

Forged Steel Check Valve Series

Application Standards

Design: API602, Bs5352, ANSI B16.34, MSS SP-118

Socket welded dimension: ANSI B16.11, JB/T1751

Screw ends dimension: ANSI B1.20.1, JB/T7306

Butt-welded ends: ANSI B16.25, JB/T12224

Flanged ends: ANSI B16.5, JB79

Test and inspection: API 598, GB/T13927, JB/T9092

Main Features

Bolted bonnet

Welded bonnet

Materials conform to ANSI/ASTM

Temperature Pressure Rate of Carbon Steel

CL150-285 P.S.I @ 100°F

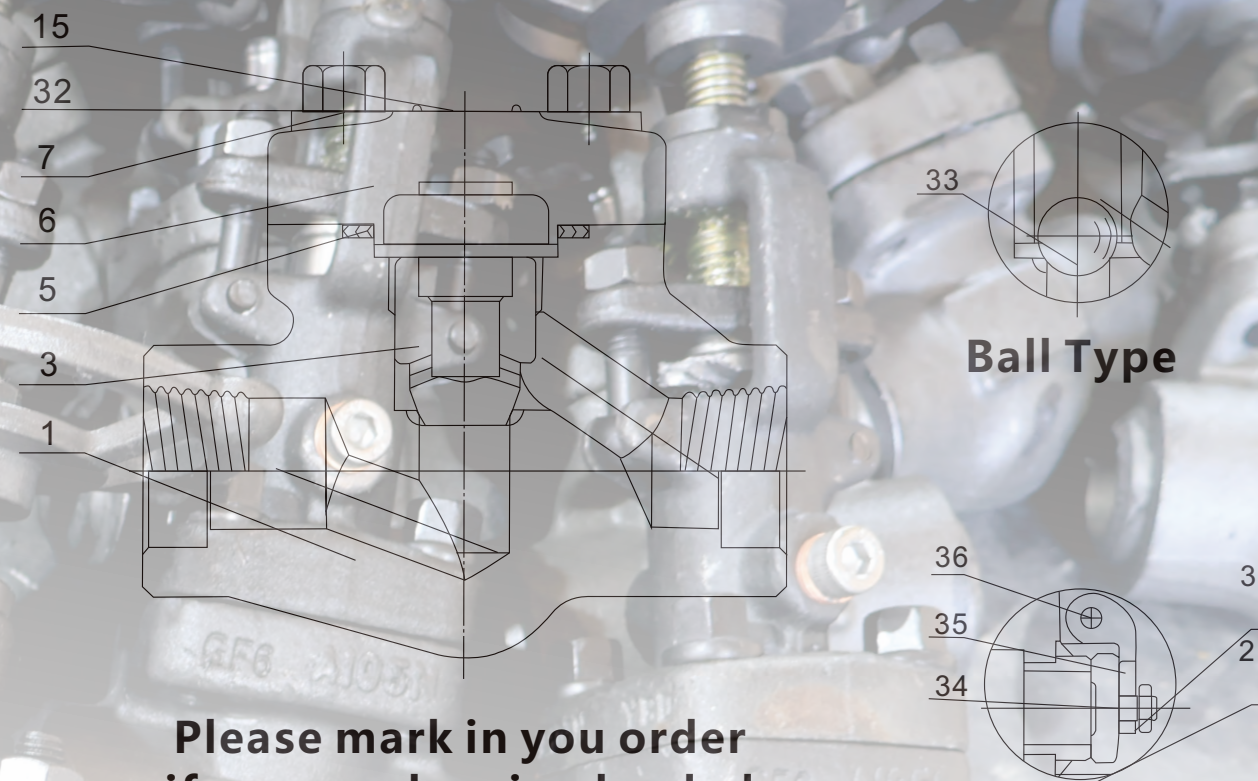
CL300-740 P.S.I @ 100°F

CL600-1480 P.S.I @ 100°F

CL800-1975 P.S.I @ 100°F

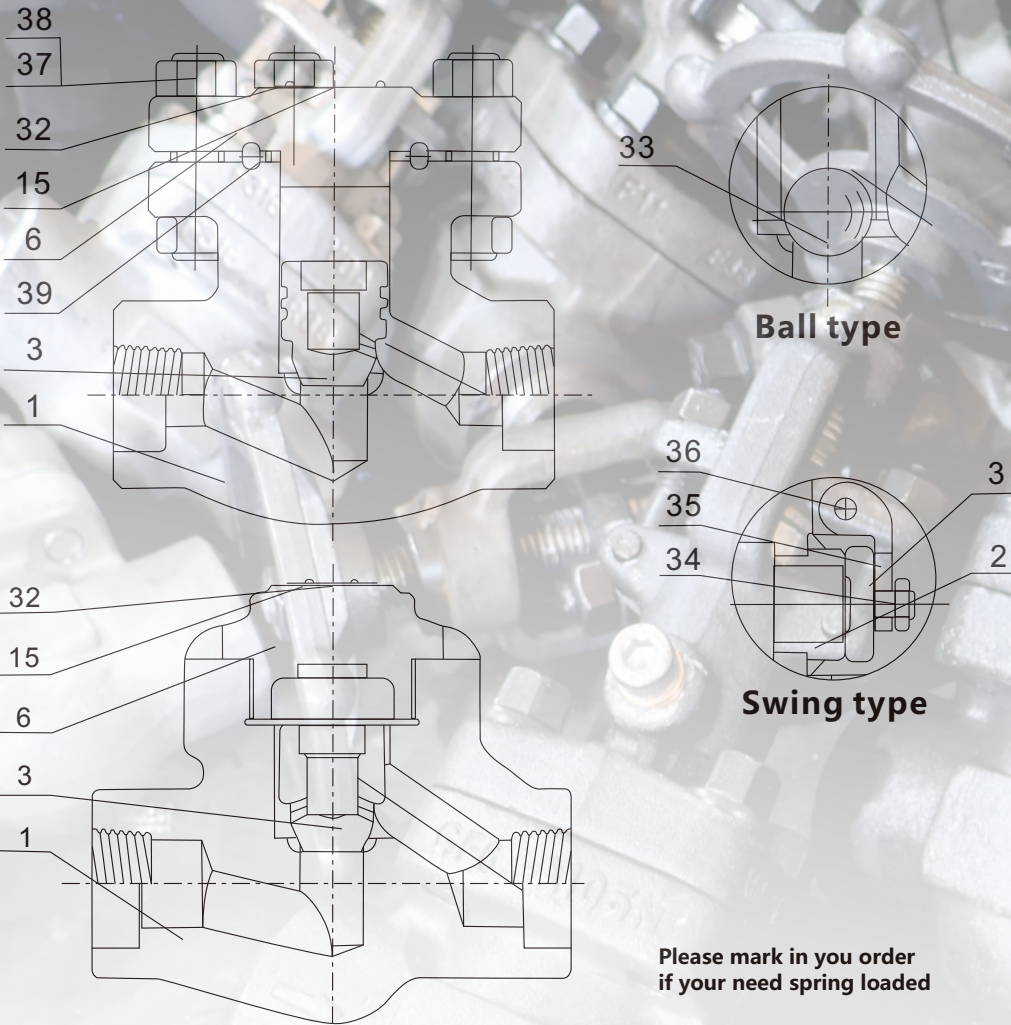
CL1500-3705 P.S.I @ 100°F

CL2500-6170 P.S.I @ 100°F

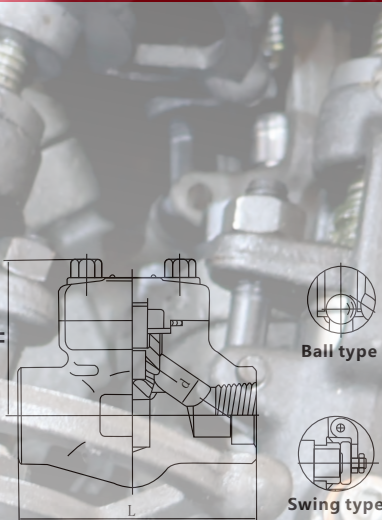


Please mark in you order
if you need spring loaded

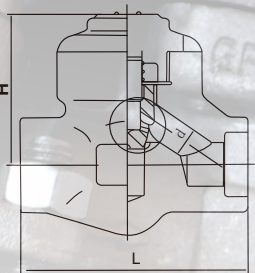
NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Seat	410	410HF	304	410HF	304(L)	316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	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



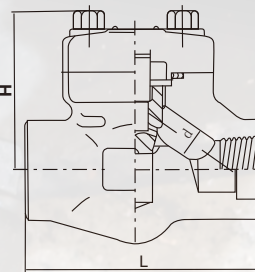
NO.	Part Name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Seat	410	410HF	304	410HF	304(L)	316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
15	Nameplate	AL	AL	AL	AL	AL	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



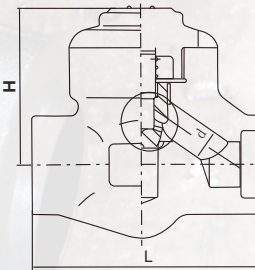
Ball type



Swing type



Ball type



Swing type

Ball type

CL800

(NPS) Specification	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(mm)	L	Lift	79	79	92	111	120	152	172	220
		Swing	79	79	92	111	120	120	140	178
Height (mm)	H	Lift	61	61	61	78	84	84	118	132
		Swing	61	61	61	78	84	84	120	133
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	1.5	1.7	3.3	4.2	4.2	8.5	10.9

CL800

(NPS) Specification	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(mm)	L	79	79	92	111	120	152	172	220
Height (mm)	H	61	61	61	78	84	103	118	132
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

CL900-1500

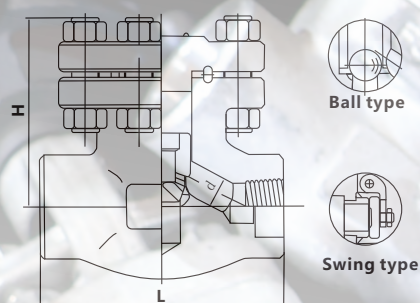
(NPS) Specification	R.P		-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	F.P		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	Lift	92	92	111	120	152	172	220	-
		Swing	92	111	111	120	120	140	178	-
Height (mm)	H	Lift	61	78	78	84	103	118	132	-
		Swing	61	78	78	84	101	120	133	-
Port Dimension(mm)	d	Lift	7	12	15	20	28	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	3.3	3.4	4.2	5.0	8.5	10.9	-

CL900-1500

(NPS) Specification	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(mm)	L	92	92	111	120	152	172	220	-
Height (mm)	H	61	78	78	84	103	118	132	-
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	-

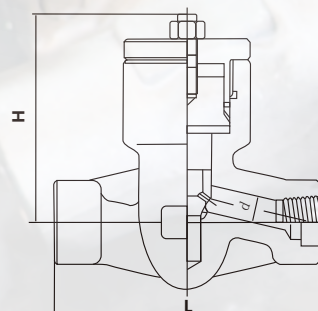
Please mark in your order if you need spring loaded

CL900-1500



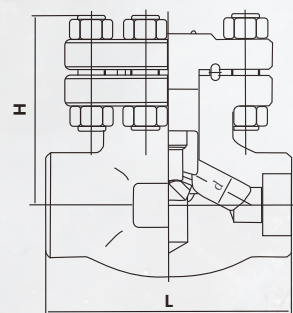
(NPS) Specification	F.P	-	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	-	92	92	92	111	120	152	172	220
Height (mm)	H	-	166	166	171	207	240	258	330	355
Port Dimension(mm)	d	Lift	9	10	12	15	20	28	32	40
		Swing	8	10.5	13.5	18	24	29	36.5	45
Weight(kg)		Lift	2	2.1	1.9	4	5.1	7.2	12.1	14
		Swing	1.9	2.3	2.3	4.35	5.25	7.8	12.5	14.6

CL900-1500



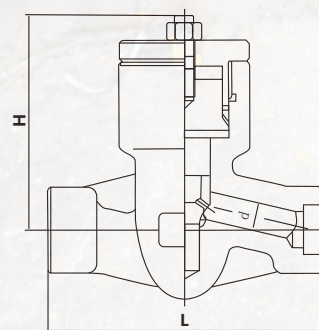
(NPS) Specification	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face(mm)	L	-	140	140	140	178	178	216	-	-
Height (mm)	H	-	117	117	117	152	195	195	-	-
Port Dimension(mm)	d	-	12	15	20	28	32	40	-	-
Weight(kg)		-	6.8	7.0	7.5	18.5	20.3	22	-	-

CL2500

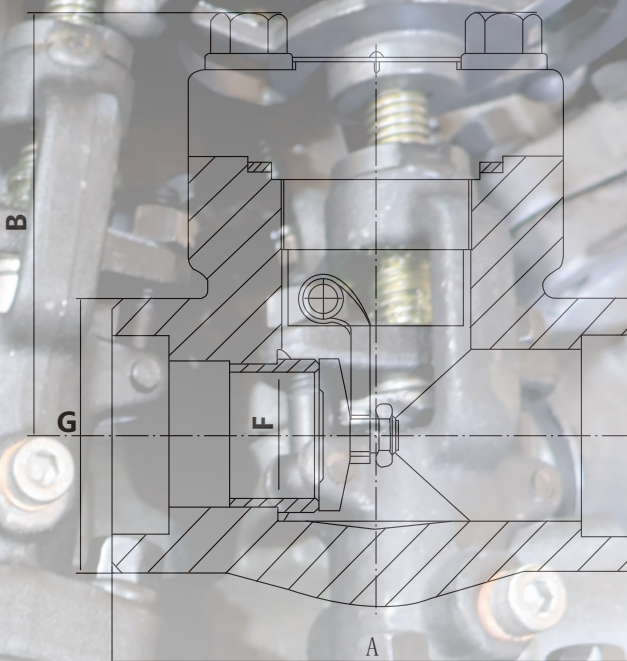


(NPS) Specification	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	186	186	186	186	186	232	232	-
Height (mm)	H	166	166	171	207	240	258	330	-
Port Dimension(mm)	d	7.5	10.5	11	14	19	25	28	-
Weight(kg)		11.9	12.3	17	46	62	73	58	-

CL900-1500



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



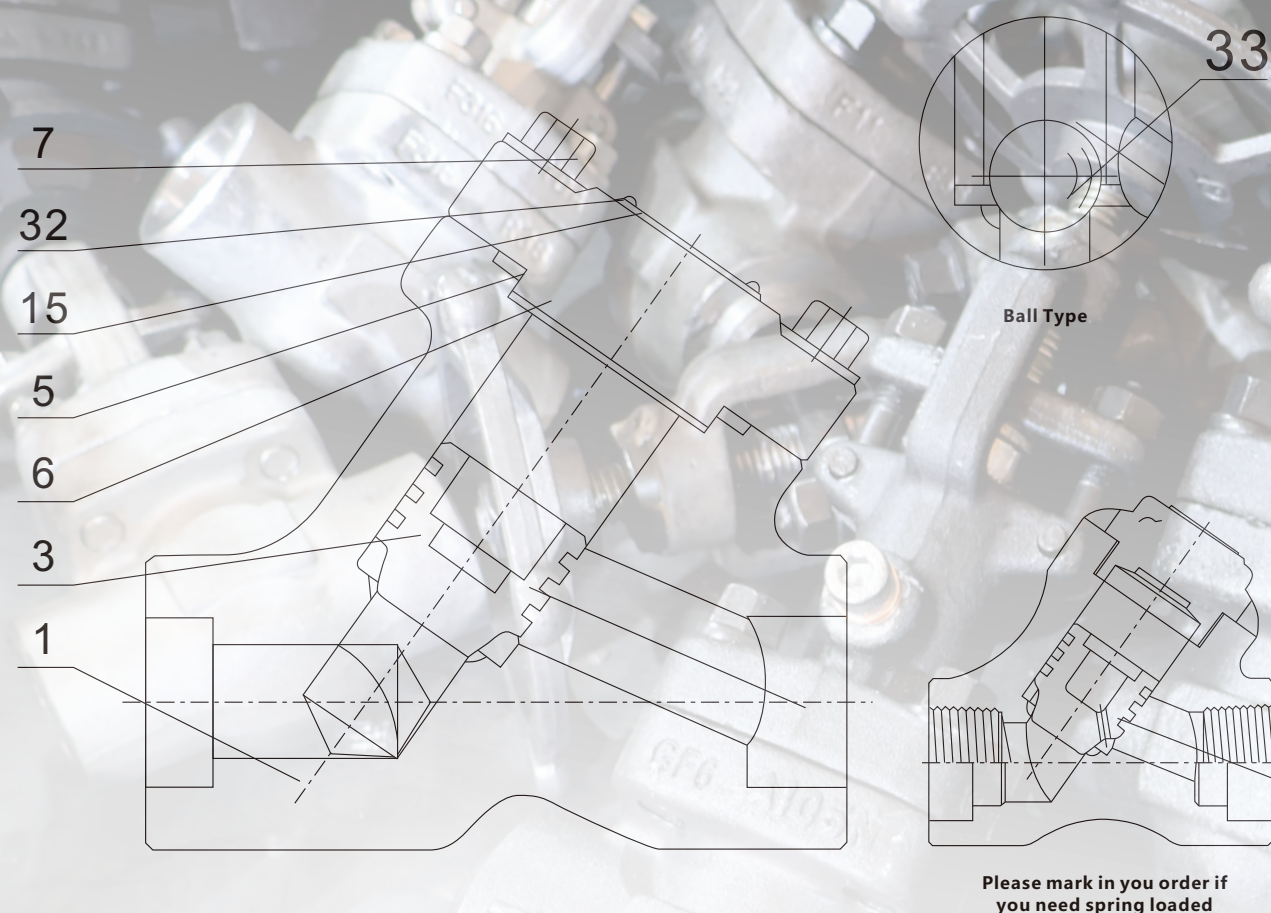
SWING

CLASS-800

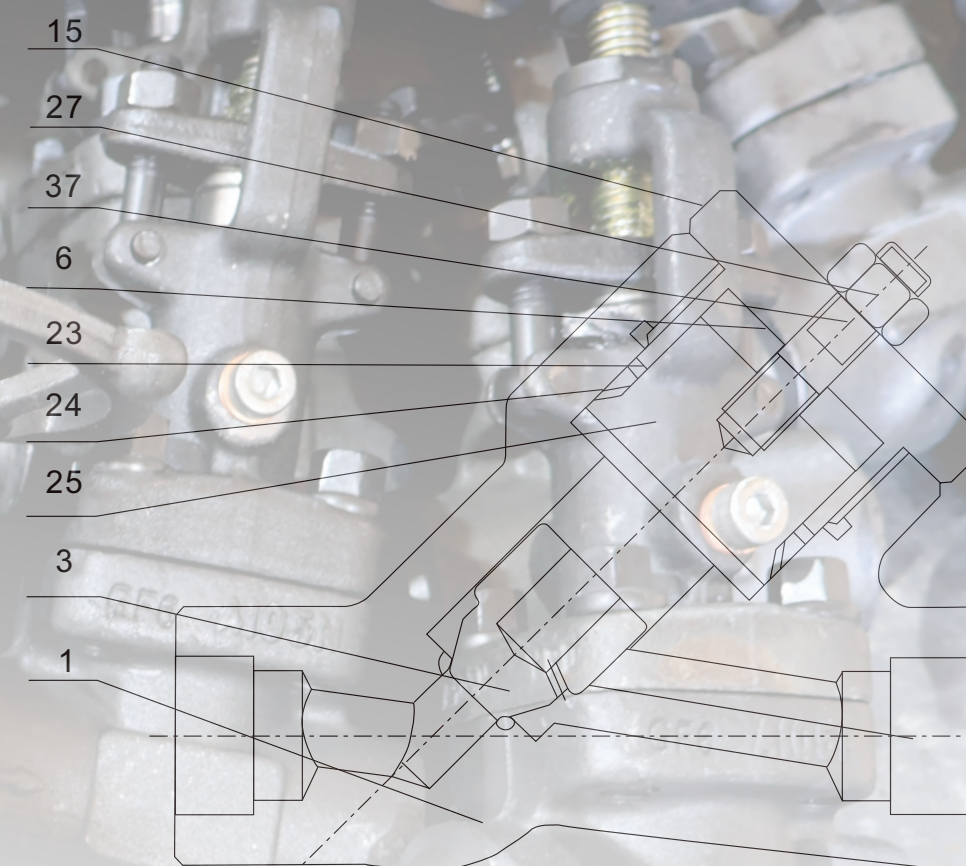
CLASS 800															
REDUCED NORE								FULL BORE							
Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	79	79	79	92	111	120	120	140	A	92	111	120	120	140	160
B	54.5	54.5	54.5	54.5	72	81	94	112	B	54.5	72	81	94	112	132
F	8	13	13	13	18	24	29	36.8	F	13	18	24	29	36.8	48
G	34	34	34	40	49	58	64	78	G	40	49	58	64	78	78
Weight(kg)	1.3	1.3	1.2	1.7	2.4	4.0	5.1	8.8	Weight(kg)	1.7	2.3	3.9	5.0	8.7	15.3

CLASS-1500

CLASS 1500															
REDUCED NORE								FULL BORE							
Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	79	79	92	111	120	120	140	160	A	111	120	120	140	160	220
B	73	73	73	73	84	97	115	132	B	73	84	97	115	132	132
F	6.8	10	13	13	18	24	29	36.8	F	13	18	24	29	36.8	48
G	34	34	34	40	49	58	64	78	G	40	49	58	64	78	88
Weight(kg)	2.2	2.0	2.2	2.7	4.4	6.3	10.3	15.3	Weight(kg)	2.7	4.3	6.2	10.2	15.3	16.7

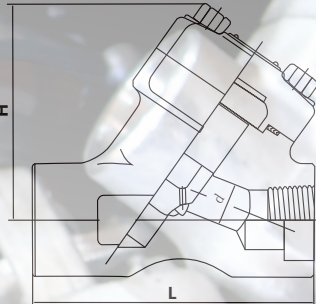


NO.	Part Name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
3	Disc	410	410HF	304	410HF	304(L)	316(L)	F51
5	Gasket	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	304+ Flexible graphite	316+ Flexible graphite	316+ Flexible graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
32	Revit	AL	AL	AL	AL	AL	AL	AL
33	Steel ball	430	430	304	STL	316(L)	316(L)	STL



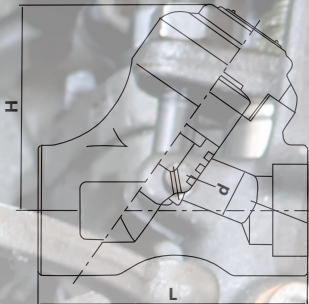
NO.	Part Name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105+HF	LF2	F11+HF	F304(L)	F316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
23	Seal ring gasket	420	420	304	304	304(L)	316(L)	410
24	P.S. ring	304	304	304	304	316L	316L	316L
25	P.S. seat	F410	F410	F304	F410	F304	F316	F51
27	Lift nut	2H	2H	8	8	8(M)	8(M)	8M
37	Lift stud	B7	B7	L7	B16	B8(M)	B8(M)	B8M

CL800



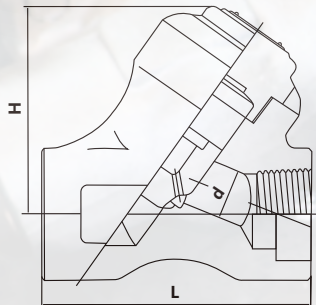
(NPS) Specification	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face(mm)	L	98	98	98	111	140	140	155	170	-
Height (mm)	H	70	70	70	100	110	120	120	150	-
Port Dimension(mm)	d	7	10	13	17.5	23	30	35	46	-
Weight(kg)		2.1	2.2	2.2	4.2	8.9	9	10	18.6	-

CL2500



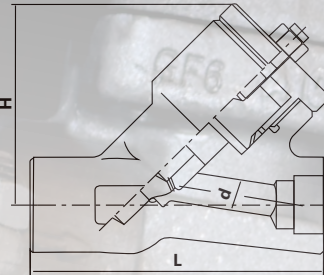
(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	186	186	186	186	232	232	310
Height (mm)	H	115	115	120	150	150	150	160
Port Dimension(mm)	d	9	11	14	19	25	28	35
Weight(kg)		10.6	10.8	11.2	11.5	25	22	39

CL800



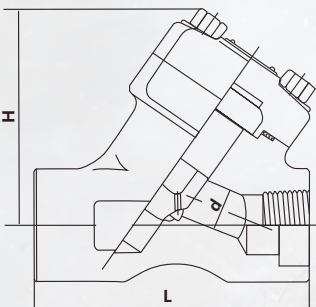
(NPS) Specification	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face(mm)	L	79	79	92	100	140	140	170	170	-
Height (mm)	H	65	65	65	95	105	110	110	140	-
Port Dimension(mm)	d	7	10	13	17.5	23	30	35	46	-
Weight(kg)		1.8	1.8	2.0	3.5	8.0	8.0	12	16	-

CL2500



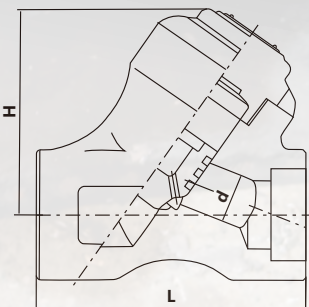
(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	186	186	186	186	232	232	310
Height (mm)	H	233	233	233	233	256	256	330
Port Dimension(mm)	d	9	11	14	19	25	28	35
Weight(kg)		10.6	10.8	11.2	11.5	25	22	39

CL900-1500



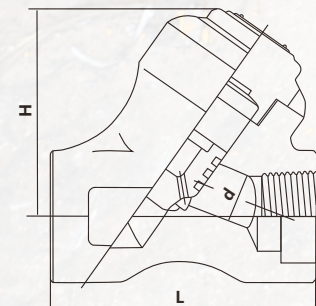
(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
Face to face(mm)	L	98	111	111	140	140	155	170	
Height (mm)	H	70	70	100	110	110	120	150	-
Port Dimension(mm)	d	9	12	15	20	28	32	40	-
Weight(kg)		2.1	4.2	8.9	9	10	18.6	20	-

CL4500



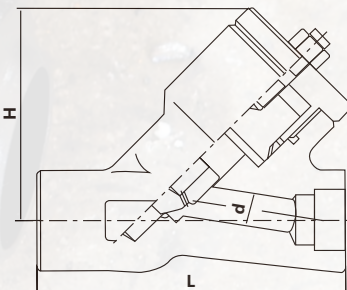
(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	155	155	155	155	-	225	225
Height (mm)	H	120	120	120	145	-	160	160
Port Dimension(mm)	d	9	11	11	15	-	26	28
Weight(kg)		8	8.7	8.7	8.7	-	16.5	16

CL900-1500



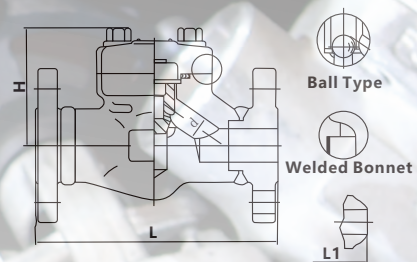
(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
Face to face(mm)	L	92	100	100	140	140	155	170	
Height (mm)	H	65	65	65	105	110	110	140	-
Port Dimension(mm)	d	9	12	15	20	32	28	40	-
Weight(kg)		2.0	3.5	3.5	8.0	12	12	18	-

CI4500



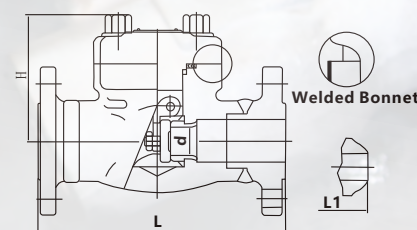
(NPS) Specification	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	L	200	200	200	200	250	250	330
Height (mm)	H	140	140	140	140	160	160	180
Port Dimension(mm)	d	9	11	11	15	20	26	28
Weight(kg)		20	20	20	20	28	28	45

CL150-300-600



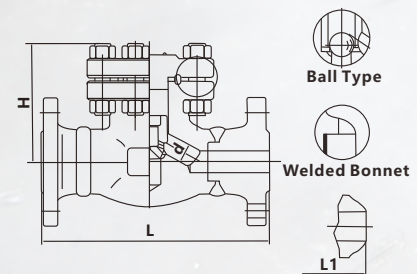
(NPS) Specification		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	CL150	L(RF)	-	-	108	117	127	140	165	203
	CL300	L1(BW)	-	-	152	178	203	216	229	267
	CL600		-	-	165	190	216	229	241	292
Height (mm)	CL150	H	-	-	77	81	93	95	103	118
	CL300, CL600		-	-	61	78	84	101	120	133
Port Dimension(mm)		d	-	-	10	13	17.5	23	30	35
Weight(kg)	CL150	RF	-	-	3.6	4.6	8.5	9.2	12.5	14.8
		BW	-	-	3.0	3.6	7.6	8.5	11.3	13.6
	CL300	RF	-	-	3.7	4.8	8.8	9.6	13.7	17.8
		BW	-	-	3.2	4.3	8.0	8.6	12.7	16.2
	CL600	RF	-	-	4.0	5.8	9.5	10.4	15.6	24.5
		BW	-	-	3.4	5.1	8.8	9.2	14.8	22.5

CL150-300-600



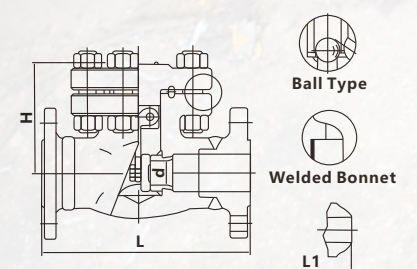
(NPS) Specification		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	CL150	L(RF)	-	-	108	117	127	140	165	203
	CL300	L1(BW)	-	-	152	178	203	216	229	267
	CL600		-	-	165	190	216	229	241	292
Height (mm)	CL150	H	-	-	77	81	93	95	103	118
	CL300, CL600		-	-	61	78	84	101	120	133
Port Dimension(mm)		d	-	-	10	13	17.5	23	30	35
Weight(kg)	CL150	RF	-	-	3.6	4.6	8.5	9.2	12.5	14.8
		BW	-	-	3.0	3.6	7.6	8.5	11.3	13.6
	CL300	RF	-	-	3.7	4.8	8.8	9.6	13.7	17.8
		BW	-	-	3.2	4.3	8.0	8.6	12.7	16.2
	CL600	RF	-	-	4.0	5.8	9.5	10.4	15.6	24.5
		BW	-	-	3.4	5.1	8.8	9.2	14.8	22.5

CL150-300-600



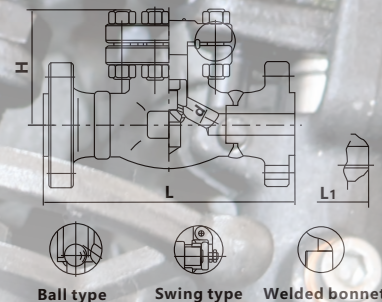
(NPS) Specification		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	CL150	L(RF)	-	-	108	117	127	140	165	203
	CL300	L1(BW)	-	-	152	178	203	216	229	267
	CL600		-	-	165	190	216	229	241	292
Height (mm)	CL150	H	-	-	77	81	93	95	103	118
	CL300, CL600		-	-	61	78	84	101	120	133
Port Dimension (mm)		d	-	-	10	13	17.5	23	30	35
Weight(kg)	CL150	RF	-	-	3.2	3.5	4.6	5.2	7.0	16
		BW	-	-	2.8	3.0	4.0	4.6	6.3	15
	CL300	RF	-	-	4.6	6.1	9.1	12	16	21
		BW	-	-	4.1	5.7	8.4	11.2	14.5	19.5
	CL600	RF	-	-	4.8	6.3	9.3	13	16.5	22
		BW	-	-	4.4	5.9	8.7	12.1	15.8	20.8

CL150-300-600



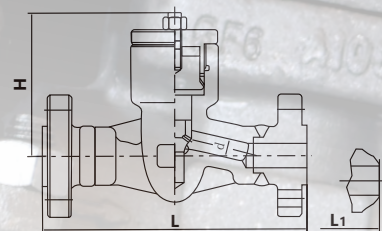
(NPS) Specification		R.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)	CL150	L(RF)	-	-	108	117	127	140	165	203
	CL300	L1(BW)	-	-	152	178	203	216	229	267
	CL600		-	-	165	190	216	229	241	292
Height (mm)	CL150	H	-	-	77	81	93	95	103	118
	CL300, CL600		-	-	61	78	84	101	120	133
Port Dimension (mm)		d	-	-	10.5	13.5	18	24	29	36.5
Weight(kg)	CL150	RF	-	-	3.6	4.6	8.5	9.2	12.5	14.8
		BW	-	-	3.0	3.6	7.6	8.5	11.3	13.6
	CL300	RF	-	-	3.7	4.8	8.8	9.6	13.7	17.8
		BW	-	-	3.2	4.3	8.0	8.6	12.7	16.2
	CL600	RF	-	-	4.0	5.8	9.5	10.4	15.6	24.5
		BW	-	-	3.4	5.1	8.8	9.2	14.8	22.5

CL900-1500



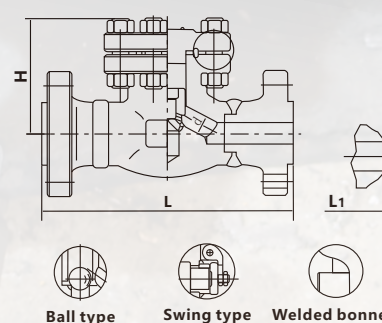
(NPS) Specification		F.P	1/2	3/4	1	1 1/4	1 1/2	2
Face to face(mm)		L(RJ), L1(BW)	216	229	254	279	305	371
Height (mm)		H	81	93	95	101	118	130
Port Dimension(mm)	d	Lift	12	15	20	28	32	40
		Swing	13.5	18	24	29	36.5	45
Weight(kg)		Lift	5.2	6.8	10.5	28	18	24
		Swing	5.0	6.1	10.8	29	17.6	27

CL900-1500



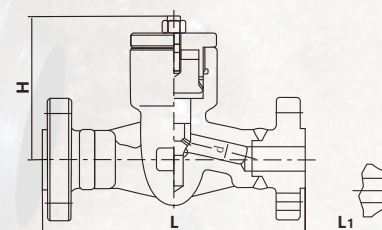
(NPS) Specification		F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
		L(RF), L1(BW)	-	216	229	254	279	305	268
Face to face(mm)		L(RTJ)	-	216	229	254	280	305	371
Height (mm)		H	-	117	117	117	152	152	195
Port Dimension(mm)		d	-	12	15	20	28	32	40
Weight(kg)			-	10.5	11.9	13.9	19.9	26.9	32.5

CL2500



(NPS) Specification	F.P		1/2	3/4	1	1 ¹ / ₄	1 ¹ / ₂	2
Face to face(mm)	L(RJ),L1(BW)		264	273	308	349	384	451
	L(RTJ)		264	273	308	352	387	454
Height (mm)	H		81	93	95	101	118	130
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



(NPS) Specification		F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2
		L(RF), L1(BW)	-	264	273	308	349	384	451
Face to face(mm)		L(RTJ)	-	264	273	308	352	387	454
Height (mm)		H	-	117	117	117	152	152	195
Port Dimension(mm)		d	-	12	15	20	32	28	40
Weight(kg)			-	12.6	14.9	16.5	24.8	30	35