

CHECK VALVE



**TIANJIN FREYA AUTOMATION
TECHNOLOGY CO., LTD.**

Tell: 022-27901003

Mail: tjfreya@tj-bnd.com

Web: www.tj-bnd.com

Add: Industrial Park, Zhongbei Town, Xiqing District, Tianjin

**TIANJIN FREYA AUTOMATION
TECHNOLOGY CO., LTD.**

Company profile-----1/1

Qualifications-----2/2

Check valve-----3/3

GB lift check valve-----4/6

GB swing check valve-----7/9

ANSI check valve-----10/12

Power station check valve-----13/14

Forged steel check valve-----15/15

Y type check valve-----16/16

Fluorine lined lift check valve-----17/18

Fluorine lined swing check valve-----19/19

Fluorine lined single disc swing check valve-----20/20

HQ41X slide ball check valve-----21/21

HH46/48/49 micro-resistance slow closing butterfly check valve-----22/22

HH44X micro-resistance slow closing check valve-----23/23

Precautions for storage, installation and use-----24/24

CHECK VALVE

Founded in 2014, Freya specializes in fluid control products and services such as valves, actuators, electric valve actuators, and electric valves. It focuses on the process industry and has long been committed to providing services to process industries such as power, steel, building materials, and water treatment to provide professional fluid control solutions. Based on the actual working conditions, through necessary on-site surveying and technical explanations, we provide customers with safe, economical and environmental-ly friendly selection and design, supply in strict accordance with contract requirements and guide installation and debugging, and hand over for use if standards are met. Thanks to the trust of the vast number of users, through long-term and large-scale on-site services, and the effective accumulation of technical experience, the company has an accurate understanding of the real needs and pain points of users and the market, as well as expectations for equipment manufacturers.

The company based on its own patent R & D and production of intelligent electric actuators, reliable, durable, easy to use, cost-effective and guaranteed service. Being close to users, providing full-process services, cover-all services, repair and maintenance value-added services, and escorting users' production are our differentiating advantages. Freya intelligent electric actuator and electric valve actuator provide a two-year warranty and lifetime free after-sales service after installation and commissioning. Technical quality and commercial credit are the two foundations on which the company relies to survive and drive the develop-ment of the company. Users feel reassured, worry-free and happy, which are the only criteria to evaluate the effectiveness of our work and demonstrate the value of our existence.



CHECK VALVE

Main features

- Middle flange bolt connection
- Swing or lift type disc
- For horizontal vertical lines
- Standard flange ends

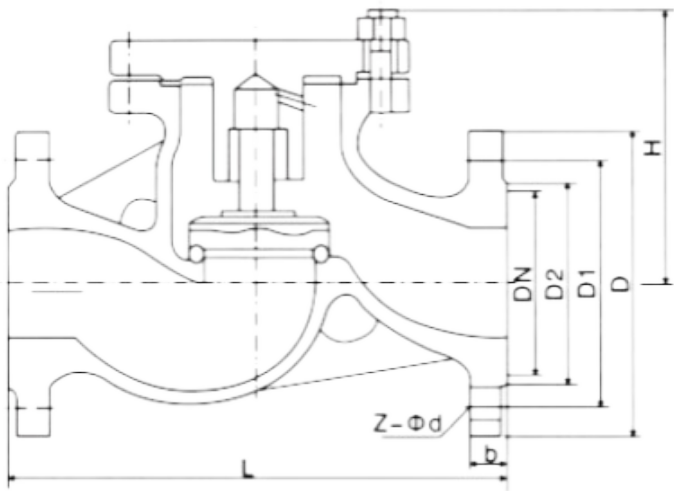
Product specification

	Design	Face to Face	Flange Ends	Test & Check	Pressure-Temp.	Marking	Supply
Product specification	GB/T 12235 GB/T 12236	GB/T 12221	JB/T 79	JB/T 26480	GB/T 12224	GB/T 12220	JB/T 7928

Main parts material

Parts name	Parts material			
Body/Bonnet	WCB	WC6	LCB	CF8M
Disc	WCB	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti
Stem	20Cr13	25Cr2MoV	1Cr18Ni9Ti	1Cr18Ni9Ti
Gasket	18-8 Flexible Graphite			
Bolt	35/35CrMo	25Cr2MoV	1Cr18Ni9Ti	1Cr18Ni9Ti
Temperature	-29~425℃	-29~550℃	-40~350℃	-40~550℃
Media	Water, oil, steam	Oil, steam	Nitric acid	Acetic acid

GB LIFT CHECK VALVE



1.6MPa

Model	DN mm	L	D	D1	D2	b	Z-φd	H	Weight Kg
H41H-16C H41Y-16C	15	130	95	65	45	14	4-14	77	3
	20	150	105	75	55	14	4-14	77	4
	25	160	115	85	65	14	4-14	80	5
	32	180	135	100	78	16	4-18	85	7
	40	200	145	110	85	16	4-18	95	9
H41H-16P H41Y-16P	50	230	160	125	100	16	4-18	105	10
	65	290	180	145	120	18	8-18	120	20
H41H-16R H41Y-16R	80	310	195	160	135	20	8-18	130	30
	100	350	215	180	155	20	8-18	140	39
	125	400	245	210	185	22	8-18	155	50
	150	480	280	240	210	24	8-23	180	70
	200	600	335	295	265	26	12-23	215	161
	250	730	405	355	320	30	12-25	260	251
	300	850	460	410	375	34	12-25	315	395

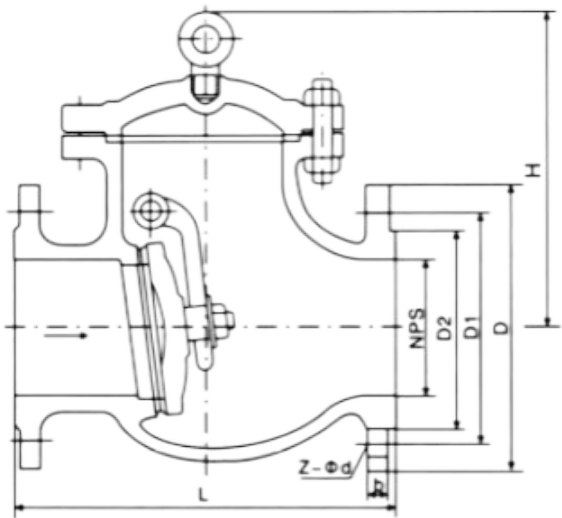
GB LIFT CHECK VALVE

2.5MPa									
Model	DN mm	L	D	D1	D2	b	Z-φd	H	Weight Kg
H41H-25C H41Y-16C H41H-25P H41Y-25P H41H-25R H41Y-25R	15	130	95	65	45	16	4-14	100	3.4
	20	150	105	75	55	16	4-14	105	5
	25	160	115	85	65	16	4-14	120	5.7
	32	180	135	100	78	18	4-18	130	9.1
	40	200	145	110	85	18	4-18	135	11.8
	50	230	160	125	100	20	4-18	149	14.4
	65	290	180	145	120	22	8-18	160	23
	80	310	195	160	135	22	8-18	169	30
	100	350	215	190	160	24	8-23	194	44
	125	400	245	220	180	28	8-25	222	65
	150	480	280	250	218	30	8-25	255	99
	200	600	335	310	278	34	12-25	305	190
	250	730	405	370	332	36	12-30	355	315
	300	850	460	430	390	40	16-30	410	450

4.0MPa									
Model	DN mm	L	D	D1	D2	b	Z-φd	H	Weight Kg
H41H-40C H41Y-40C H41H-40P H41Y-40P H41H-40R H41Y-40R	15	130	95	65	45	16	4-14	100	4
	20	150	105	75	55	16	4-14	105	5.5
	25	160	115	85	65	16	4-14	120	6
	32	180	135	100	78	18	4-18	130	12
	40	200	145	110	85	18	4-18	135	14
	50	230	160	125	100	20	4-18	149	18
	65	290	180	145	120	22	8-18	160	27
	80	310	195	160	135	22	8-18	169	6
	100	350	230	190	160	24	8-23	194	50
	125	400	270	220	188	28	8-25	225	75
	150	480	300	250	218	30	8-25	255	119
	200	600	375	320	282	38	12-30	305	217
	250	730	445	385	345	42	12-34	360	365
	300	850	510	450	408	46	12-34	415	410

GB LIFT CHECK VALVE

6.4MPa										
Model	DN mm	L	D	D1	D2	D6	b	Z-φd	H	Weight Kg
H41H-64C H41Y-64C H41H-64P H41Y-64P H41H-64R H41Y-64R	15	210	105	75	55	41	18	4-14	100	7
	20	230	125	90	68	51	20	4-18	110	11
	25	230	135	100	78	58	22	4-18	125	13
	32	260	150	110	82	66	24	4-23	140	14
	40	260	165	125	95	76	24	4-23	160	20
	50	300	175	135	105	88	26	4-23	170	23
	65	340	200	160	130	110	28	8-23	188	37
	80	380	210	170	140	121	30	8-23	205	46
	100	430	250	200	168	150	32	8-25	230	68
	125	500	295	240	202	176	36	8-30	230	89
	150	550	340	280	240	204	38	8-34	265	131
	200	650	405	345	300	260	44	12-34	310	235



1.6MPa

Model	DN mm	L	D	D1	D2	b	Z-φd	H	Weight Kg
H44H-16C H44Y-16C H44H-16P H44Y-16P H44H-16R H44Y-16R	50	230	160	125	100	16	4-18	135	21
	65	290	180	145	120	18	4-18	142	28
	80	310	195	160	135	20	8-18	165	38
	100	350	215	180	155	20	8-18	180	58
	125	400	245	210	185	22	8-18	210	92
	150	480	280	240	210	24	8-23	233	130
	200	500	335	290	265	26	12-23	304	210
	250	550	405	355	320	30	16-25	348	294
	300	650	460	410	375	30	16-25	390	367
	350	750	520	470	435	34	16-25	430	410
	400	850	580	525	485	36	16-30	468	461
	450	950	640	585	545	40	20-30	523	570
	500	1025	705	650	608	44	20-34	525	850

2.5MPa

Model	DN mm	L	D	D1	D2	b	Z-φd	H	Weight Kg
H44H-25C H44Y-25C H44H-25P H44Y-25P H44H-25R H44Y-25R	50	230	160	125	100	20	4-18	160	22
	65	290	180	145	120	22	8-18	175	29
	80	310	195	160	135	22	8-18	185	38
	100	350	230	190	160	24	8-23	220	61
	125	400	270	220	188	28	8-25	248	96
	150	480	300	250	218	30	8-25	276	132
	200	550	360	310	278	34	12-25	350	213
	250	650	425	370	332	36	12-30	410	297
	300	750	485	430	390	40	16-30	430	372
	350	850	550	490	448	44	16-34	518	415
	400	950	610	550	505	48	16-34	560	480
	450	1025	660	600	555	50	20-34	582	610
	500	1150	730	660	610	52	20-41	618	920

4.0MPa

Model	DN mm	L	D	D1	D2	D6	b	f	f2	Z-φd	H	Weight Kg
H44H-40C H44Y-40C H44H-40P H44Y-40P H44H-40R H44Y-40R	50	230	160	125	100	88	20	3	4	4-18	169	22
	65	290	180	145	120	110	22	3	4	8-18	173	29
	80	310	195	160	135	121	22	3	4	8-18	185	38
	100	350	230	190	160	150	24	3	4.5	8-23	220	61
	125	400	270	220	188	176	28	3	4.5	8-25	248	96
	150	480	300	250	218	204	30	3	4.5	8-25	270	132
	200	550	375	320	282	260	38	3	4.5	12-30	342	213
	250	650	445	385	345	313	42	3	4.5	12-34	401	297
	300	750	510	450	408	364	46	4	4.5	16-34	423	372
	350	850	570	510	465	422	52	4	5	16-34	455	415
	400	950	655	585	535	474	58	4	5	16-41	510	450

GB SWING CHECK VALVE

6.4MPa												
Model	DN mm	L	D	D1	D2	D6	b	f	f2	Z-φd	H	Weight Kg
H44H-64C H44Y-64C H44H-64P H44Y-64P H44H-64R H44Y-64R	50	300	175	135	105	88	26	3	4	4-23	177	27
	65	340	200	160	130	110	28	3	4	8-23	197	37
	80	380	210	170	140	121	30	3	4	8-23	212	57
	100	430	250	200	168	150	32	3	4.5	8-25	248	89
	125	500	295	240	202	176	36	3	4.5	8-30	296	135
	150	550	340	280	240	204	38	3	4.5	8-34	330	184
	200	650	405	345	300	260	44	3	4.5	12-34	385	266
	250	775	470	400	352	313	48	3	4.5	12-41	445	398
	300	900	530	460	412	364	54	4	4.5	16-41	474	643
	350	1025	598	525	475	422	60	4	5	16-41	514	815
	400	1150	670	585	525	474	66	4	5	16-48	616	1234

ANSI CHECK VALVE

Main features

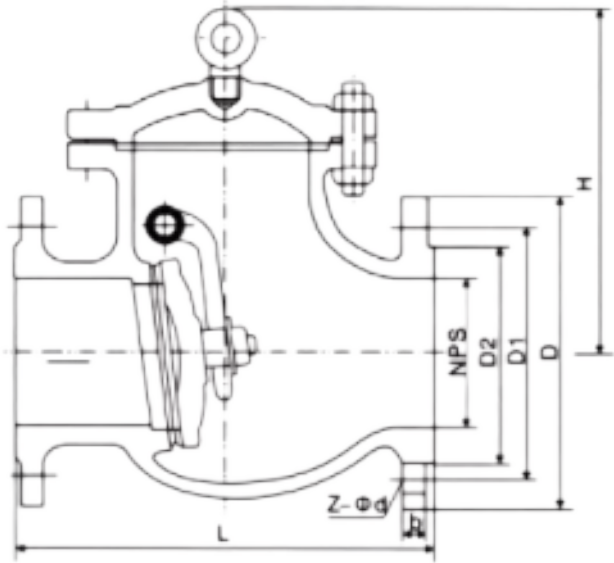
- Middle flange bolt connection
- Swing type disc
- For horizontal vertical lines
- Standard flange ends

Product specification

	Design	Face to Face	Flange Ends	Test & Check	Pressure-Temp.	Marking	Supply
Product specification	BS 1868 API 6D	ASME B16.10 API 6D	ASME B16.5	API 598 API 6D	ASME B16.34	MSS SP-25	API 600 BS 5160

Main parts material

Parts name	Parts material			
Body/Bonnet	A216-WCB	A217-WC6	A352-LCB	A351-CF8M
Disc	WCB	WC6	LCB	CF8M
Stem	20Cr13	S.S	S.S	S.S
Gasket	18-8 Flexible Graphite			
Bolt	A193-B7	A193-B7	A193-B7M	A193-B8
Temperature	-29~425°C	-29~550°C	-46~350°C	-40~200°C
Media	Water, oil, steam	Oil, steam	Nitric acid	Acetic acid



Class150

Model	NPS	DN mm	L	D	D1	D2	b	Z-φd	H	Weight Kg
H44H-150Lb H44H-150LbP H44H-150LbR	2"	50	203	157	120.7	92	19.5	4-19	161	17
	2-1/2"	65	216	178	139.7	105	22.5	4-19	180	23
	3"	80	241	190.5	152.4	127	24	4-19	190	33
	4"	100	292	229	190.5	157.2	24	8-19	220	44
	6"	150	356	279	241.5	216	25.5	8-22.5	257	78
	8"	200	495	343	298.5	270	29	8-22.5	292	137
	10"	250	622	406	362	324	30.5	12-25	350	207
	12"	300	698	483	432	381	32	12-25	398	279
	14"	350	787	533	476.8	413	35	12-29	445	387
	16"	400	864	597	539.8	470	37	16-29	490	446
	18"	450	978	635	577.8	533	40	16-32	520	621
	20"	500	978	698	635	854	43	20-32	546	770
	24"	600	1295	813	749.3	692	48	20-45	880	970

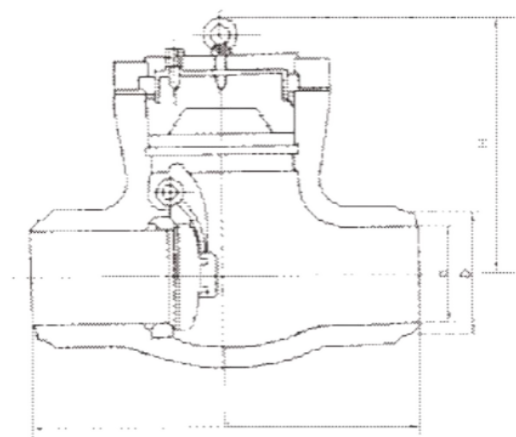
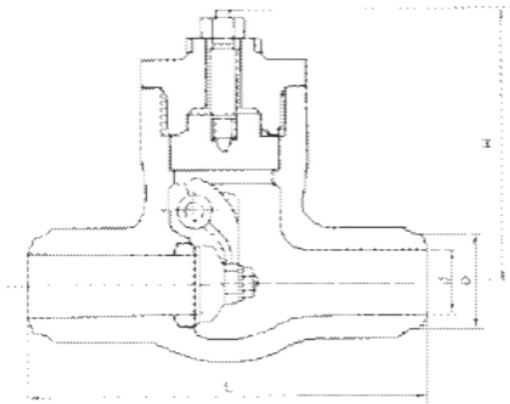
Class300

Model	NPS	DN mm	L	D	D1	D2	b	Z-φd	H	Weight Kg
H44H-300Lb H44H-300LbP H44H-300LbR	2"	50	267	165	127	92	22.5	8-19	179.5	20
	2-1/2"	65	292	190	150	105	25	8-22	190	24
	3"	80	318	210	168	127	29	8-22.5	212.4	40
	4"	100	356	254	200	157	32	8-22.5	246	51
	6"	150	445	317.5	269.7	216	37	12-22.5	292	90
	8"	200	533	381	330	270	41.5	12-25.5	328	175
	10"	250	622	444.5	387	324	48	16-28.5	378.6	210
	12"	300	711	521	451	381	51	16-32	450	286
	14"	350	838	584	514	413	54	20-32	470	400
	16"	400	864	648	572	477	57	20-35	530	550
	18"	450	978	711	629	533	60	24-35	584	700
	20"	500	1016	775	686	584	64	24-35	610	860
	24"	600	1346	914	813	692	70	24-41	860	1931

Class600

Model	NPS	DN mm	L	D	D1	D2	b	Z-φd	H	Weight Kg
H44H-600Lb H44H-600LbP H44H-600LbR	2"	50	292	165	127	92	25	8-19	203	34
	2-1/2"	65	330	190	150	105	29	8-22	229	45
	3"	80	356	210	168	127	32	8-22	235	63
	4"	100	432	273	216	157	38	8-25	286	114
	6"	150	559	356	292	216	48	8-29	330	207
	8"	200	660	419	349	270	56	12-29	381	387
	10"	250	787	508	432	324	64	12-32	457	580
	12"	300	838	559	489	381	67	16-35	584	778
	14"	350	889	603	527	413	70	20-38	635	869
	16"	400	991	686	603	470	76	20-41	684	1380

POWER STATION CHECK VALVE



1500lb

inch	DN mm	L	d	H
2-1/2"	65	254	56	250
3"	80	305	64	300
4"	100	406	84	350
5"	125	483	100	400
6"	150	559	126	425
8"	200	711	158	490
10"	250	864	200	540
12"	300	991	250	650
14"	350	1067	280	710

2000lb

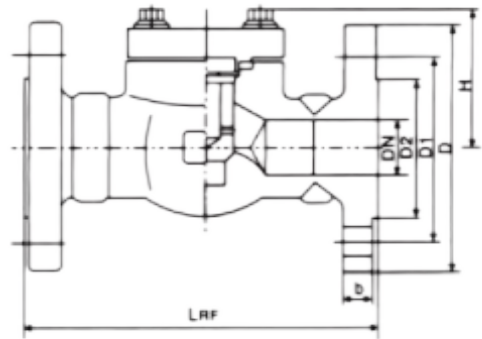
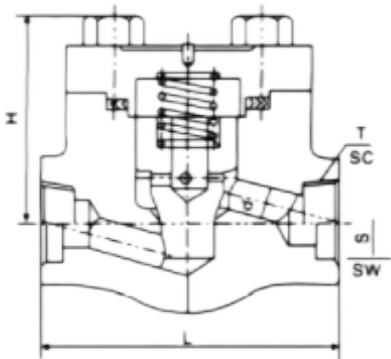
inch	DN mm	L	d	H
2-1/2"	65	330	50	240
3"	80	368	60	305
4"	100	457	80	315
5"	125	533	88	380
6"	150	610	118	425
8"	200	762	148	480
10"	250	914	180	570
12"	300	1041	222	570
14"	350	1118	254	680

POWER STATION CHECK VALVE

2500lb

inch	DN mm	L	d	H
3"	80	368	56	270
4"	100	457	75	385
5"	125	533	86	410
6"	150	610	104	455
8"	200	762	136	555
10"	250	914	162	615
12"	300	1041	210	715
14"	350	1118	234	790

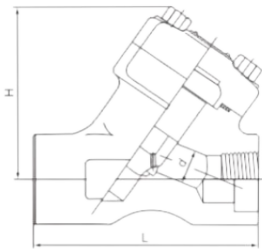
FORGED STEEL CHECK VALVE



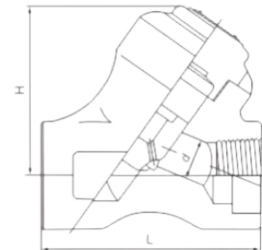
1.6/2.5/4.0/6.4/10.0MPa

Model	DN mm	L	d	S	L1	T	L2	H	Weight Kg	
									FLD.	SC/SW
H61H-16 H61H-25 H61H-40 H61H-64 H61H-100	15	90	13	22.5	10	92	1/2	61	3	1.5
	20	100	18	28.5	11	92	3/4	78	4	3
H41H-16 H41H-25 H41H-40 H41H-64 H41H-100	25	120	23	34.5	12	92	1	84	5.8	3.9
	32	140	28	43	14	92	1-1/4	103	8.5	5.6
H11H-16 H11H-25 H11H-40 H11H-64 H11H-100	40	170	36	49	15	92	1-1/2	118	10.1	8.9
	50	200	45	61	16	92	2	132	15.6	15.6

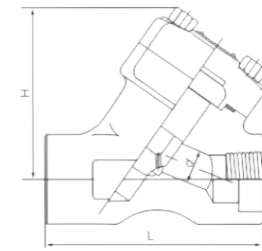
Y TYPE CHECK VALVE



CL800										
Bolted bonnet, reduced and full bore. End connections are threaded or socket weld or butt weld, designed to BS5352										
Size(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(mm)	L	98	98	110	120	140	140	170	200	
Center height (open) (mm)	H	70	70	70	100	110	120	200	150	
Runner hole diameter(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	



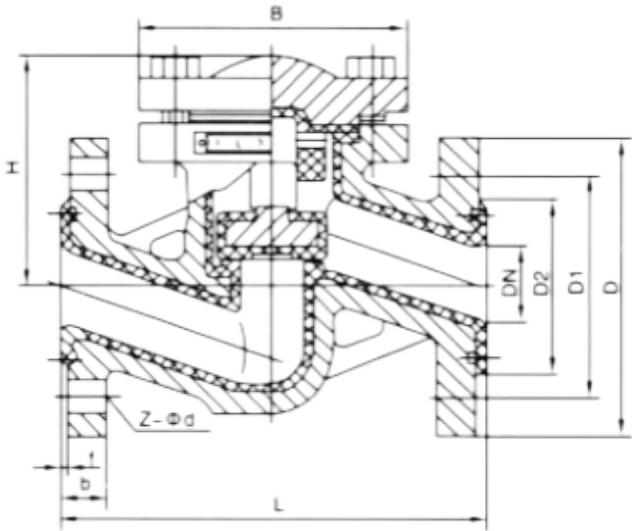
CL800										
Bolted bonnet, reduced and full bore. End connections are threaded or socket weld, designed to BS5352										
Size(NPS)	R.P	-	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2
Face to face(mm)	L	98	98	110	120	140	140	170	200	
Center height (open) (mm)	H	65	65	65	95	105	110	110	140	
Runner hole diameter(mm)	d	7	10	13	17.5	23	30	35	46	
Weight(Kg)		1.8	1.8	2	3.5	8.9	8	12	16	



CL2500								
Bolted bonnet, full bore. End connections are threaded or socket weld, designed to BS5352								
Size(NPS)	F.P	3/8	1/2	3/4	1	1-1/4	1-1/2	2
Face to face(mm)	L	140	140	140	140	178	178	216
Center height (open) (mm)	H	70	70	100	110	110	120	150
Runner hole diameter(mm)	d	9	12	15	20	28	32	40
Weight(Kg)		2.1	4.2	8.9	9	10	18.6	20



CL900-1500								
Welded bonnet, reduced and full bore. End connections are threaded or socket weld, designed to BS5352								
Size(NPS)	F.P	3/8	1/2	3/4	1	1-1/4	1-1/2	2
Face to face(mm)	L	140	140	140	140	178	178	216
Center height (open) (mm)	H	65	65	65	105	110	110	140
Runner hole diameter(mm)	d	9	12	15	20	32	28	40
Weight(Kg)		2	3.5	3.5	8	12	12	18



Standard

Design and manufacturing: GB12235

Face to face: GB12221

Flange ends: GB4216

Materials

Valve body: cast steel, cast iron, stainless steel

Lining: rubber, fluoroplastic

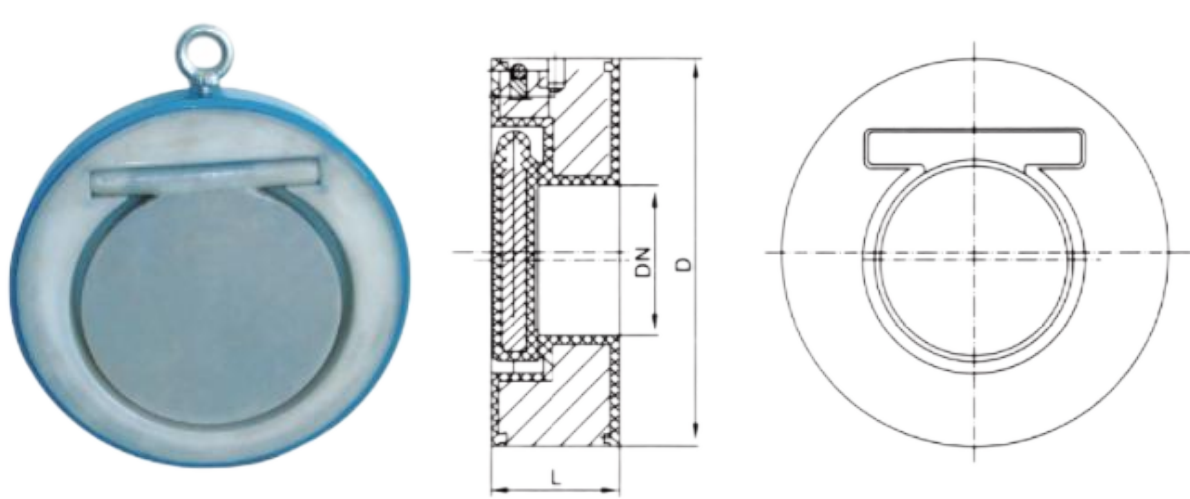
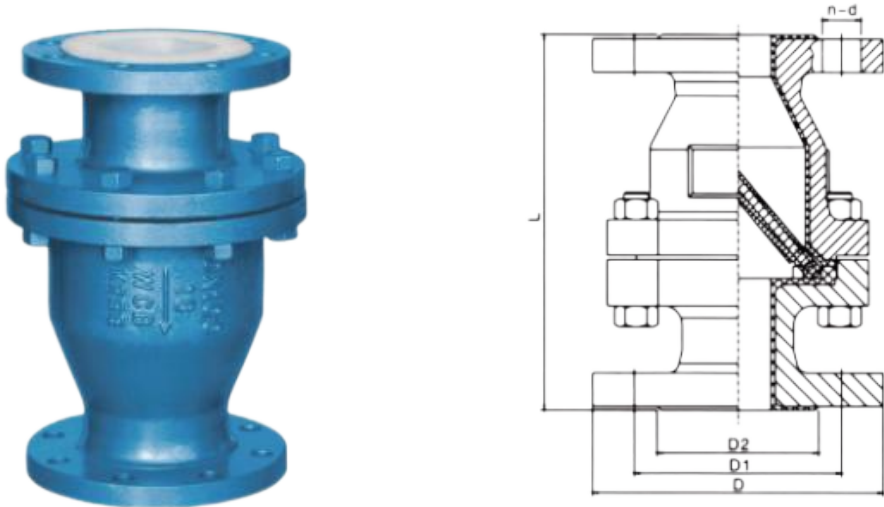
Valve bonnet: cast steel, cast iron, stainless steel

Valve disc: carbon steel completely covered with rubber

NPS in	DN mm	L	D	D1	D2	f	b	Z-φd	D0	H	Weight Kg
1/2"	15	130	80	55	40	2	12	4-12	105	55	4
3/4"	20	150	90	65	50	2	14	4-12	115	58	5
1"	25	160	100	75	60	2	14	4-12	128	60	6
1-1/4"	32	180	120	90	70	2	16	4-14	145	75	7
1-1/2"	40	200	130	100	80	3	16	4-14	160	82	8
2"	50	230	140	110	90	3	16	4-14	178	95	10
2-1/2"	65	290	160	130	110	3	16	4-14	205	105	20
3"	80	310	185	150	125	3	18	4-18	230	120	25
4"	100	350	205	170	145	3	18	4-18	255	135	30
5"	125	400	235	200	175	3	20	8-18	305	158	50
6"	150	480	260	225	200	3	20	8-18	345	180	65
8"	200	495	315	280	255	3	22	8-18	415	215	137
10"	250	622	370	335	310	3	24	12-18	490	240	150
12"	300	698	435	395	362	4	24	12-23	540	265	185
14"	350	787	485	445	412	4	26	12-23	585	300	215

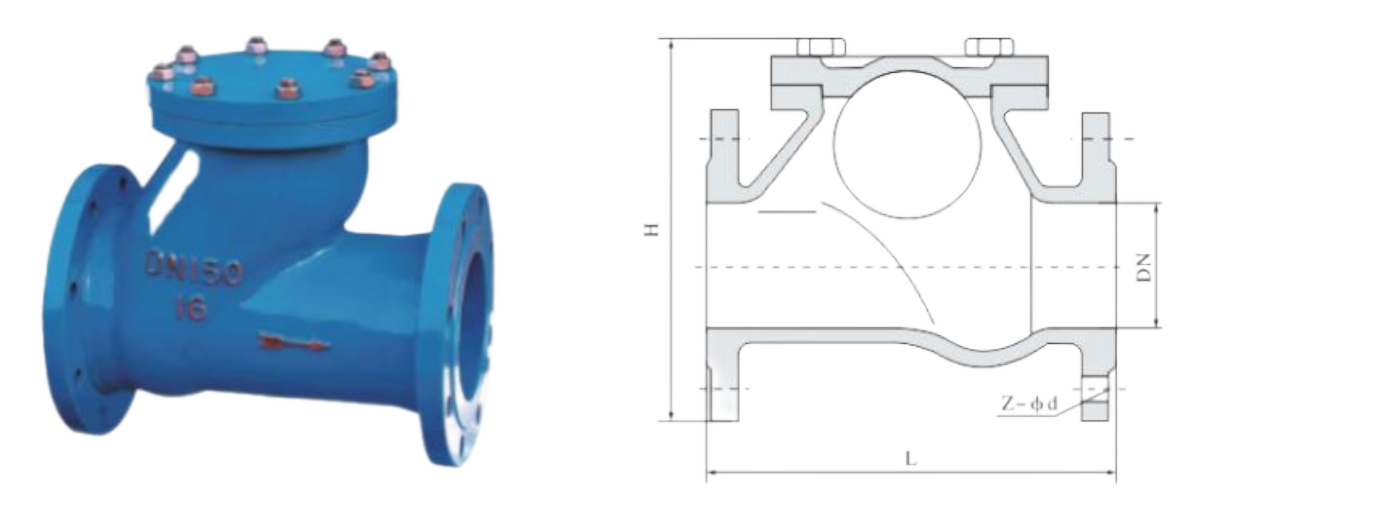
1.0MPa											
NPS in	DN mm	L	D	D1	D2	f	b	Z-φd	D0	H	Weight Kg
1/2"	15	130	95	65	45	2	14	4-14	105	55	5
3/4"	20	150	105	75	55	2	16	4-14	115	58	7
1"	25	160	115	85	65	2	16	4-14	128	60	9
1-1/4"	32	180	135	100	78	2	18	4-18	145	75	11
1-1/2"	40	200	145	110	85	3	18	4-18	160	82	13.5
2"	50	230	160	125	100	3	20	4-18	178	95	18
2-1/2"	65	290	180	145	120	3	20	4-18	205	105	22
3"	80	310	195	160	135	3	22	8-18	230	120	28
4"	100	350	215	180	155	3	22	8-18	255	135	34
5"	125	400	245	210	185	3	24	8-18	305	158	58
6"	150	480	280	240	210	3	24	8-18	345	180	72
8"	200	495	335	295	265	3	26	8-18	415	215	150
10"	250	622	390	350	320	3	28	12-18	490	240	165
12"	300	698	440	400	368	4	28	12-23	540	265	190
14"	350	787	500	460	428	4	30	16-23	585	300	225

2.5MPa											
NPS in	DN mm	L	D	D1	D2	f	b	Z-φd	D0	H	Weight Kg
1/2"	15	130	95	65	45	2	14	4-14	110	55	6
3/4"	20	150	105	75	55	2	16	4-14	120	58	7.8
1"	25	160	115	85	65	2	16	4-14	135	60	10
1-1/4"	32	180	135	100	78	2	18	4-18	150	75	12.5
1-1/2"	40	200	145	110	85	3	18	4-18	165	82	14.5
2"	50	230	160	125	100	3	20	4-18	185	95	19.5
2-1/2"	65	290	180	145	120	3	20	4-18	210	105	25.5
3"	80	310	195	160	135	3	22	8-18	235	120	30
4"	100	350	215	180	155	3	24	8-18	260	135	36
5"	125	400	245	210	185	3	26	8-18	310	158	62
6"	150	480	280	240	210	3	28	8-23	350	180	78
8"	200	495	335	295	265	3	30	12-23	420	215	156
10"	250	622	405	355	320	3	32	12-25	505	240	172
12"	300	698	460	410	375	4	34	12-25	560	265	240
14"	350	787	520	470	435	4	38	16-25	605	300	280



Model	PN (MPa)	DN mm	L	D	D1	D2	Z-φd	B	Weight Kg
H44/F46J-6 H44/F46J-10	1.0	20	160	105	75	59	4-14	128	-
		25	160	115	85	68	4-14	128	-
		32	180	140	100	78	4-18	150	4.5
		40	200	150	110	88	4-18	160	7
		50	230	165	125	102	4-18	178	8
		65	290	185	145	122	4-18	205	10
		80	310	200	160	133	8-18	230	18
		100	350	220	180	158	8-18	255	24
		125	400	250	210	184	8-18	305	30.5
		150	480	285	240	212	8-23	345	47.5
	0.6	200	500	340	295	268	8-23	415	63.5
		250	550	395	350	320	12-23	495	96.5
	0.4	300	698	445	400	368	12-23	540	144
		350	787	505	460	430	16-23	620	224
		400	914	565	515	482	16-25	680	254
		450	978	615	565	532	20-25	-	300
		500	978	670	620	585	22-25	-	392

DN mm	inch	L	D				Weight Kg
			1.0MPa	1.6MPa	2.5MPa	4.0MPa	
50	2	22	109	109	109	109	1.2
65	2-1/2	24	129	129	129	129	1.6
80	3	24	144	144	144	144	2.2
100	4	28	164	164	170	170	2.7
125	5	30	194	194	196	196	3.8
150	6	40	221	221	226	226	5.8
200	8	43	275	275	286	293	14
250	10	43	331	331	343	355	17.5
300	12	50	380	386	403	420	27
350	14	52	440	446	460	477	41.5
400	16	62	491	498	517	549	60
450	18	62	541	558	567	574	74
500	20	65	596	620	627	631	116
600	24	70	698	734	734	750	178



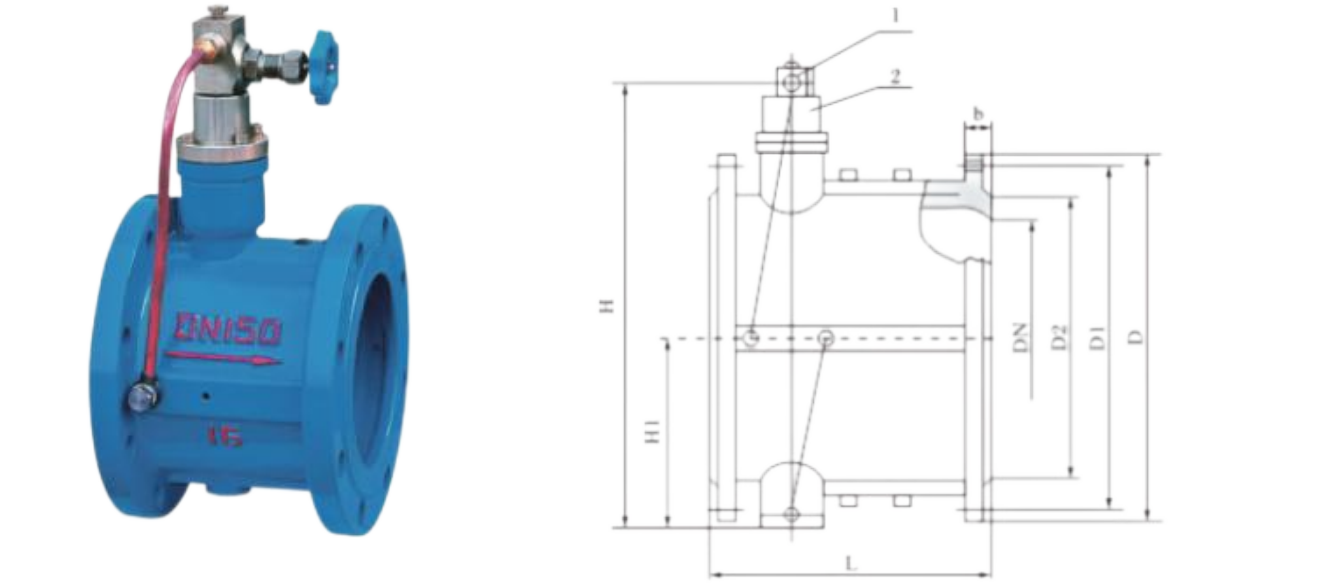
Application and features

The slide ball check valve uses a rubber-covered ball as the valve disc. Under the action of the medium, it can roll up and down on the integral slide in the valve body to open or close the valve. It has good sealing performance, silent closing, and does not produce water hammer. The valve body adopts a full water flow channel, with large flow, small resistance, and 50% less head loss than the swing type. It can be installed horizontally or vertically. It can be used for cold water, hot water, industrial and domestic sewage pipe networks, and is more suitable for submersible sewage pumps. The medium temperature is 0~80°C.

Product parameters

Model	Nominal pressure	Shell test pressure	Sealing test pressure	Body&bonnet material
HQ41X-10	1.0	1.5	1.1	H200
HQ41X-16	1.6	2.4	1.76	

DN mm	50	65	80	100	125	150	200	250	300	350
L	180	200	260	300	350	400	500	600	700	800
H	185	210	245	280	335	400	495	600	715	820



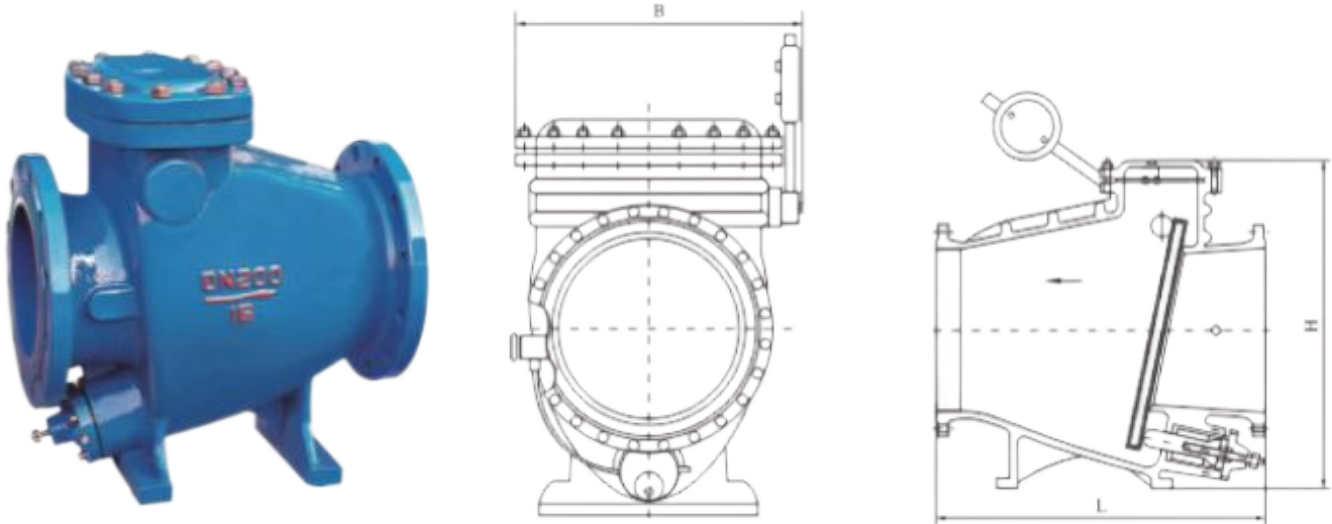
Materials

- Valve body: cast steel, cast iron
- Valve disc: carbon steel
- Valve stem: stainless steel
- Spring: stainless steel
- Valve seat: NBR

Product specification

Model	Face to Face	Flange Ends	Test & Check	Pressure-Temp.	Marking		Supply
BS 1868 API 6D	ASME B16.10 API 6D	ASME B16.5	API 598 API 6D	ASME B16.34	MSS SP-25		API 600 BS 5160

DN mm	L	H	H1	DN mm	L	H	H1
40	140	200	88	350	290	480	297
50	150	215	98	400	310	550	324
65	170	225	108	450	330	585	351
80	180	235	118	500	350	640	379
100	190	280	130	600	390	720	434
125	200	290	148	700	430	780	491
150	210	310	172	800	470	840	549
200	230	350	210	900	510	990	600
250	250	415	240	1000	550	1050	655
300	270	450	264	1200	630	1210	770



Product parameters

Nominal pressure: 1.0~2.5MPa
Nominal diameter: 40~800mm
Applicable medium: water and weakly corrosive fluids
Applicable temperature: 0~80℃
Flange standard: GB/T 17241.6, GB/T 9113
Test standard: GB/T 13927, API 598

Materials

Valve body&bonnet: cast steel, grey cast iron
Valve disc: steel plate, rubber assembly
Valve stem: stainless steel

DN mm	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800
L	200	230	290	310	350	400	480	500	600	700	800	900	1000	1100	1300	1400	1500
H	300	300	320	354	350	380	500	580	670	730	820	920	950	1100	1200	1550	1700
B	220	270	290	300	320	340	410	450	550	580	630	700	800	900	990	1120	1300

Precautions for storage, installation and use

1. When the valve is stored for a long time, it should be placed in a dry and ventilated room. The flange diameter of the valve side must be blocked with a cover, and anti-rust oil should be applied to the processed surface regularly.
2. Before installation, check whether the valve logo is consistent with the use requirements, carefully check whether all parts are intact, and check whether all fasteners are loose.
3. Before installation, the valve and pipeline should be cleaned to prevent debris from entering the valve channel.
4. When in use, lubricating oil should be added to the valve stem nut and transmission parts regularly every month.
5. For valves with pressure relief devices, when the pressure in the middle cavity of the valve body increases, the pressure can be relieved through the pressure relief device on the valve body or the valve cover to ensure that the valve is in a safe working state.
6. For valves with sewage discharge devices, the screw plug can be removed and the sewage discharge valve can be assembled if sewage needs to be discharged.
7. It is strictly forbidden to repair the valve under pressure or knock on any part of the valve.

Common faults and solutions

Fault phenomenon	Reasons	Solutions
Leakage at the top of the stuffing box	1. Too little packing 2. The packing gland is loose 3. The O-ring is damaged	1. Add packing 2. Tighten the gland bolts 3. Replace the O-ring
Leakage at the middle flange seal	1. The connecting bolt is loose 2. The sealing ring or gasket is damaged	1. Tighten the bolts 2. Replace the sealing ring or gasket
Leakage at the sealing joint	1. The seal pair is damaged 2. There are debris 3. The sealing grease is not enough	1. Repair the sealing pair 2. Remove the debris 3. Add sealing grease
Leakage at each joint	1. The joint is loose. 2 The gasket is damaged	1. Tighten the joint 2. Replace the gasket