

Worm Gear Driven Flanged Butterfly Valve

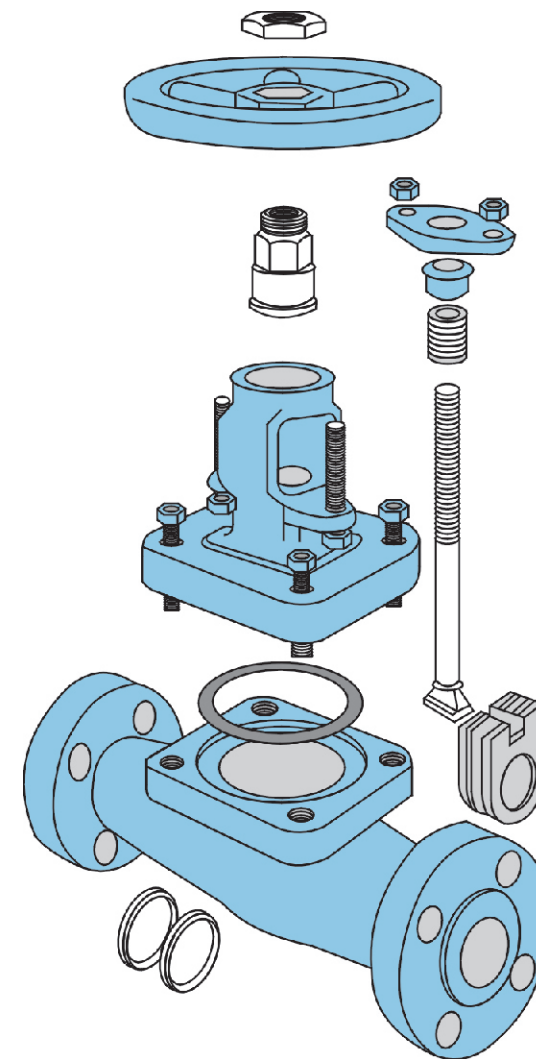
Electric Flanged Butterfly Valve

Hydraulic Flanged Butterfly Valve

CLASS 600 Main size of Flange Butterfly Valve outside & weight

NPS	L	Worm gear					Electric driving					Air driving and hydraulic driving			weight(kg)
		H1	Ho1	E1	F1	W1	H2	Ho2	E2	F2	H3	Ho3	A3	Worm gear	
3"	180	541	414	63	140	250	606	295	180	178	-	-	-	82	
4"	190	607	447	63	140	250	650	358	180	178	-	-	-	125	
5"	200	680	395	108	200	250	695	371	180	178	-	-	-	165	
6"	210	686	490	152	240	315	743	387	180	178	-	-	-	191	
8"	230	757	536	168	300	315	1055	417	370	235	-	-	-	247	
10"	250	867	641	192	320	315	1172	465	370	235	-	-	-	413	
12"	270	1034	727	237	368	400	1392	546	515	245	-	-	-	576	
14"	290	1087	757	237	368	400	1475	579	515	245	-	-	-	664	
16"	310	1216	825	237	368	400	1557	643	540	360	-	-	-	971	
18"	330	1240	840	269	559	400	1625	673	540	360	-	-	-	1119	
20"	350	1330	978	350	645	400	1679	701	540	360	-	-	-	1639	
24"	390	1583	1070	350	645	400	1834	775	540	360	-	-	-	2082	

Forged Steel Gate Valves

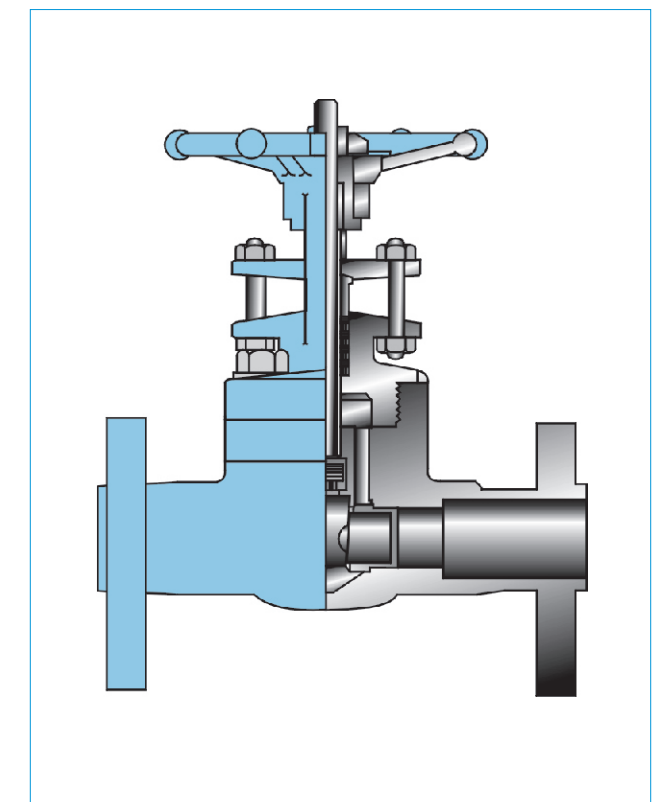


Forged steel gate valves

Our company are available in three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304L/graphite, Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available. The third design is the pressure seal bonnet, with a threaded and pressure seal bonnet joint.

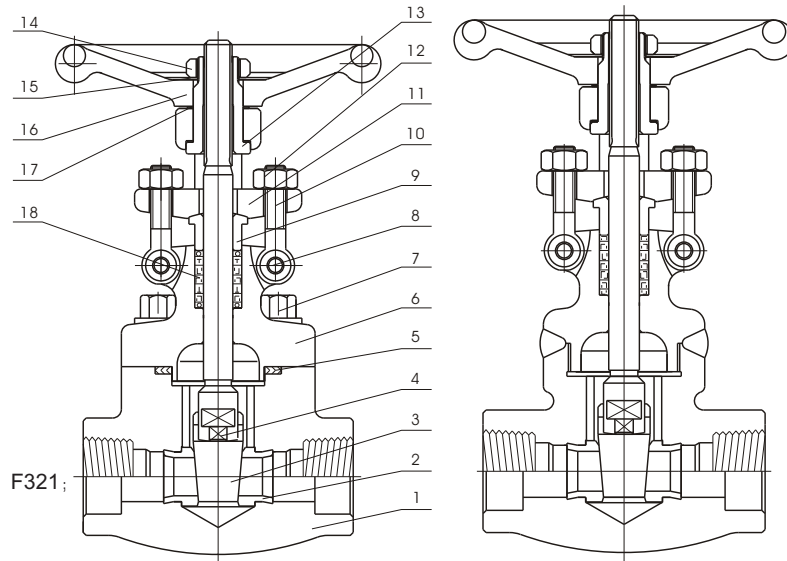
Construction is as follows

- ※ Full port or conventional port;
- ※ Outside screw and yoke (OS & Y);
- ※ Two piece self-aligning packing gland;
- ※ Bolted bonnet & spiral wound gasket seal bonnet;
- ※ 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.

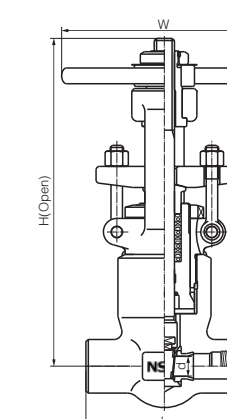
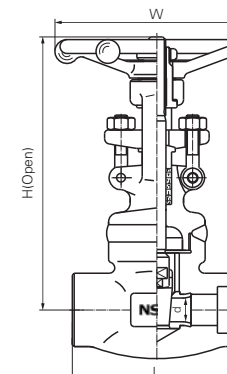
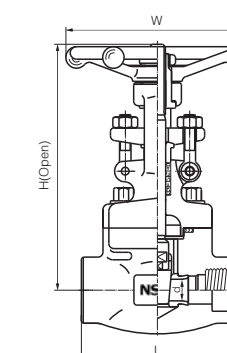
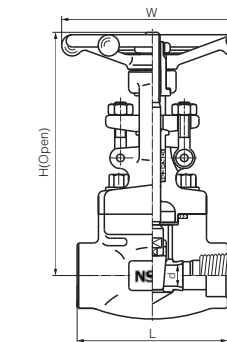


Application standards

- Design and manufacture conform to API 602、BS5352、ANSI B16.34;
- Connection ends conform to:
 - Socket welded dimension conform to ANSI B16.11
 - Screw ends dimension conform to ANSI B1.20.1
 - Butt-welded conform to ANSI B16.25
 - Flanged ends conform to ANSI B16.5
- Test and inspection conform to: API 598
- Structure features: Bolted bonnet, outside screw and yoke; Welded bonnet, outside screw and yoke.
- Materials conform to ANIS/ASTM.
- Main materials: A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; Alloy Steel.



Main part materials list								
NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Seat	410	410HF	304	410HF	304(L)	316(L)	F51
3	Wedge	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
4	Stem	410	410	304	410	304(L)	316(L)	F51
5	Gasket	304+graphite	304+graphite	304+graphite	304+graphite	304+graphite	316+graphite	316+graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	410	410	410	410	410	410	410
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
17	Lubricating gasket	410	410	410	410	410	410	410
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite



CL800

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

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

CL900-CL1500

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

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

CL1500-CL2500

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

Specification(NPS)	F.P	Pressure pound level	1/2	3/4	1	1 1/2	2
Face to face	L	CL1500	110	150	150	210	235
Handwheel diameter	W	CL1500	110	130	130	180	250
Height	H	CL1500	277	300	390	400	435
Flow port dimension	d	CL1500	14	17	22	35	37
Weight(Kg)		CL1500	5.1	11	12.1	22	37

CL1500-CL2500

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

Specification	F.P	Pressure pound level	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	L	CL2500	186	186	186	232	232	279
Handwheel diameter	W	CL2500	200	200	200	280	280	300
Height	H	CL2500	325	325	327	467	468	540
Flow port dimension	d	CL2500	14	14	19	25	30	36.5
Weight(Kg)		CL2500	12.3	11.6	10.8	26.0	28.4	60.0

API SERIES

DIN SERIES

JIS SERIES

API SERIES

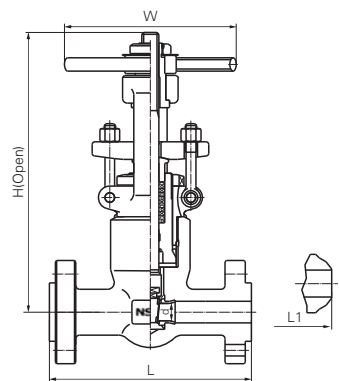
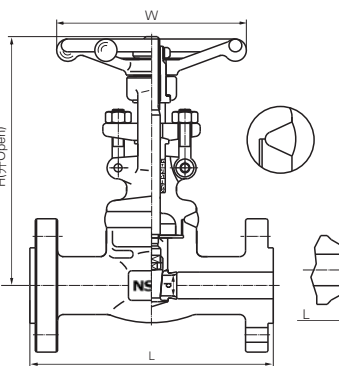
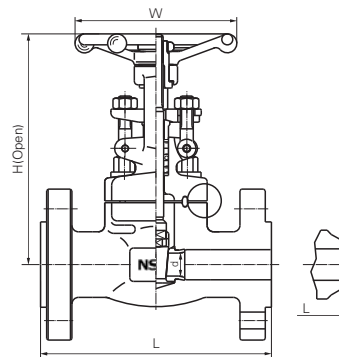
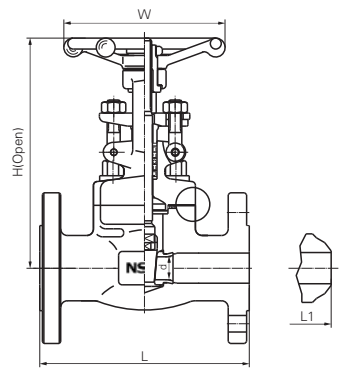
DIN SERIES

JIS SERIES

API SERIES

DIN SERIES

JIS SERIES



CL150-300-600

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

Specification			1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Face to face (mm)	CL150	L(RF)	108	117	127	140	165	178	190
	CL300	L1(BW)	140	152	165	178	190	216	241
	CL600		165	190	216	229	241	292	330
Handwheel diameter	W		100	100	125	160	160	180	200
Height	CL150	H	176	184	217	226	250	290	357
	CL300,CL600		161	163	196	226	250	290	357
Flow port dimension	d		10	13.5	18	24	29	36.5	45
Weight (Kg)	CL150	RF	3.4	3.98	6.12	7.2	10.4	15.5	24.5
		BW	2.8	3.3	5.4	7.1	8.2	12.5	20
	CL300	RF	3.77	4.89	7.23	9.6	12.65	18	26.2
		BW	3.5	4.4	6.8	8.1	9.2	15.4	22
	CL600	RF	4.2	5.8	8.8	12.1	15.6	19.5	32
		BW	4.5	5.1	8.2	10.5	12.4	20.1	28

CL900-CL1500

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

Specification			1/2	3/4	1	1 1/4	1 1/2	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	W		125	125	160	180	200	220
Height	H		191	192	219	257	296	316
Flow port dimension	d		13.5	18	24	29	36.5	45
Weight (Kg)			7.2	11.5	15.6	16.2	22.6	28.2

CL2500

Welded bonnet, red., outside screw and yoke(OS & Y)
Flange-welded or butt-welded ends; design to API602;BS5352

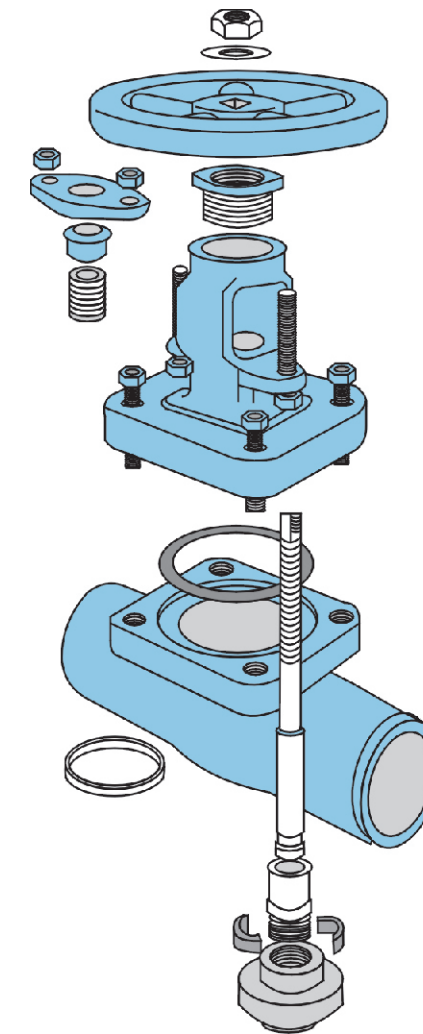
Specification			1/2	3/4	1	1 1/2	2
Face to face (mm)	L(RF) L1(BW)		264	273	308	384	451
	L(RTJ)		264	273	308	387	454
Handwheel diameter	W		125	160	160	200	240
Height	H		207	240	258	355	370
Flow port dimension	d		13.5	13.5	19	30	36.5
Weight (Kg)			19.5	21.5	42	65	95

CL2500

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

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

Forged Steel Globe Valves

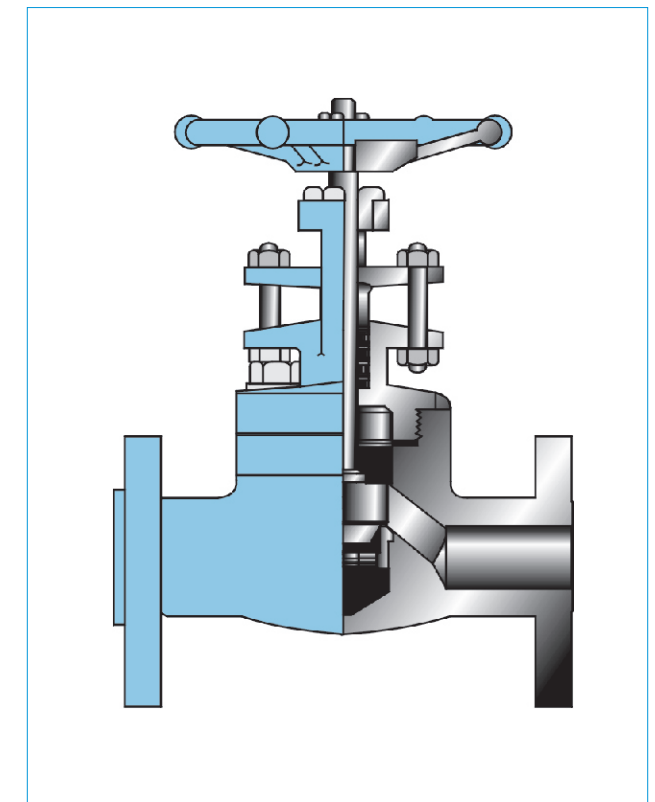


Forged steel globe valves

Our company are available in three bonnet designs. The first design is the Bolted Bonnet, with male-Female joint, spiral wound gasket, made in F304L/graphite, Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available. The third design is the pressure seal bonnet, with a threaded and pressure seal bonnet joint.

Construction is as follows

- ※ Full port or conventional port;
- ※ Outside screw and yoke (OS&Y);
- ※ Two piece self-aligning packing gland;
- ※ Bolted bonnet with spiral-wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet;
- ※ Integral backseat;
- ※ Socket weld ends to ASME B16.11;
- ※ Screwed ends(NPT) to ANSI/ASME B1.20.1;
- ※ Disc can change for throttle type, needle type, ball type and check type.



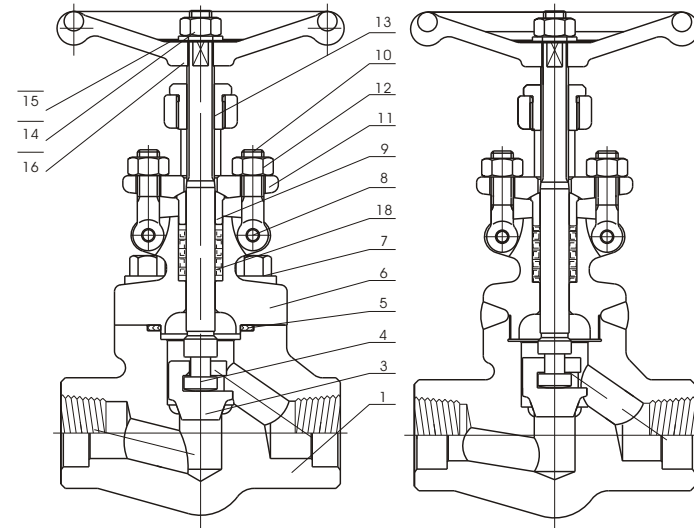
API SERIES

DIN SERIES

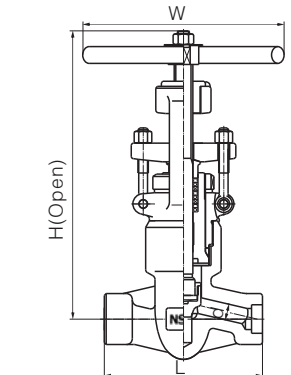
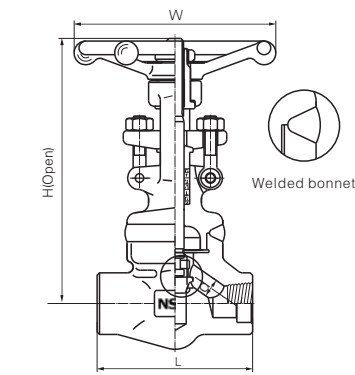
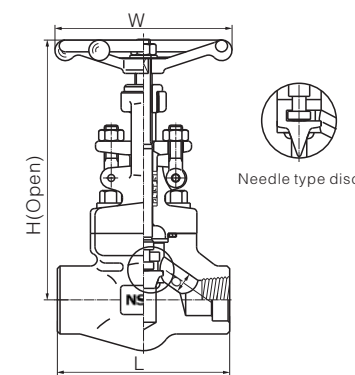
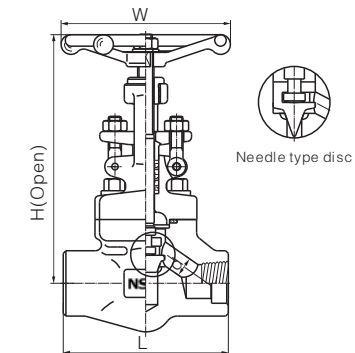
JIS SERIES

Application standards

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



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+ graphite	304+ graphite	304+ graphite	304+ graphite	304+ graphite	316+ graphite	316+ graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
8	Pin	410	410	410	410	304	304	304
9	Gland	410	410	304	410	304	316	F51
10	Gland eyebolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
11	Gland flange	A105	A105	LF2	F11	F304	F304	F304
12	Hex nut	2H	2H	2H	2H	8(M)	8(M)	8M
13	Stem nut	410	410	410	410	410	410	410
14	Locking nut	35	35	35	35	35	35	35
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
16	Handwheel	A197	A197	A197	A197	A197	A197	A197
18	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite



CL800

Bolted bonnet, full port or red. port outside screw and yoke(OS & Y) THD., SW or BW ends, design standard: BS5352

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

CL900-CL1500

Bolted bonnet, red. port or full port outside screw and yoke(OS&Y) THD., BW or SW ends, design standard: BS5352

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

CL2500

Welded bonnet (RJ), red. port, outside screw and yoke(OS & Y) SW ends, design standard: ASME B16.34

Specification	F.P	1/2	3/4	1	1 1/2	2
Face to face	L	150	150	210	235	235
Handwheel diameter	W	130	130	250	300	300
Height	H	293	300	390	435	435
Flow port dimension	d	11	14	19	28	35
Weight(Kg)		10	10.3	22.4	38	38

CL2500

Pressure seal bonnet, red. port, outside screw and yoke(OS & Y) SW ends, design standard: ASME B16.34

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

API SERIES

DIN SERIES

JIS SERIES

API SERIES

DIN SERIES

JIS SERIES

API SERIES

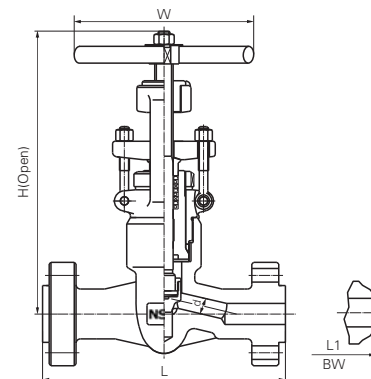
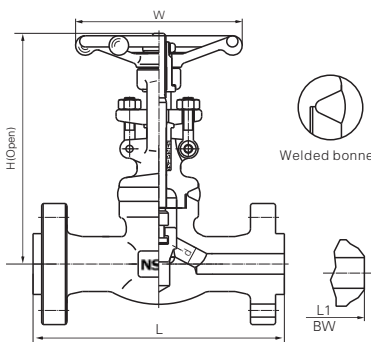
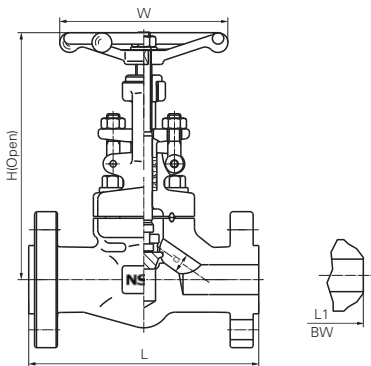
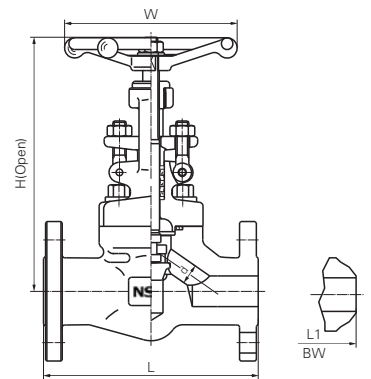
DIN SERIES

JIS SERIES

API SERIES

DIN SERIES

JIS SERIES



CL150-300-600

Bolted bonnet, reducing port, outside screw and yoke(OS & Y)
Flanged or BW ends, design standard: BS5352

Specification		R.P	1/2	3/4	1	1 1/4	1 1/2	2
Face to face	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
Handwheel diameter		W	100	100	125	160	160	180
Height	CL150/CL300	H	180	184	217	224	260	300
	CL600		164	164	203	224	260	300
Flow port dimension(mm)		d	9	13	17.5	23	30	35
Weight (Kg)	CL150	R F	3.45	4.00	6.19	9.6	10.5	17
		BW	2.3	3.6	7.8	8.2	12.0	15.0
	CL300	R F	3.8	5.1	7.2	12	13.5	19.7
		BW	2.8	4.0	8.5	9.2	12.6	16.8
	CL600	R F	5.6	7.8	12.5	17	23.5	38.8
		BW	3.4	4.7	9.2	10.5	13.3	18.9

CL900-CL1500

Bolted bonnet, reducing port, outside screw and yoke(OS & Y)
Flanged or BW ends, design standard: BS5352

Specification		F.P	1/2	3/4	1	1 1/4	1 1/2	2
Face to face (mm)	L(RF),L1(BW)	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
Height(mm)		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

CL2500

Welded bonnet, reducing port, outside screw and yoke(OS & Y)
Flanged or BW ends, design standard: ASME B16.34

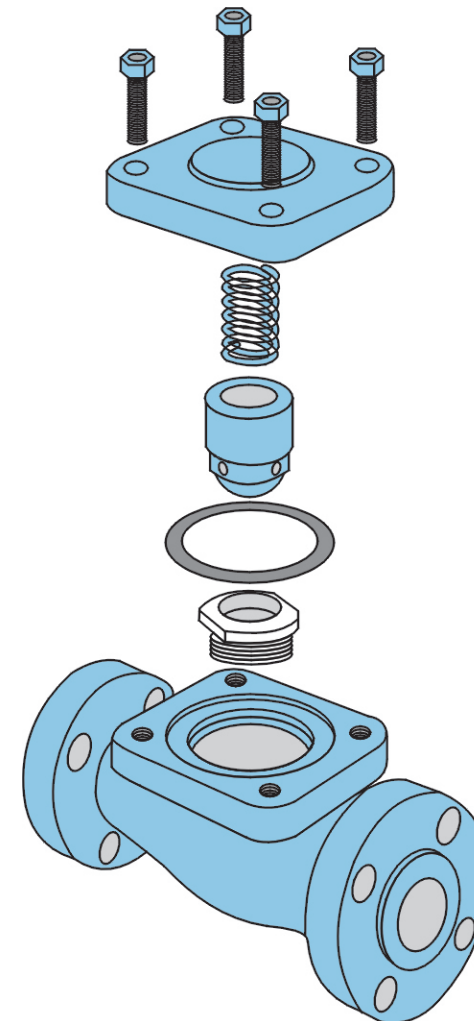
Specification		F.P	1/2	3/4	1	1 1/2	2
Face to face (mm)	L(RF),L1(BW)	L(RF),L1(BW)	264	273	308	384	451
		L(RTJ)	264	273	308	387	454
Handwheel diameter(mm)		W	125	160	200	250	240
Height(mm)		H	207	240	258	355	300
Flow port dimension(mm)		d	11	14	19	28	35
Weight (Kg)			19.5	21.5	42	65	95

CL2500

Pressure seal bonnet, reducing port, outside screw and yoke(OS & Y)
Flanged or BW ends, design standard: ASME B16.34

Specification		F.P	1/2	3/4	1	1 1/4	1 1/2	2
Face to face (mm)	L(RF),L1(BW)	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
Height(mm)		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

Forged Steel Check Valves

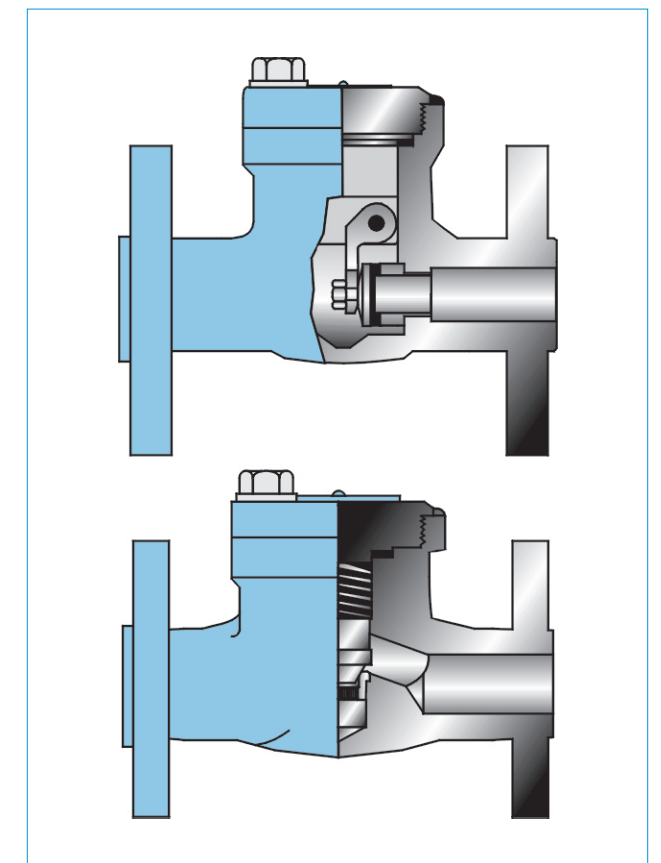


Forged steel check valves

Our company 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.

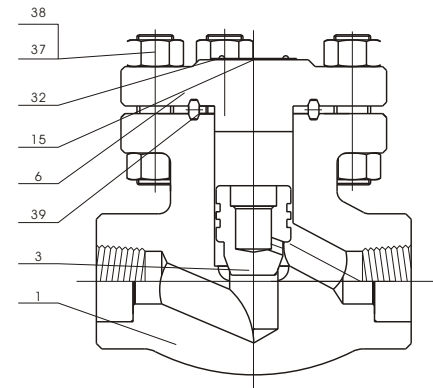
Construction is as follows

- ※ Full port or conventional port;
- ※ Lift type check valves;
- ※ Ball type check valves;
- ※ Swing type check valves;
- ※ Acceding to requirement equip inside spring;
- ※ Bolted bonnet with spiral-wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet;
- ※ Socket weld ends to ASME B16.11;
- ※ Screwed ends (NPT) to ANSI/ASME B1.20.1;
- ※ Disc can change for soft seal disc and ball disc.



Application standards

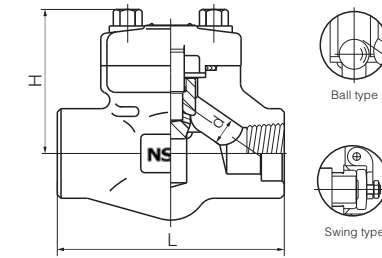
- Design and manufacture conform to BS5352 MSS SP-118;
- Connection ends conform to:
 - Scket welded ends conform to ANSI B16.11
 - Screw ends conform to ANSI B1.20.1
 - Butt-welded ends conform to ANSI B16.25
 - Flanged ends conform to ANSI B16.5
- Test and inspection conform to: API 598
- Structure features: Bolted bonnet
- Materials conform to ANSI/ASTM.
- Main materials: A105; LF2; F5; F11; F22; 304(L); 316(L); F347; F321; F51; Monel; Alloy Steel.



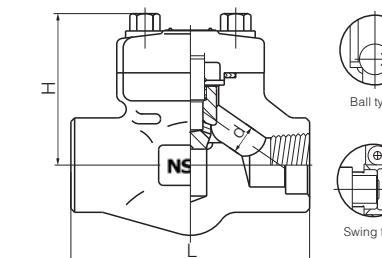
Please mark in you offer if you need loadspring



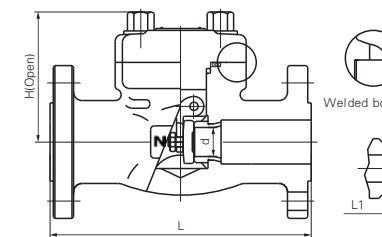
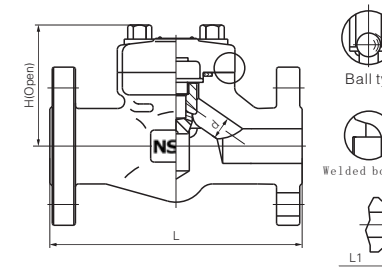
Main part materials list								
NO.	Part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	LF2	F11	F304(L)	F316(L)	F51
2	Seat ring	410	410HF	304	410HF	304(L)	316(L)	F51
3	Disc	F6a	F6a	F304	F6aHF	F304(L)	F316(L)	F51
5	Gasket	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	316+Graphite	316+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



Spring-load acc. to client's requirement



Spring-load acc. to client's requirement



CL800

BB, Full Bore or Red. Bore, THD or BW or SW ends, Design Standard: BS5352

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

CL900-CL1500

BB, Full Bore or Red. Bore, THD or BW or SW ends, Design Standard: BS5352

Specification	R.P		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	F.P	-	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
Flow port dimension	d	Lift	7	12	15	20	28	32	40
		Swing	8	10.5	13.5	18	24	29	45
Weight(Kg)		Lift	1.5	3.4	3.3	4.2	6.3	10.5	12.5
		Swing	1.5	3.4	3.3	4.2	5.0	8.5	10.9

CL150-300-600

BB, Red. Bore, Flanged or BW ends, Design Standard: BS5352

Specification	R.P		1/2	3/4	1	1 1/4	1 1/2	2
	F.P	-	3/8	1/2	3/4	1	1 1/4	1 1/2
Face to face	L(RF) L1(BW)	CL150	108	118	127	140	165	203
		CL300	153	178	203	216	229	267
		CL600	165	191	216	229	241	292
Height	H	CL150	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	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

BB, Red. Bore, Flanged or BW ends, Design Standard: BS5352

Specification	R.P		1/2	3/4	1	1 1/4	1 1/2	2
	F.P	-	3/8	1/2	3/4	1	1 1/4	1 1/2
Face to face	L(RF) L1(BW)	CL150	108	118	127	140	165	203
		CL300	153	178	203	216	229	267
		CL600	165	191	216	229	241	292
Height	H	CL150	77	81	93	95	103	118
		CL300/600	61	78	84	101	120	133
Flow 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