



Bolted Bonnet



Welded Bonnet



Pressure Seal Bonnet

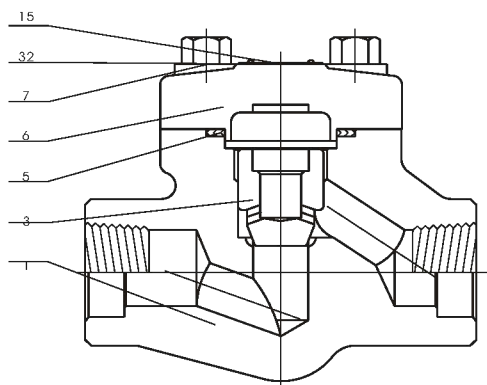
Check valves are available in Three bonnet designs. The first design is the Bolted Bonnet, with male-Female joint, spiral wound gasket, made in F304L/graphite, Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a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

Check Valve Design Construction and Specifications:

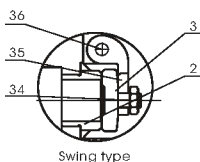
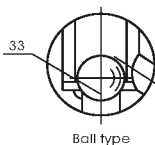
Check valves conform to API 602, and ASME B 16.34
 Each are tested according to API 598, and marking is per MSS SP-25

Construction is as follows:

Full port or Conventional Port
 Outside Screw and Yoke (OS&Y)
 Two piece self-aligning packing gland
 Bolted bonnet with spiral wound gasket, threaded
 and seal welded bonnet or threaded and pressure seal bonnet
 Integral backseat
 Socket weld Ends to ASME B16.11
 Screwed Ends (NPT) to ANSI/ASME B1.20.1



Please mark in you offer if you need loadspring



Application standards

- Design and manufacture conform to BS5352 MSS SP-118;
- Connection ends conform to:
 - Socket welded ends conform to ANSI B16.11;JB/T1751
 - Screw ends conform to ANSI B1.20.1;JB/T7306
 - Butt-welded ends conform to ANSI B16.25;JB/T12224
 - Flanged ends conform to ANSI B16.5;JB79
- Test and inspection conform to:

API 598; GB/T13927; JB/T9092
- Structure features:

Bolted bonnet
- Materials conform to ANSI/ASTM.
- Main materials:

A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; 20 Alloy.

Carbon steel temperature-pressure rate

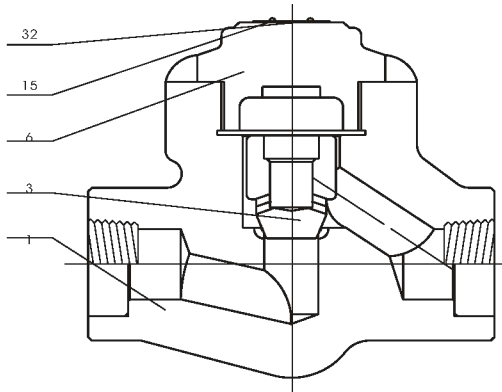
CL150-285 PS.I @ 100° F
 CL300-740 PS.I @ 100° F
 CL600-1480 PS.I @ 100° F
 CL800-1975 PS.I @ 100° F
 CL1500-3705 PS.I @ 100° F

Main part materials list

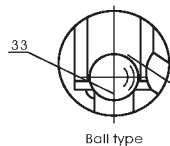
NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Seat ring	410	410HF	304	410HF	304(L)	316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible 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	430	430	304	STL	316(L)	316(L)	STL
34	Disc nut	2H	2H	8	8	8(M)	8(M)	8M
35	Hinge	410	410	304	410	316(L)	316(L)	F51
36	Pin	410	410	304	410	304(L)	316(L)	F51

FEMALE THREADED AND SOCKET WELDED CHECK VALVES

Female threaded and socket welded check valves



Please mark in you offer if you need load spring



Application standards

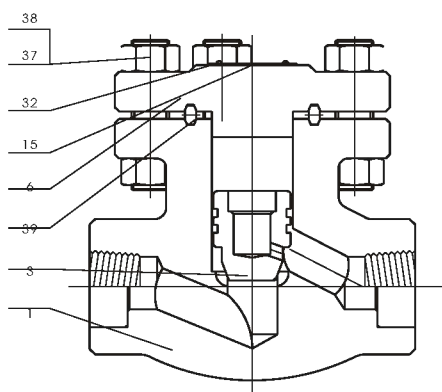
- 1、Design and manufacture conform to BS5352 MSS SP-118;
- 2、Connection ends conform to:
 - 1)Socket welded ends conform to ANSI B16.11;JB/T1751
 - 2)Screw ends conform to ANSI B1.20.1;JB/T7306
 - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
 - 4)Flanged ends conform to ANSI B16.5;JB79
- 3、Test and inspection conform to: API 598; GB/T13927; JB/T9092
- 4、Structure features:
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.

Carbon steel temperature-pressure rate

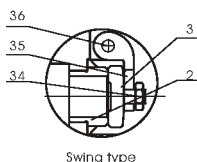
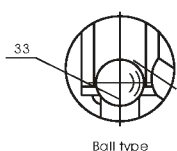
CL150-285 P.S.I @ 100° F
 CL300-740 P.S.I @ 100° F
 CL600-1480 P.S.I @ 100° F
 CL800-1975 P.S.I @ 100° F
 CL1500-3705 P.S.I @ 100° F
 CL2500-6170 P.S.I @ 100° F

Main part materials list

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



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Application standards

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

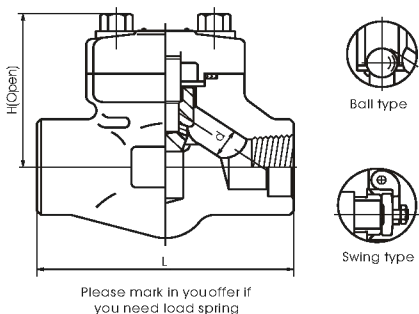
Carbon steel temperature-pressure rate

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

Main part materials list

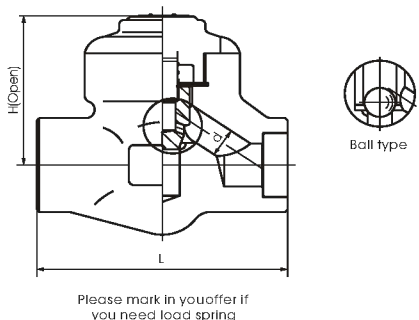
NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Seat ring	410	410HF	304	410HF	304(L)	316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
32	Revit	AL	AL	AL	AL	AL	AL	AL
33	Steel ball	430	430	304	STL	316(L)	316(L)	STL
34	Disc nut	2H	2H	8	8	8(M)	8(M)	8M
35	Hinge	410	410	304	410	316(L)	316(L)	F51
36	Pin	410	410	304	410	304(L)	316(L)	F51
37	Screwed stud	B7	B7	L7	B16	B8(M)	B8(M)	B8(M)
38	Nut	2H	2H	8	8	8(M)	8(M)	8(M)
39	Metal ring	304	304	304	304	304(L)	316(L)	F51

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



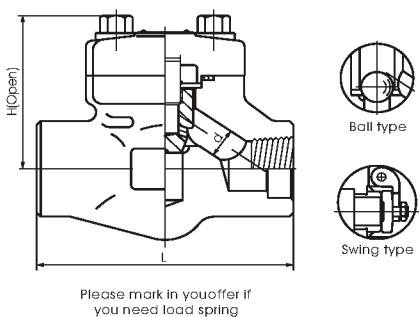
Specification (NPS)	R.P			1/2	3/4	1	1 1/4	1 1/2	2	
	F.P		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	Lift	79	79	92	111	120	152	172	200
		Swing	79	79	92	111	120	120	140	178
Height	H	Lift	61	61	61	78	84	84	118	132
		Swing	61	61	61	78	84	84	120	133
Height (angle dinmension)	d	Lift	7	9	13	17.5	23	30	35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

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



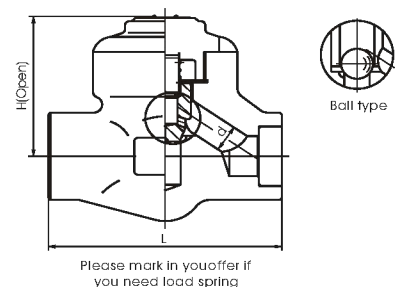
Specification (NPS)	R.P		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	79	79	92	111	120	152	172	200
Height	H	61	61	61	78	84	103	118	132
Height (angle dinmension)	d	7	9	13	17.5	23	30	35	46
Weight(Kg)		1.2	1.3	1.5	3.0	3.9	6.0	10	12

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

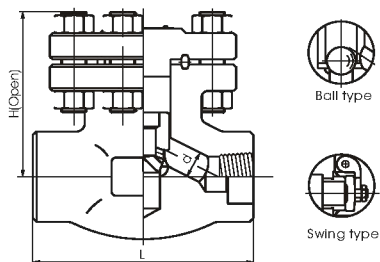


Specification (NPS)	R.P			1/2	3/4	1	1 1/4	1 1/2	2	
	F.P		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	Lift	92	111	111	120	152	172	200	
		Swing	92	111	111	120	120	140	178	
Height	H	Lift	61	78	78	84	103	118	132	
		Swing	61	78	78	84	101	120	133	
Height (angle dinmension)	d	Lift	7	12	15	20	28	32	40	
	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

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



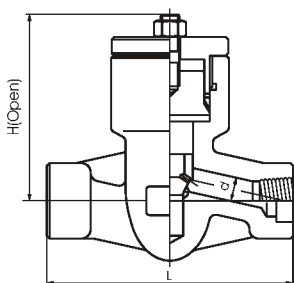
Specification (NPS)	R.P		1/2	3/4	1	1 1/4	1 1/2	2	
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	92	111	111	120	152	172	200	
Height	H	61	78	78	84	103	118	132	
Height (angle dinmension)	d	7	12	15	20	28	32	40	
Weight(Kg)		1.3	3.1	3.1	3.9	5.8	10.0	11.5	



CL900-CL1500

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

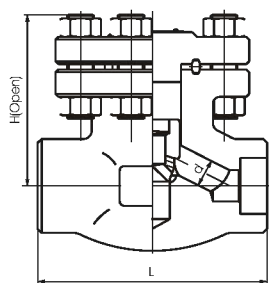
Specification (NPS)	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	110	110	110	110	150	150	210	235
Height	H	166	166	171	207	240	258	330	355
Height (angle dimension)	Lift	9	10	12	15	20	28	32	40
	Swing	8	10.5	13.5	18	24	29	36.5	45
Weight(Kg)	Lift	2	2.1	1.9	4	5.1	7.2	12.1	14
	Swing	1.9	2.3	2.3	4.35	5.25	7.8	12.5	14.6



CL900-CL1500

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

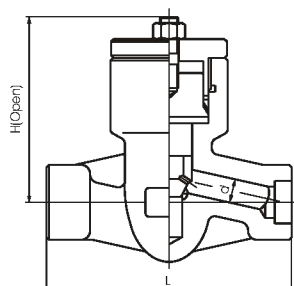
Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face	L	140	140	140	178	216	216			
Height	H	117	117	117	152	195	195			
Height (angle dimension)	d	12	15	20	28	32	40			
Weight(Kg)		7.5	7.0	6.8	18.5	20.3	22			



CL2500

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

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



CL2500

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

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