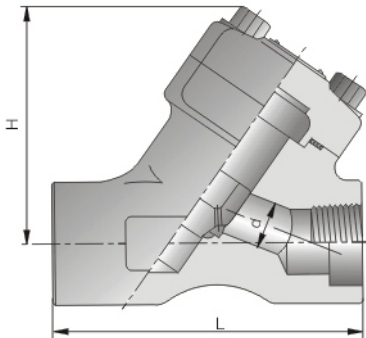
1. Design and manufacture conform to: BS5352 MSS SP-118
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; 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; 20Alloy.

Carbon steel temperature-pressure rate

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

Main part material 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	304	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	Sealing gasket	420	420	304	304	304(L)	316(L)	F51
24	P.S.ring	304	304	304	304	304(L)	316(L)	F51
25	P.S.seat	A105	A105	LF2	F11	F304(L)	F316(L)	F51
27	Lift nut	2H	2H	4	7	8(M)	8(M)	8(M)
37	Lift stud	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)

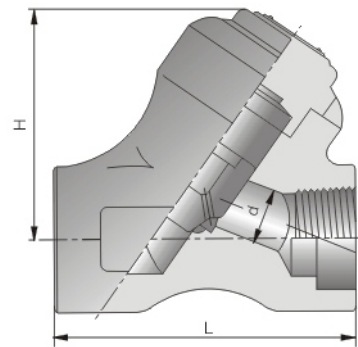


Bolted bonnet, full port reducing port

CL800

Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	--	--
Face to face (mm)	L	98	98	98	120	140	140	170	--	--
Center height (Open) (mm)	H	70	100	70	100	110	120	120	--	--
Flow port dimension (mm)	d	7	180	13	17.5	23	30	35	--	--
Weight(Kg)		2.2	9	2.1	4.2	9	8.9	10	--	--

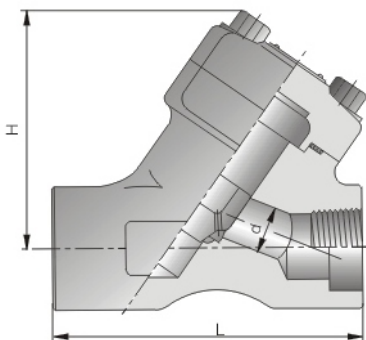


Welded bonnet, full port and reducing port

CL800

Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	--	--
Face to face (mm)	L	98	98	98	120	140	140	170	--	--
Center height (Open) (mm)	H	65	65	65	95	105	110	110	--	--
Flow port dimension (mm)	d	7	10	13	17.5	23	30	35	--	--
Weight(Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	--	--

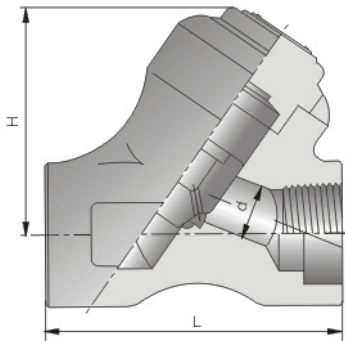


Bolted bonnet, full port

CL900-CL1500

Threaded, butt-welded or socket welded ends; design to BS5352

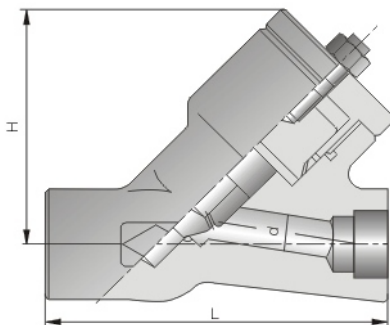
Specification (NPS)	R.P	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	120	120	120	140	170	170	220	--
Center height (Open) (mm)	H	70	70	100	110	110	120	150	--
Flow port dimension (mm)	d	9	12	15	20	28	32	40	--
Weight(Kg)		2.1	4.2	9	8.9	10	18.6	20	--



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

CL900-CL1500

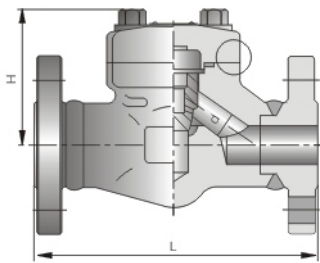
Specification (NPS)	R.P	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	120	120	120	140	170	170	220	--
Center height (Open) (mm)	H	65	65	65	105	110	110	140	--
Flow port dimension (mm)	d	9	12	15	20	32	28	40	--
Weight(Kg)		2.0	3.5	3.5	8.0	12	12	18	--



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

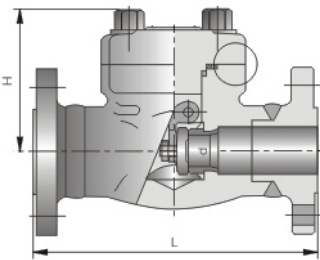
CL2500

Specification (NPS)	R.P	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L	186	186	186	186	232	232	310
Center height (Open) (mm)	H	233	233	233	233	256	256	330
Flow port dimension (mm)	d	9	11	14	19	25	28	35
Weight(Kg)		11.2	11.5	10.6	10.8	25	22	39



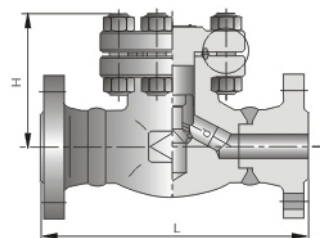
Bolted bonnet, full port
CL150-300-600 Flange-welded or butt-welded ends; design to BS5352

Specification (NPS)		F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	CL150	L(RF)	--	--	108	118	127	140	165	203
	CL300		--	--	153	178	203	216	229	267
	CL600	L1(BW)	--	--	165	191	216	229	241	292
Center height (Open) (mm)	CL150	H	--	--	77	81	93	95	103	118
	CL300/600		--	--	61	78	84	101	120	133
Flow port dimension (mm)		d	--	--	10	13	17.5	23	30	35
Weight (Kg)	CL150		--	--	3.6	4.6	8.5	9.25	12.5	14.8
			--	--	3.0	3.6	7.6	8.5	11.3	13.6
	CL300		--	--	3.7	4.8	8.8	9.6	13.7	17.8
			--	--	3.2	4.3	8.0	8.6	12.7	16.2
	CL600		--	--	4.0	5.8	9.5	10.4	15.6	24.5
			--	--	3.4	5.1	8.8	9.2	14.8	22.5



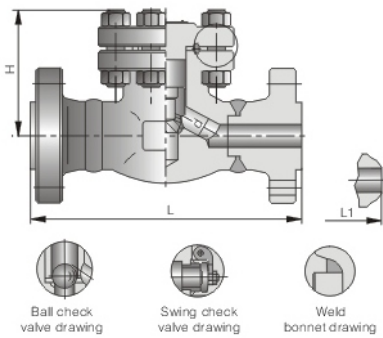
Bolted bonnet, full port
CL150-300-600 Flange-welded or butt-welded ends; design to BS5352

Specification (NPS)		F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	CL150	L(RF)	--	--	108	118	127	140	165	203
	CL300		--	--	153	178	203	216	229	267
	CL600	L1(BW)	--	--	165	191	216	229	241	292
Center height (Open) (mm)	CL150	H	--	--	77	81	93	95	103	118
	CL300/600		--	--	61	78	84	101	120	133
Flow port dimension (mm)		d	--	--	10	13.5	18	24	29	36.5
Weight (Kg)	CL150		--	--	3.6	4.6	8.5	9.2	12.5	14.8
			--	--	3.0	3.6	7.6	8.5	11.3	13.6
	CL300		--	--	3.7	4.8	8.8	9.6	13.7	17.8
			--	--	3.2	4.3	8.0	8.6	12.7	16.2
	CL600		--	--	4.0	5.8	9.5	10.4	15.6	24.5
			--	--	3.4	5.1	8.8	9.2	14.8	22.5



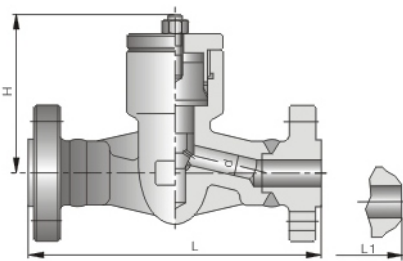
Bolted bonnet, full port
CL150-300-600 Flange-welded or butt-welded ends; design to BS5352

Specification (NPS)		F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	CL150	L(RF)	--	--	108	118	127	140	165	203
	CL300		--	--	153	178	203	216	229	267
	CL600	L1(BW)	--	--	165	191	216	229	241	292
Center height (Open) (mm)	CL150	H	--	--	77	81	93	95	103	118
	CL300/600		--	--	61	78	84	101	120	133
Flow port dimension (mm)		d	--	--	10	13	17.5	23	30	35
Weight (Kg)	CL150		--	--	3.2	3.5	4.6	5.2	7.0	16
			--	--	2.8	3.0	4.0	4.6	6.3	15
	CL300		--	--	4.6	6.1	9.1	12	16	21
			--	--	4.1	5.7	8.4	11.2	14.5	19.5
	CL600		--	--	4.8	6.3	9.3	13	16.5	22
			--	--	4.4	5.9	8.7	12.1	15.8	20.8



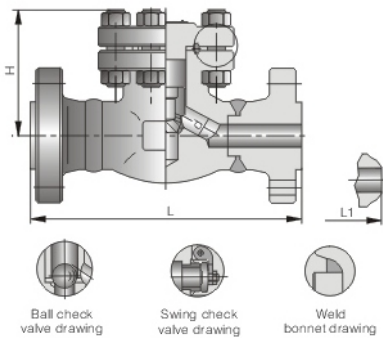
CL900-CL1500 Bolted bonnet, full port
Flange-welded or butt-welded ends; design to BS5352

Specification (NPS)		1/2	3/4	1	1¼	1½	2	
Face to face (mm)	L(RJ)L1(BW)	216	229	254	280	305	371	
Center height (open) (mm)	H	81	93	95	101	118	130	
Flow port dimension (mm)	d	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



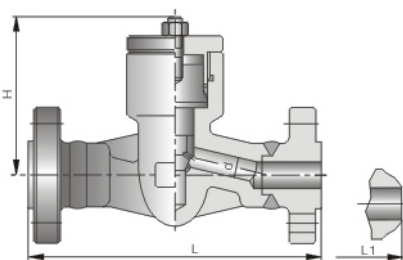
CL900-CL1500 Pressure seal, Bolted full port and reducing port
Flange-welded or butt-welded ends; design to BS5352

Specification (NPS)		3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L(RJ)L1(BW)	--	216	229	254	280	305	268
	L(RTJ)	--	216	229	254	280	305	371
Center height (open) (mm)	H	--	117	117	117	152	152	195
Flow port dimension (mm)	d	--	12	15	20	28	32	40
Weight(Kg)		--	10.5	11.9	13.9	19.9	26.9	32.5



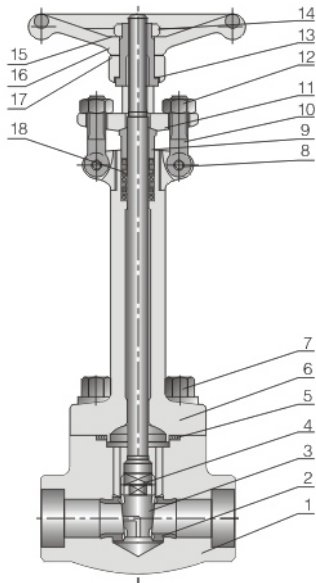
CL2500 Bolted bonnet, full port
Flange-welded or butt-welded ends; design to BS5352

Specification (NPS)		1/2	3/4	1	1¼	1½	2	
Face to face (mm)	L(RJ)L1(BW)	264	273	308	349	384	450	
	L(RTJ)	264	273	308	352	387	454	
Center height (open) (mm)	H	81	93	95	101	118	130	
Flow port dimension (mm)	d	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 full port and reducing port
Flange-welded or butt-welded ends; design to BS5352

Specification (NPS)		3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L(RJ)L1(BW)	--	264	273	308	349	384	450
	L(RTJ)	--	264	273	308	352	387	454
Center height (open) (mm)	H	--	117	117	117	152	152	195
Flow port dimension (mm)	d	--	12	15	20	32	28	40
Weight(Kg)		--	12.6	14.9	16.5	24.8	30	35



Application Standards

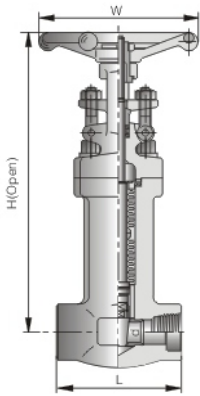
1. Design and manufacture conform to: ASME 602
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; GB/T13927; JB/T9092
4. Structure Features : Bolted bonnet, outside screw and yoke
Welded bonnet, outside screw and yoke
5. Materials conform to ANSI/ASTM.
6. Main materials: LF2; LF3; 304(L); 316(L); F347; F321; F51.

Carbon steel temperature-pressure rate

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

Main part materials list

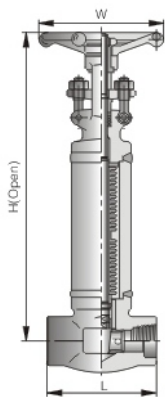
No.	Part Name	A105/F6a	A105/F6aHFS	LF2/304	LF3/304	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	--	--	LF2	LF3	F304(L)	F316(L)	F51
2	Seat ring	--	--	304	304	304(L)	316(L)	F51
3	Wedge disc	--	--	F304	F304	F304(L)	F316(L)	F51
4	Stem	--	--	304	304	304(L)	316(L)	F51
5	Gasket	--	--	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
6	Bonnet	--	--	LF2	LF3	F304(L)	F316(L)	F51
7	Bolt	--	--	L7	L7	B8	B8	B8
8	Pin	--	--	410	410	304	304	304
9	Gland	--	--	304	304	304(L)	316(L)	F51
10	Gland eyebolt	--	--	L7	L7	B8(M)	B8(M)	B8(M)
11	Gland flange	--	--	LF2	LF3	F304	F304	F304
12	Hex nut	--	--	4	4	8(M)	8(M)	8(M)
13	Stem nut	--	--	420	420	420	420	420
14	Locking Nut	--	--	35	35	35	35	35
15	Nameplate	--	--	AL	AL	AL	AL	AL
16	Handwheel	--	--	A197	A197	A197	A197	A197
17	Lubricating Gasket	--	--	410	410	410	410	410
18	Packing	--	--	Graphite	Graphite	Graphite	Graphite	Graphite



Bolted bonnet, full port & reducing port outside screw and yoke (OS & Y)
 Threaded, butt-welded or socket welded ends; design to API 602, MSS-SP-117

CL800

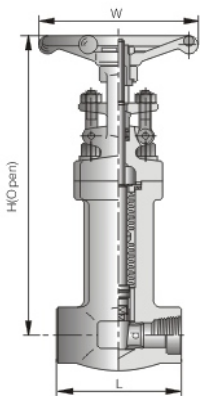
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½
Face to face (mm)	L	79	79	92	111	120	120	140
Handwheel diameter (mm)	W	100	100	100	125	160	160	180
Center height (Open) (mm)	H	255	255	285	345	445	545	594
Flow port dimension (mm)	d	7.5	10.5	13.5	18	24	29	36.5
Weight(Kg)		3.0	3.0	3.3	5.9	8.7	10.2	16.2



Welded bonnet, full port & reducing port outside screw and yoke (OS & Y)
 Threaded, butt-welded or socket welded ends; design to API 602, MSS-SP-117

CL800

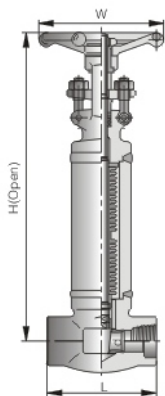
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½
Face to face (mm)	L	79	79	92	111	120	120	140
Handwheel diameter (mm)	W	100	100	100	125	160	160	180
Center height (Open) (mm)	H	248	548	777	335	437	537	585
Flow port dimension (mm)	d	7.5	10.5	13.5	18	24	29	36.5
Weight(Kg)		2.9	2.9	3.2	4.6	7.2	8.9	15.5



Bolted bonnet, full port & reducing port outside screw and yoke (OS & Y)
 Threaded, butt-welded or socket welded ends; design to API 602, MSS-SP-117

CL1500

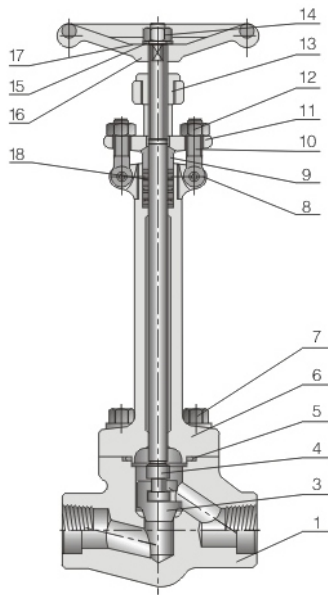
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½
Face to face (mm)	L	92	111	111	120	120	140	172
Handwheel diameter (mm)	W	100	125	125	160	160	480	180
Center height (Open) (mm)	H	255	264	320	379	478	607	636
Flow port dimension (mm)	d	7.5	10.5	13.5	18	24	29	36.5
Weight(Kg)		3.1	5.1	5.1	9.0	10.5	16.7	21



Welded bonnet, full port & reducing port outside screw and yoke (OS & Y)
 Threaded, butt-welded or socket welded ends; design to API 602, MSS-SP-117

CL1500

Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½
Face to face (mm)	L	92	111	111	120	120	140	172
Handwheel diameter (mm)	W	100	125	125	160	160	180	180
Center height (Open) (mm)	H	287	287	312	368	465	595	627
Flow port dimension (mm)	d	7.5	10.5	13.5	18	24	29	36.5
Weight(Kg)		2.9	4.7	4.7	7.4	5.7	16	19



Application Standards

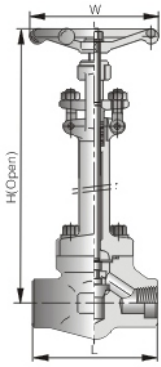
1. Design and manufacture conform to: API 602
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; GB/T13927; JB/T9092
4. Structure Features : Bolted bonnet, outside screw and yoke
Welded bonnet, outside screw and yoke
5. Materials conform to ANSI/ASTM.
6. Main materials: LF2; LF3; 304(L); 316(L); F347; F321; F51.

Carbon steel temperature-pressure rate

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

Main part material list

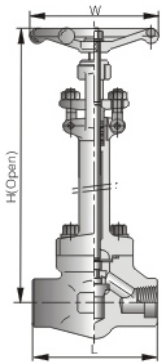
No.	Part Name	A105/F6a	A105/F6aHFS	LF2/304	LF3/304	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	--	--	LF2	LF3	F304(L)	F316(L)	F51
2	Seat ring	--	--	304	304	304(L)	316(L)	F51
3	Wedge disc	--	--	F304	F304	F304(L)	F316(L)	F51
4	Stem	--	--	304	304	304(L)	316(L)	F51
5	Gasket	--	--	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	--	--	LF2	LF3	F304(L)	F316(L)	F51
7	Bolt	--	--	L7	L7	B8	B8	B8
8	Pin	--	--	410	410	304	304	304
9	Gland	--	--	304	304	304(L)	316(L)	F51
10	Gland eyebolt	--	--	L7	L7	B8(M)	B8(M)	B8(M)
11	Gland flange	--	--	LF2	LF3	F304	F304	F304
12	Hex nut	--	--	4	4	8(M)	8(M)	8(M)
13	Stem nut	--	--	420	420	420	420	420
14	Locking Nut	--	--	35	35	35	35	35
15	Nameplate	--	--	AL	AL	AL	AL	AL
16	Handwheel	--	--	A197	A197	A197	A197	A197
17	Lubricating Gasket	--	--	410	410	410	410	410
18	Packing	--	--	Graphite	Graphite	Graphite	Graphite	Graphite



CL800

Bolted bonnet cryogenic extended bonnet full port & reduced port, OS & Y
Threaded, butt-welded or socket welded ends; design to BS5352

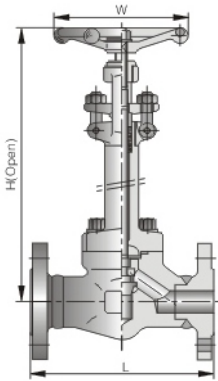
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	
Face to face (mm)	L	79	79	92	111	120	152	172	
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	
Center height (open) (mm)	H	-196°C -101°C	390	390	415	430	460	490	505
		-40°C	350	350	400	410	425	450	480
Flow port dimension (mm)	d	7.0	9.0	13	17.5	23	30	35	
Weight(Kg)		7.2	7.2	7.2	9.5	10.8	13.5	19.8	



CL1500

Bolted bonnet cryogenic extended bonnet full port & reduced port, OS & Y
Threaded, butt-welded or socket welded ends; design to BS5352

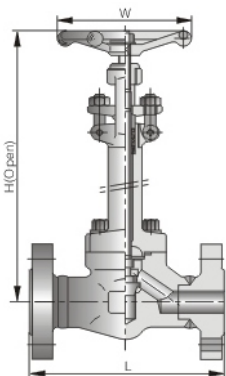
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	
Face to face (mm)	L	92	111	111	120	152	172	220	--	
Handwheel diameter (mm)	W	125	125	125	160	160	180	200	--	
Center height (open) (mm)	H	-196°C -101°C	370	370	370	410	410	474	546	--
		-40°C	350	350	400	410	425	450	480	--
Flow port dimension (mm)	d	12	12	15	20	28	32	40	--	
Weight(Kg)		9.5	9.5	9.5	10.8	13.5	19.8	29	--	



CL150-300-600

Bolted bonnet cryogenic extended bonnet reduced port, OS & Y
Flanged or butt-welded ends; design to BS5352

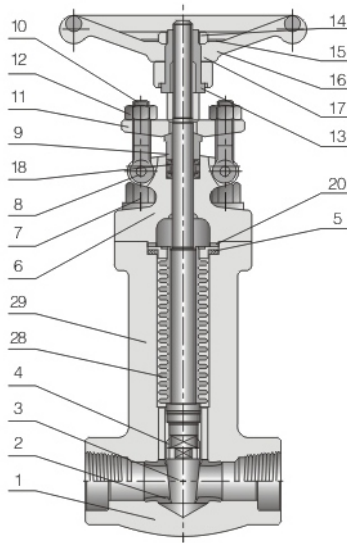
Specification (NPS)	R.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	
Face to face (mm)	L(RF) L1(RF)	CL150	--	--	108	118	127	--	165	203
		CL300	--	--	153	178	203	--	229	267
		CL600	--	--	165	191	216	--	241	292
Handwheel diameter (mm)	W	--	--	100	100	125	--	160	180	
Center height (open) (mm)	H	-196°C -101°C	--	--	390	415	430	--	490	505
		-40°C	--	--	350	400	410	--	450	480
Flow port dimension (mm)	d	--	--	9.0	13	17.5	--	30	35	
Weight (Kg)	CL150	--	--	5	5.8	8.6	--	13.8	24.3	
	CL300	--	--	5.8	6.8	10.3	--	19.3	25.8	
	CL600	--	--	6.3	7.3	10.6	--	20.3	26.8	



CL1500

Bolted bonnet cryogenic extended bonnet full port OS & Y
Flanged or butt-welded ends; design to BS5352

Specification (NPS)	R.P	--	3/8	1/2	3/4	1	1¼	1½
Face to face (mm)	L	--	--	216	229	254	280	368
Handwheel diameter (mm)	W	--	--	125	125	160	160	200
Center height (open) (mm)	H	-196°C -101°C	--	--	370	370	410	546
		-40°C	--	--	350	400	410	425
Flow port dimension (mm)	d	--	--	12	15	20	28	40



Application Standards

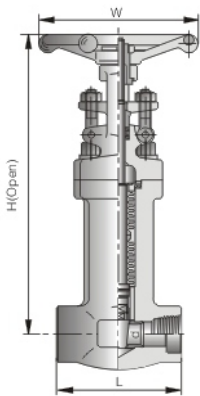
1. Design and manufacture conform to: API 602; MSS-SP-117
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; GB/T13927; JB/T9092
4. Structure Features :
 - Bolted bonnet, outside screw and yoke
 - Welded bonnet, outside screw and yoke
5. Materials conform to ANSI/ASTM.
6. Main materials: A105; 304(L); 316(L); F347; F321; F51
7. Bellow materials: 304, 321, 316, Inconel 625, Hastelloy C 276, Monel

Carbon steel temperature-pressure rate

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

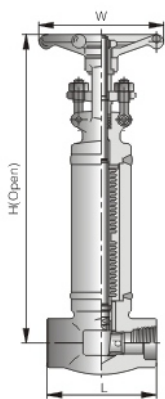
Main part material list

No.	Part Name	A105/F6a	A105/F6aHFS	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)
1	Body	A105	A105	A105	F304(L)	F316(L)
2	Seat	410	410HF	410HF	304(L)	316(L)
3	Wedge disc	F6a	F6a	F6aHF	F304(L)	F316(L)
4	Stem	410	410	410	304(L)	316(L)
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
6	Bonnet	A105	A105	A105	F304(L)	F316(L)
7	Bolt	B7	B7	B7	B8	B8
8	Pin	410	410	410	304	304
9	Gland	410	410	410	304(L)	316(L)
10	Gland eyebolt	B7	B7	B7	B8(M)	B8(M)
11	Gland flange	A105	A105	A105	F304	F304
12	Hex nut	2H	2H	2H	8(M)	8(M)
13	Stem nut	420	420	420	420	420
14	Locking Nut	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197
17	Lubricating Gasket	410	410	410	410	410
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite
20	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
28	Bellow	304	304	304	304(L)	316(L)



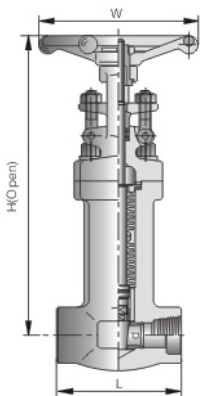
CL800 Bolted bonnet, full port & reducing port outside screw and yoke (OS & Y)
Threaded, butt-welded or socket welded ends; design to API 602, MSS-SP-117

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
Face to face (mm)	L	79	79	92	111	120	120	140
Handwheel diameter (mm)	W	100	100	100	125	160	160	180
Center height (Open) (mm)	H	255	255	285	345	445	545	594
Flow port dimension (mm)	d	7.5	10.5	13.5	18	24	29	36.5
Weight(Kg)		3.0	3.0	3.3	5.9	8.7	10.2	16.2



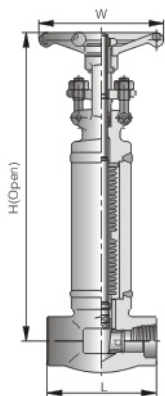
CL800 Welded bonnet, full port & reducing port outside screw and yoke (OS & Y)
Threaded, butt-welded or socket welded ends; design to API 602, MSS-SP-117

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
Face to face (mm)	L	79	92	92	111	120	120	140
Handwheel diameter (mm)	W	100	100	100	125	160	160	180
Center height (Open) (mm)	H	248	548	777	335	437	537	585
Flow port dimension (mm)	d	7.5	10.5	13.5	18	24	29	36.5
Weight(Kg)		2.9	2.9	3.2	4.6	7.2	8.9	15.5



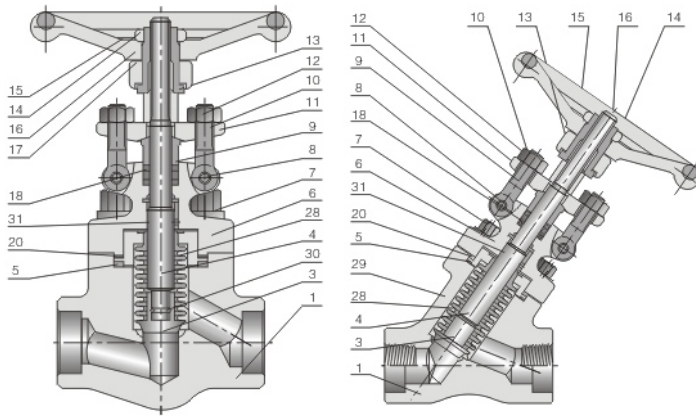
CL1500 Bolted bonnet, full port & reducing port outside screw and yoke (OS & Y)
Threaded, butt-welded or socket welded ends; design to API 602, MSS-SP-117

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
Face to face (mm)	L	92	111	111	120	120	140	172
Handwheel diameter (mm)	W	100	125	125	160	160	480	180
Center height (Open) (mm)	H	255	264	320	379	478	607	636
Flow port dimension (mm)	d	7.5	10.5	13.5	18	24	29	36.5
Weight(Kg)		3.1	5.1	5.1	9.0	10.5	16.7	21



CL1500 Welded bonnet, full port & reducing port outside screw and yoke (OS & Y)
Threaded, butt-welded or socket welded ends; design to API 602, MSS-SP-117

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
Face to face (mm)	L	92	111	111	120	120	140	172
Handwheel diameter (mm)	W	100	125	125	160	160	180	180
Center height (Open) (mm)	H	287	287	312	368	465	595	627
Flow port dimension (mm)	d	7.5	10.5	13.5	18	24	29	36.5
Weight(Kg)		2.9	4.7	4.7	7.4	5.7	16	19



Carbon steel temperature-pressure rate

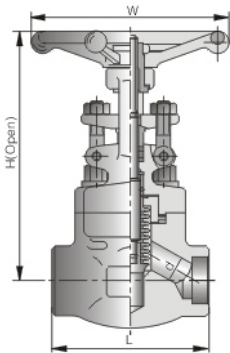
- CL150-285P.S.I @ 100°F
- CL300-740P.S.I @ 100°F
- CL600-1480P.S.I @ 100°F
- CL800-1975P.S.I @ 100°F
- CL1500-3705P.S.I @ 100°F

Application Standards

1. Design and manufacture conform to: ASME 602; MSS-SP-117
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; 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
7. Bellow materials: 304, 321, 316, Inconel 625, Inconel 625, Hastelloy C 276, Monel

Main part materials list

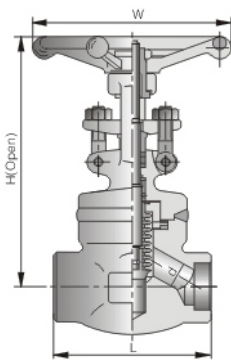
No.	Part Name	A105/F6a	A105/F6aHFS	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)
1	Body	A105	A105+HF	A105+HF	F304(L)	F316(L)
3	Disc	F6a	F6a	F6aHF	F304(L)	F316(L)
4	Stem	410	410	410	304(L)	316(L)
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
6	Bonnet	A105	A105	A105	F304(L)	F316(L)
7	Bolt	B7	B7	B7	B8(M)	B8(M)
8	Pin	410	410	410	304	304
9	Packing bushing	410	410	410	304(L)	316(L)
10	Fyelet bolt	B7	B7	B7	B8(M)	B8(M)
11	Packing gland	A105	A105	A105	F304	F304
12	Hex nut	2H	2H	2H	8(M)	8(M)
13	Stem nut	420	420	420	420	420
14	Locking Nut	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197
17	Lubricating Gasket	410	410	410	410	410
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite
20	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
28	Bellow	304	304	304	304(L)	316(L)
30	Steel wire	304	304	304	304	316
31	Pin	304	304	304	304	316



Bolted bonnet, full port & reducing port outside screw and yoke (OS & Y)
 Threaded, butt-welded or socket welded ends; design to BS5352, MSS-SP-117

CL800

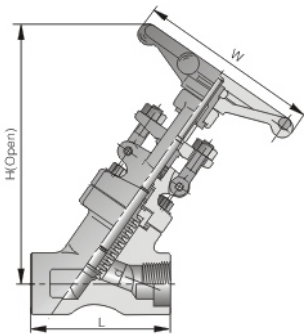
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	79	79	92	111	120	152	172	200	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	200	--
Center height (Open) (mm)	H	162	162	164	200	220	257	295	350	--
Flow port dimension (mm)	d	7.0	9.0	13	17.5	23	30	35	46	--
Weight(Kg)		2.5	2.3	2.4	4.35	5.75	7.8	12.5	17.5	--



Welded Bolted bonnet, full port & reducing port outside screw and yoke (OS & Y)
 Threaded, butt-welded or socket welded ends; design to BS5352, MSS-SP-117

CL800

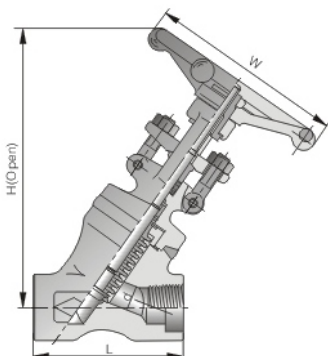
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	79	79	92	111	120	152	172	200	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	200	--
Center height (Open) (mm)	H	162	162	164	200	220	257	295	350	--
Flow port dimension (mm)	d	7.0	9.0	13	17.5	23	30	35	46	--
Weight(Kg)		1.8	1.7	1.9	3.3	5.2	6.8	10.6	13.8	--



Bolted bonnet, full port & reducing port outside screw and yoke (OS & Y)
 Threaded, butt-welded or socket welded ends; design to BS5352, MSS-SP-117

CL800

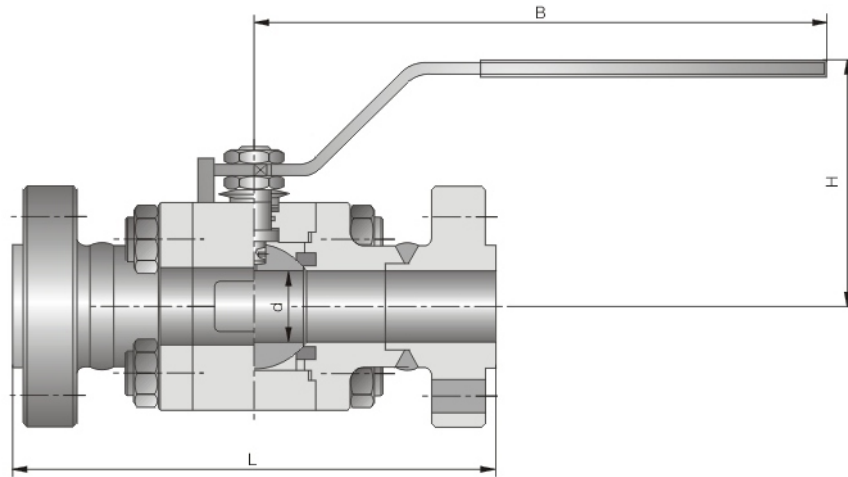
Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	--	--
Face to face (mm)	L	98	98	98	120	140	140	170	--	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	--	--
Center height (Open) (mm)	H	180	180	180	188	280	280	295	--	--
Flow port dimension (mm)	d	7	9	13	17.5	23	30	35	--	--
Weight(Kg)		2.6	2.6	3.8	4.6	9.3	9.3	14	--	--



Welded bonnet, full port & reducing port outside screw and yoke (OS & Y)
 Threaded, butt-welded or socket welded ends; design to BS5352, MSS-SP-117

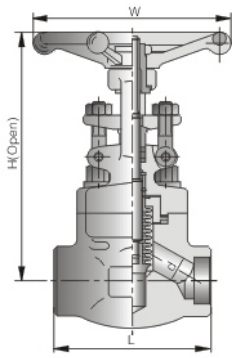
CL800

Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	--	--
Face to face (mm)	L	98	98	98	120	140	140	170	--	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	--	--
Center height (Open) (mm)	H	198	198	198	207	280	280	295	--	--
Flow port dimension (mm)	d	7	9	13	17.5	23	30	35	--	--
Weight(Kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	--	--



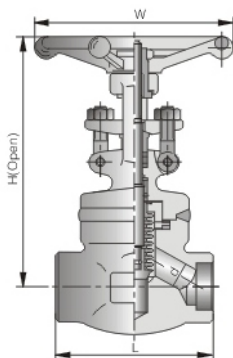
CL1500-CL2500 Flanged or butt-welded ends; design to API 6D face to face conforms to manufacture standard

Specification (NPS)	F.P		1/2	3/4	1	1 ¼	1 ½	2	
Face to face (mm)	L	CL1500	216	229	254	279	305	368	
		CL2500	264	273	308	349	384	451	
Center to handle end (mm)	B	CL1500	230	230	350	280	400	400	
		CL2500	280	280	95	350	400	400	
Center height (mm)	H	CL1500	75	85	85	105	110	130	
		CL2500	75	85	95	105	110	130	
height (handle dimensions) (mm)	d	CL1500	13	19	25	32	38	49	
		CL2500	13	19	25	32	38	42	
Weight(Kg)			CL1500	2.5	5.8	5.8	6.8	11.5	13.7
			CL2500	2.7	6.3	6.3	6.8	12	15



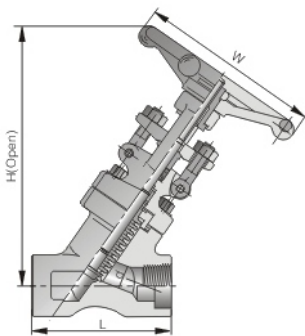
CL800 Welded bonnet, full port & reducing port outside screw and yoke (OS & Y)
Threaded, butt-welded or socket welded ends; design to BS5352, MSS-SP-117

Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	79	79	92	111	120	152	172	200	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	200	--
Center height (Open) (mm)	H	237	237	239	270	298	340	395	470	--
Flow port dimension (mm)	d	7.0	9.0	13	17.5	23	30	35	480	--
Weight(Kg)		2.6	2.5	2.7	4.4	6.7	8.8	15	18.5	--



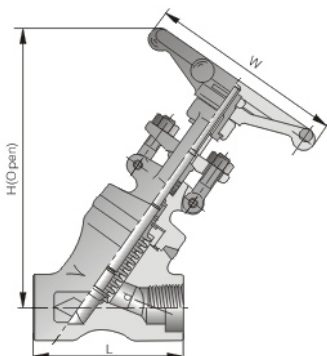
CL800 Bolted bonnet, full port & reducing port outside screw and yoke (OS & Y)
Threaded, butt-welded or socket welded ends; design to BS5352, MSS-SP-117

Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	79	79	92	111	120	152	172	200	--
Handwheel diameter (mm)	W	100	100	100	125	160	160	180	200	--
Center height (Open) (mm)	H	237	237	239	270	298	340	395	470	--
Flow port dimension (mm)	d	7.0	9.0	13	17.5	23	30	35	46	--
Weight(Kg)		3.3	3.7	4.2	5.5	7.25	9.8	16	21	--



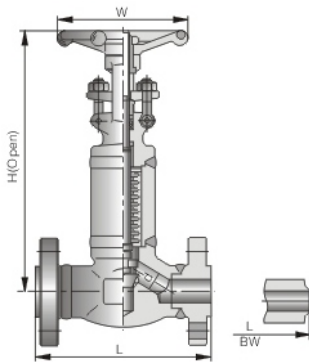
CL1500 Welded bonnet, full port outside screw and yoke (OS & Y)
Threaded, butt-welded or socket welded ends; design to BS5352, MSS-SP-117

Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L	92	92	111	111	120	152	172	220
Handwheel diameter (mm)	W	100	100	125	125	160	160	180	200
Center height (Open) (mm)	H	290	330	380	380	400	450	520	650
Flow port dimension (mm)	d	7	9	12	15	20	28	32	40
Weight(Kg)		3.3	3.5	5	7.5	10	16	27	30



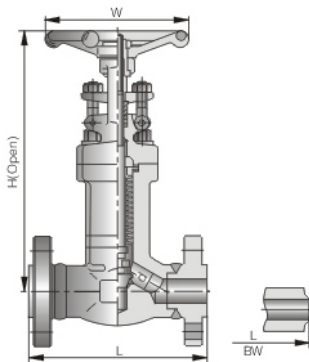
CL1500 Bolted bonnet, full port outside screw and yoke (OS & Y)
Threaded, butt-welded or socket welded ends; design to BS5352, MSS-SP-117

Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L	92	92	111	111	120	152	172	220
Handwheel diameter (mm)	W	100	100	125	125	160	160	180	200
Center height (Open) (mm)	H	290	330	380	380	400	450	520	650
Flow port dimension (mm)	d	7	9	12	15	20	28	32	40
Weight(Kg)		3.3	3.5	5	7.5	10	16	27	30



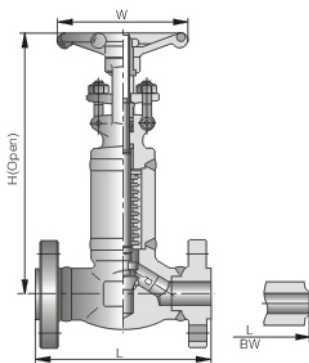
CL150-300-600 Welded bonnet, full port & reducing port outside screw and yoke (OS & Y)
Flanged-welded or butt-welded ends; design to BS5352, MSS-SP-117

Specification (NPS)			1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	CL150	L(RF)	--	--	108	117	127	140	165	203
	CL300	L(RF)	--	--	152	178	203	216	229	267
	CL600	L1(BW)	--	--	165	190	216	229	241	292
Handwheel diameter (mm)	W	--	--	100	100	125	160	160	180	
Center height (Open) (mm)	CL150/600	H	--	--	340/350	340/350	360/375	380/400	450/470	540/570
	CL600		--	--	360	360	390	430	500	600
Flow port dimension (mm)	d	--	--	9	13	17.5	23	30	35	
Weight (Kg)	CL150	RF/BW	--	--	3.67/3	4.3/3.6	6.3/5.7	10.5/9.5	11.5/9.8	19.5/16
	CL300	RF/GW	--	--	4/3.2	4.8/4	7.3/6.7	13/11	14.5/12	22/18
	CL600	RF/BW	--	--	5.8/4.7	8.1/6	12.5/9	18/14	24.5/18	43/36



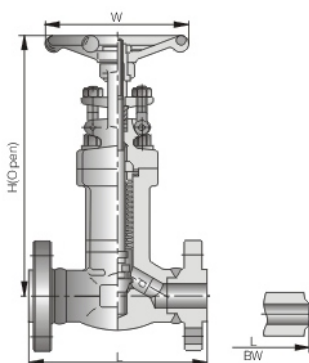
CL150-300-600 Bolted bonnet, full port & reducing port outside screw and yoke (OS & Y)
Flanged-welded or butt-welded ends; design to BS5352, MSS-SP-117

Specification (NPS)			1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	CL150	L(RF)	--	--	108	117	127	140	165	203
	CL300	L(RF)	--	--	152	178	203	216	229	267
	CL600	L1(BW)	--	--	165	190	216	229	241	292
Handwheel diameter (mm)	W	--	--	100	100	125	160	160	180	
Center height (Open) (mm)	CL150/600	H	--	--	340/350	340/350	360/375	380/400	450/470	540/570
	CL600		--	--	360	360	390	430	500	600
Flow port dimension (mm)	d	--	--	9	13	17.5	23	30	35	
Weight (Kg)	CL150	RF/BW	--	--	4.17/3.5	4.8/4.1	7.7/6.7	12.5/11.5	14/11.5	21.5/18
	CL300	RF/GW	--	--	4.5/3.7	5.2/4.5	8.3/7.7	14.5/12.5	16/13.5	24/20
	CL600	RF/BW	--	--	6.3/5.2	8.6/6.5	13.5/10	19.5/15.5	26/19.5	44/38



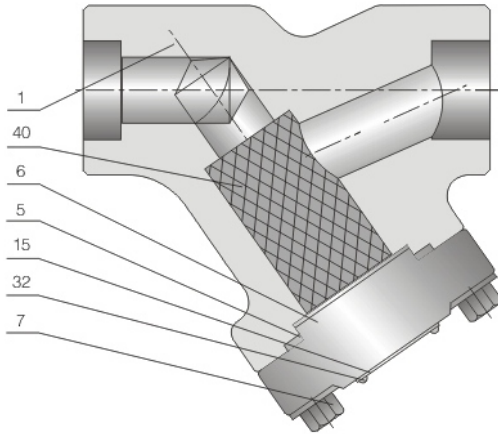
CL1500 Welded bonnet, full port outside screw and yoke (OS & Y)
Flanged-welded or butt-welded ends; design to BS5352, MSS-SP-117

Specification (NPS)			1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L(RF), L1(BW)	L(RTJ)	--	--	216	229	254	280	305	368
		L(RTJ)	--	--	216	229	254	280	305	371
Handwheel diameter (mm)	W	--	--	125	125	160	160	180	200	
Center height (Open) (mm)	H	--	--	380	380	400	450	520	650	
Flow port dimension (mm)	d	--	--	12	15	20	28	32	40	
Weight(Kg)			--	--	11.1	11.8	14.1	16.5	23.8	37.5



CL1500 Bolted bonnet, reducing port outside screw and yoke (OS & Y)
Flanged-welded or butt-welded ends; design to BS5352, MSS-SP-117

Specification (NPS)			1/4	3/8	1/2	3/4	1	1¼	1½	2
Face to face (mm)	L(RF), L1(BW)	L(RTJ)	--	--	216	229	254	280	305	368
		L(RTJ)	--	--	216	229	254	280	305	371
Handwheel diameter (mm)	W	--	--	125	125	160	160	180	200	
Center height (Open) (mm)	H	--	--	380	380	400	450	520	650	
Flow port dimension (mm)	d	--	--	12	15	20	28	32	40	
Weight(Kg)			--	--	11.6	12.3	15	17.5	25	38.3



Carbon steel temperature-pressure rate

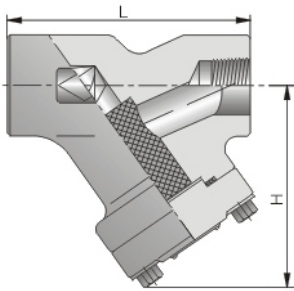
- CL150-285P.S.I @ 100°F
- CL300-740P.S.I @ 100°F
- CL600-1480P.S.I @ 100°F
- CL800-1975P.S.I @ 100°F
- CL1500-3705P.S.I @ 100°F
- CL2500-6170P.S.I @ 100°F

Application Standards

1. Design and manufacture conform to: BS5352
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; GB/T13927; JB/T9092
4. Structure Features : Bolted bonnet or welded bonnet
5. Materials conform to ANSI/ASTM.
6. Main materials: A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 Alloy

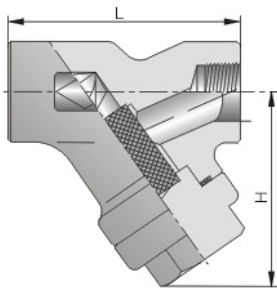
Main part material list

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
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
15	Namaplate	AL	AL	AL	AL	AL	AL	AL
32	Rivet	H62	H62	H62	H62	H62	H62	H62
40	Filter screen	304	304	304	304	304(L)	316(L)	F51



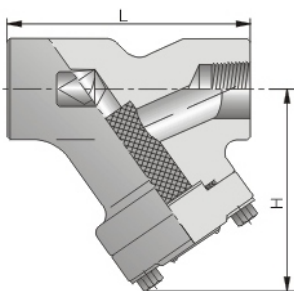
CL800 Bolted bonnet, full port & reducing port
Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	--	--
Face to face (mm)	L	98	98	98	120	140	140	170	--	--
Center height (Open) (mm)	H	70	70	70	100	110	120	120	--	--
Flow port dimension (mm)	d	7	9	13	17.5	30	30	35	--	--
Weight(Kg)		2.2	2.2	2.1	4.2	8.9	8.9	10	--	--



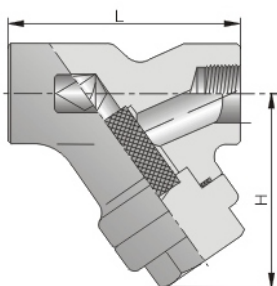
CL800 Welded bonnet, full port & reducing port
Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	R.P	--	1/2	3/4	1	1¼	1½	2	2½	3
	F.P	1/4	3/8	1/2	3/4	1	1¼	1½	--	--
Face to face (mm)	L	98	98	98	120	140	140	170	--	--
Center height (Open) (mm)	H	65	65	65	95	105	110	110	--	--
Flow port dimension (mm)	d	7	9	13	17.5	23	30	35	--	--
Weight(Kg)		1.8	1.8	2.0	3.5	9	8.0	12	--	--



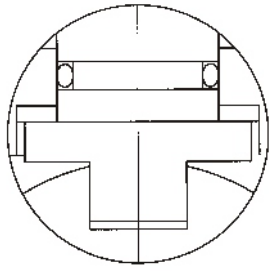
CL900-CL1500 Bolted bonnet, full port
Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	F.P	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	120	120	120	140	170	170	220	--
Center height (Open) (mm)	H	70	70	100	110	110	120	150	--
Flow port dimension (mm)	d	9	12	15	20	28	32	40	--
Weight(Kg)		2.1	4.2	9	8.9	10	18.6	20	--

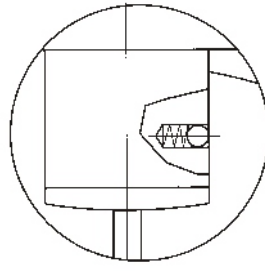


CL900-CL1500 Welded bonnet, full port
Threaded, butt-welded or socket welded ends; design to BS5352

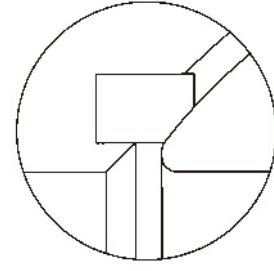
Specification (NPS)	F.P	3/8	1/2	3/4	1	1¼	1½	2	2½
Face to face (mm)	L	120	120	120	140	170	170	220	--
Center height (Open) (mm)	H	65	65	95	105	110	110	140	--
Flow port dimension (mm)	d	9	12	15	20	28	32	40	--
Weight(Kg)		2.0	3.5	8.0	8.0	12	16	18	--



Blow out proof stem



Anti static

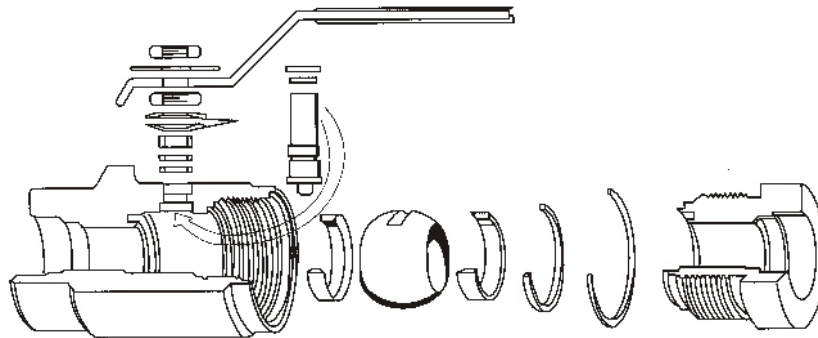


Fire safe

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

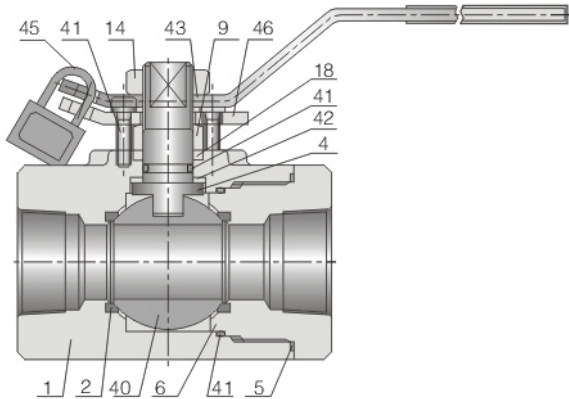
Design structure

Seat is made PTFE reinforced with 25% glass fibre of PEEK. PTFE with 25% glass fibre can gain better performances normally used for class 800 ball valves. PEEK can gain better performances under high pressure and high temperature normally used of class 1500 ball valves. Anti static/fire safe/blow out proof stem



Flow coefficient Cv

NPS	Cv Value	
	Full port	Reduced port
1/4	8	--
3/8	8	--
1/2	12	8
3/4	33	12
1	48	33
1 1/4	83	48
1 1/2	120	83
2	250	120



Carbon steel temperature-pressure rate

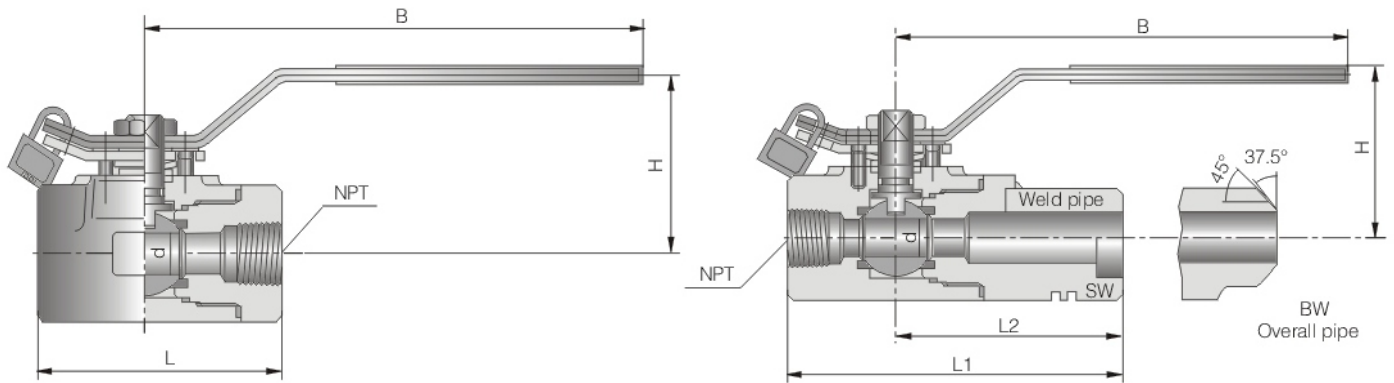
- CL150-285P.S.I @ 100°F
- CL300-740P.S.I @ 100°F
- CL600-1480P.S.I @ 100°F
- CL800-1975P.S.I @ 100°F
- CL1500-3705P.S.I @ 100°F

Application Standards

1. Design and manufacture conform to: BS5351
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; GB/T13927; JB/T9092
4. Structure Features : Bolted bonnet, two-piece;
5. Materials conform to ANSI/ASTM.
6. Main materials: A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 Alloy.

Main part material list

No.	Part Name	A105/F6a	A105/F6aHFS	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)
1	Body	A105	LF2	F304(L)	F316(L)	F51
2	Seat	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK
4	Stem	410	304	304(L)	316(L)	F51
5	Gasket	PTFE	PTFE	PTFE	PTFE	PTFE
6	Bonnet	A105	LF2	F304	F316	F51
9	Gland	410	304	304(L)	316(L)	F51
11	Gland flange	A105	A105	F304	F304	F304
14	Flat nut	8	8	8	8	8M
18	Packing	PTFE	PTFE	PTFE	PTFE	PTFE
40	Ball	F304	F304	F304(L)	F316(L)	F51
41	O-ring	VITON	VITON	VITON	VITON	VITON
42	Back seat gasket	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK
43	Wrench	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025
44	Screw	88	88	88	88	88
45	Lock	Finished products	Finished products	Finished products	Finished products	Finished products
46	Locator	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025

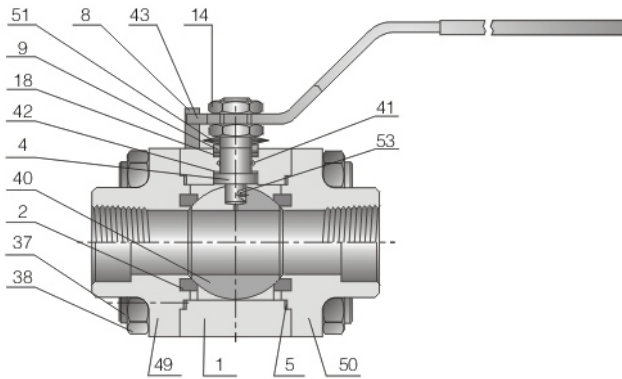


CL800 Connection ends may be pipe-welded (butt-welding or socket welding) and/or threaded, dedsign to BS5351

Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1 ¼	1 ½	2	2 ½
Face to face (mm)	L	60	60	75	80	90	110	120	140	--
Center to hand end (mm)	B	160	160	160	160	170	230	230	280	--
Center height (Open) (mm)	H	60	60	60	65	85	105	105	125	--
Flow port dimension (mm)	d	6	9	13.5	19	24	32	38	49	--
Weight(Kg)		1.2	0.9	1.3	2.2	3.5	6.5	6.5	11	--

CL1500-CL2500 Connection ends may be pipe-welded (butt-welding or socket welding) and/or threaded, dedsign to BS5351

Specification (NPS)	F.P		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face (mm)	L1	CL1500	70	75	85	95	105	120	130	150
		CL2500	--	--	125	135	155	--	155	--
Center to hand end (mm)	B	CL1500	160	160	160	170	230	230	280	280
Center height (Open) (mm)	H	CL2500	60	60	65	85	105	105	125	--
Flow port dimension (mm)	d	CL1500	6	6	13	19	25	32	38	49
Weight(Kg)		CL2500	1.2	1.5	2.5	3.7	5.8	--	11.5	13.7



Carbon steel temperature-pressure rate

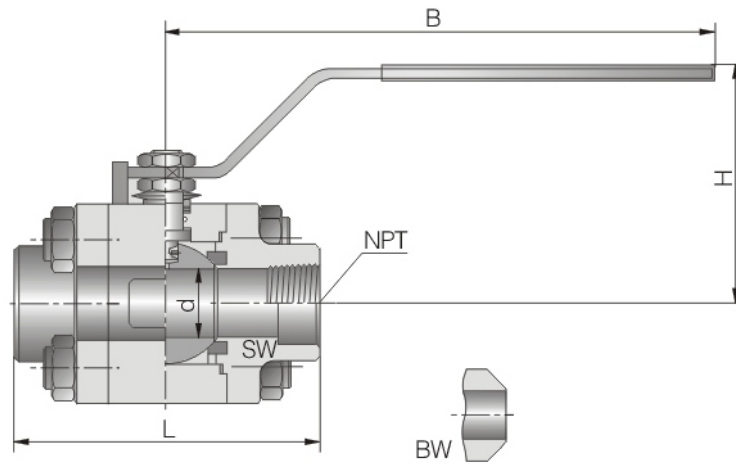
CL150-285P.S.I @ 100°F
 CL300-740P.S.I @ 100°F
 CL600-1480P.S.I @ 100°F
 CL800-1975P.S.I @ 100°F
 CL1500-3705P.S.I @ 100°F

Application Standards

1. Design and manufacture conform to: BS5351
2. Connection ends conform to:
 - 1) Screw ends dimension conform to ANSI B16.11; JB/T1751
 - 2) Screw ends Dimension conform to ANSI B1.20.1; JB/T7306
 - 3) Test and inspection conform to ANSI B16.25; JB/T12224
 - 4) Structure features: ANSI B16.5; JB79
3. Test and inspection conform to: API598; GB/T13927; JB/T9092
4. Structure Features : Bolted bonnet, three-piece;
5. Materials conform to ANSI/ASTM.
6. Main materials: A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 Alloy.

Main part material list

No.	Part Name	A105/F6a	LF2/304	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	LF2	F304(L)	F316(L)	F51
2	Seat	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK
4	Stem	410	304	304(L)	316(L)	F51
5	Gasket	PTFE	PTFE	PTFE	PTFE	PTFE
8	Pin	25	304	304	304	304
9	Gland	410	304	304(L)	316(L)	F51
14	Flat nut	8	8	8	8M	8M
18	Packing	PTFE	PTFE	PTFE	PTFE	PTFE
37	Bolt	B7	L7	B8	B8M	B8M
38	Nut	2H	4	8	8M	8M
40	Ball	F304	F304	F304(L)	F316(L)	F51
41	O-ring	VITON	VITON	VITON	VITON	VITON
42	Back seat gasket	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK	RPTFE PEEK
43	Wrench	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025	ANSI 1025
49	Left bonnet	A105	LF2	F304	F316	F51
50	Right bonnet	A105	LF2	F304	F316	F51
51	Butterfly spring	65Mn	65Mn	304	304	304
52	Elastic washer	65Mn	65Mn	304	304	304
53	Anti-static spring	304	304	304	316L	X-750



CL1500 Connection ends may be pipe-welded (butt-welding or socket welding) and/or threaded, design to BS5351

Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1 ¼	1 ½	2	
Face to face (mm)	L	75	75	85	100	115	130	150	180	
Center to handel end (mm)	B	108	108	108	146	178	178	200	200	
Center height (Open) (mm)	H	51	51	51	108	81	85	105	105	
Height (andle dimensions) (mm)	d	CL800	6	9	13	18	23	28	35	49
		CL1500	6	9	13	19	25	32	38	49

CL1500 Connection ends may be pipe-welded (butt-welding or socket welding) and/or threaded, design to BS5351

Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1 ¼	1 ½	2	
Face to face (mm)	L	85	85	100	120	135	160	185	220	
Center to handle end (mm)	B	108	108	108	146	178	178	200	200	
Center height (mm)	H	51	51	51	108	81	85	105	105	
Height (andle dimensions) (mm)	d	CL800	6	9	13	18	23	28	35	49
		CL1500	6	9	13	19	25	32	38	49

Service promises

Pre-sales: Before ordering or contracting, you may inquire our price, Specification, Product performance Parameters and set-up equipment via phone or other methods, our sales or Tech. staff will patiently give you a detailed information on your inquiry, furthermore, some corresponding documents may be available on request.

Sales-proceedt. During the product manufacture, you can call us at any time inquiring on the product procedure or status; you can also dispatch your staff to our factory for product supervision and acceptance inspection.

After-sale: After finished the product manufacture and packing, normally, we will transport the goods for our customers. We can dispatch our special Tech. Staff to the spot of this product for assembling and adjustment. Meanwhile, our staff will offer you a detailed explication and guidance on the product usage, maintenance and any other details.





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