

04

RUITONG
VALVE

CHECK VALVE SERIES



API SWING CHECK VALVE

Overview

The American standard check valve produced by the company is designed and manufactured in full accordance with American standards, with a beautiful and advanced structure. The American standard check valve refers to a valve that automatically opens and closes the valve disc based on the flow of the medium itself, used to prevent the backflow of the medium, also known as a check valve, one-way valve, or backflow valve. Check valve belongs to an automatic valve, whose main function is to prevent medium backflow, prevent pump and drive motor from reversing, and prevent the release of container medium.

Performance parameter

No.	Entry name	Entry name					
		150(Lb)	300(Lb)	600(Lb)	900(Lb)	1500(Lb)	2500(Lb)
1	PN (MPa)	2.0	5.0	10.0	15.0	25.0	42.0
2	Shell strength test pressure (MPa)	1.5 Times the nominal pressure at room temperature					
3	High-pressure sealing test pressure (MPa)	1.1Times the nominal pressure at room temperature					
4	Nominal pressure at room temperature (MPa)	According to ASME B16.34 pressure temperature rating					

Product specification

Design	Structure Length	Connection flange	Test and Inspection	ASME B16.34
BS1868/API6D ASME B16.34	ASME B16.10	ASME B16.5 ASME B16.47A系列	API 598/API 6D	ASME B16.34

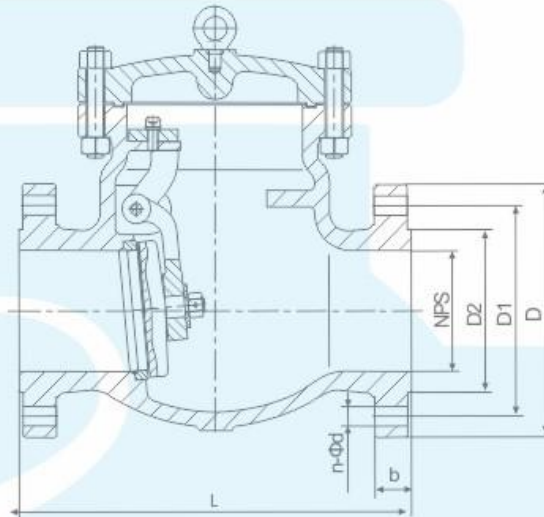
Main components material

Part Name	Material name					
Body	A216 WCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
Valve cover	A216 WCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
valve plate	A216 WCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
sealing face	13Cr/STL	STL	STL	STL	STL	STL
Valve shaft	A182 F6a	A182 F11	A182 F304	A182 F316	A182 F304L	A182 F316L
shim	304+Flexible graphite/soft iron	304+Flexible graphite/F304	304+Flexible graphite/F304	316+Flexible graphite/F316	304L+Flexible graphite/F304L	316L+Flexible graphite/F316L
Bolt	A193 B7	A193 B16	A193 B8	A193 B8M	A193 B8	A193 B8M
Nut	A194 2H	A194 4	A194 8	A194 8M	A194 8	A194 8M
Usage temperature	-29~425℃	-29~540℃	-46~425℃	-46~425℃	-46~425℃	-46~425℃
Applicable media	Water, steam, oil products, etc	Water, steam, etc	Nitric acid weakly corrosive medium	Nitric acid weakly corrosive medium	Nitric acid weakly corrosive medium	Nitric acid weakly corrosive medium



API SWING CHECK VALVE

H44^H_W-150Lb



Class 150LB Main connection dimensions

Unit:mm

DN	SIZE	L	D	D1	D2	b	f	n-Φd	H
50	2"	203	152	120.7	92.1	16.3	2	4-19	161
65	2-1/2"	216	180	139.7	104.8	17.9	2	4-19	180
80	3"	241	190	152.4	127	19.5	2	4-19	190
100	4"	292	230	190.5	157.2	24.3	2	8-19	203
125	5"	330	255	215.9	185.7	24.3	2	8-22	229
150	6"	356	280	241.3	215.9	25.9	2	8-22	257
200	8"	495	345	298.5	269.9	29	2	8-22	292
250	10"	622	405	362	323.8	30.6	2	12-26	355
300	12"	698	485	431.8	381	32.2	2	12-26	396
350	14"	787	535	476.3	412.8	35.4	2	12-29	445
400	16"	864	595	539.8	469.9	37	2	16-29	490
450	18"	978	635	577.9	533.4	40.1	2	16-32	520
500	20"	978	700	635	584.2	43.3	2	20-32	546
600	24"	1295	815	749.3	692.2	48.1	2	20-35	880

API SWING CHECK VALVE

Class 300LB Main connection dimensions

Unit:mm

DN	SIZE	L	D	D1	D2	b	f	n-Φd	H
50	2"	267	165	127	92.1	22.7	2	8-19	178
65	2-1/2"	292	190	149.2	104.8	25.9	2	8-22	190
80	3"	318	210	168.3	127	29	2	8-22	216
100	4"	356	255	200	157.2	32.2	2	8-22	241
125	5"	400	280	235	185.7	35.4	2	8-22	267
150	6"	444	320	269.9	215.9	37	2	12-22	305
200	8"	533	380	330.2	269.9	41.7	2	12-26	368
250	10"	622	445	387.4	323.8	48.1	2	16-29	394
300	12"	711	520	450.8	381	51.3	2	16-32	445
350	14"	838	585	514.4	412.8	54.4	2	20-32	470
400	16"	864	650	571.5	469.9	57.6	2	20-35	533
450	18"	978	710	628.6	533.4	60.8	2	24-35	584
500	20"	1016	775	685.8	584.2	64	2	24-35	610
600	24"	1346	915	812.8	692.2	70.3	2	24-41	860

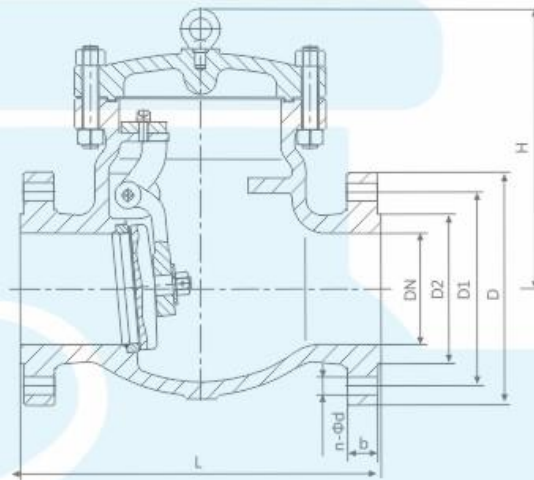
Class 600LB Main connection dimensions

Unit:mm

DN	SIZE	L	D	D1	D2	b	f	n-Φd	H
50	2"	292	165	127	92.1	32.4	7	8-19	203
65	2-1/2"	330	190	149.2	104.8	35.6	7	8-22	229
80	3"	356	210	168.3	127	38.8	7	8-22	235
100	4"	432	275	215.9	157.2	45.1	7	8-25.5	286
125	5"	508	330	266.7	185.7	51.5	7	8-29	292
150	6"	559	355	292.1	215.9	54.7	7	12-29	330
200	8"	660	420	349.2	269.9	62.6	7	12-32	381
250	10"	787	510	431.8	323.8	70.5	7	16-35	457
300	12"	838	560	489	381	73.7	7	20-35	581
350	14"	889	605	527	412.8	76.9	7	20-38	635
400	16"	991	685	603.2	469.9	83.2	7	20-41	684
450	18"	1092	745	654	533.4	89.6	7	20-45	752
500	20"	1194	815	723.9	584.2	95.9	7	24-45	975
600	24"	1397	940	838.2	692.2	108.6	7	24-51	1111



JIS SWING CHECK VALVE



Product specification

Design	Structure Length	Connection flange	Pressure-temperature	Test and Inspection
JIS B2074 B2084	JIS B2002	JIS B2212 B2214	JIS B2074 B2084	JIS B2003

10K Main connection dimensions

Unit:mm

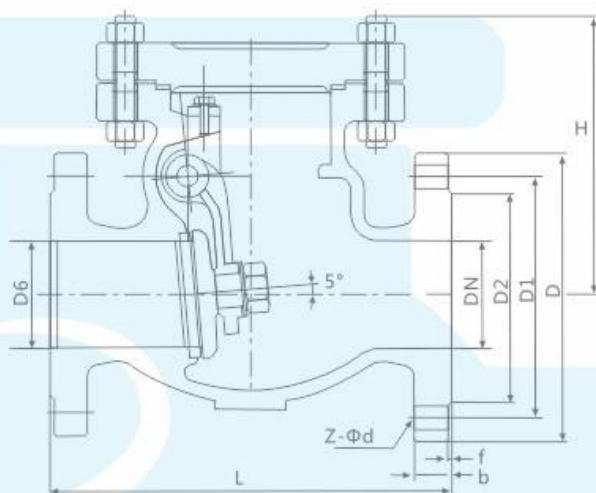
DN	SIZE	L	D	D1	D2	b	n-Φd
40	1-1/2"	165	140	105	85	16	4-19
50	2"	203	155	120	100	16	4-19
65	2-1/2"	216	175	140	120	18	4-19
80	3"	241	185	150	130	18	8-19
100	4"	292	210	175	155	18	8-19
125	5"	330	250	210	185	20	8-23
150	6"	356	280	240	215	22	8-23
200	8"	495	330	290	265	22	12-23
250	10"	622	400	355	325	24	12-25
300	12"	698	445	400	390	24	16-25
350	14"	787	490	445	415	26	16-25
400	16"	864	560	510	475	28	16-27
450	18"	978	620	565	530	30	20-27

20K Main connection dimensions

Unit:mm

DN	SIZE	L	D	D1	D2	b	n-Φd
50	2"	267	155	120	100	18	8-19
65	2-1/2"	292	175	140	120	20	8-19
80	3"	318	200	160	135	22	8-23
100	4"	292	225	185	160	24	8-23
150	6"	356	305	260	230	28	12-25
200	8"	495	350	305	275	30	12-25
250	10"	622	430	380	345	34	12-27
300	12"	698	480	430	395	35	16-27
350	14"	787	540	480	440	40	16-33
400	16"	864	605	540	495	46	16-33
450	18"	978	675	605	560	48	20-33

GOST SWING CHECK VALVE



PN16 Main connection dimensions

Unit:mm

DN	L	D	D1	D2	D6	b-f	F2	z-Φd	H	Wall thickness
20	150	105	75	55	-	18-2	-	4-Φ14	100	6.4
25	160	115	85	65	-	18-2	-	4-Φ14	100	6.4
32	180	140	100	78	-	18-2	-	4-Φ18	105	6.4
40	200	150	110	85	-	18-3	-	4-Φ18	115	6.4
50	230	165	125	100	-	18-3	-	4-Φ18	135	7.9
65	290	185	145	120	-	18-3	-	8-Φ18	140	11
80	310	200	160	135	-	20-3	-	8-Φ18	145	11.5
100	350	220	180	155	-	20-3	-	8-Φ18	165	12.5
125	400	250	210	185	-	22-3	-	8-Φ18	250	13
150	480	285	240	210	-	22-3	-	8-Φ22	295	13.5
200	550	340	295	265	-	24-3	-	12-Φ22	315	15
250	650	405	355	320	-	26-3	-	12-Φ26	430	16
300	750	460	410	375	-	28-4	-	12-Φ26	480	18
350	850	520	470	435	-	30-4	-	16-Φ26	500	20
400	950	580	525	485	-	32-4	-	16-Φ30	520	21
450	1050	640	585	545	-	40-4	-	20-Φ30	580	22
500	1150	715	650	608	-	44-4	-	20-Φ33	630	24
600	1350	840	770	718	-	54-5	-	20-Φ36	780	26

PN25 Main connection dimensions

Unit:mm

DN	L	D	D1	D2	D6	b-f	F2	z-Φd	H	Wall thickness
20	150	105	75	55	-	18-2	-	4-Φ14	100	6.4
25	160	115	85	65	-	18-2	-	4-Φ14	100	6.4
32	180	140	100	78	-	18-2	-	4-Φ18	105	6.4
40	200	150	110	85	-	18-3	-	4-Φ18	115	6.4
50	230	165	125	100	-	20-3	-	4-Φ18	135	7.9
65	290	185	145	120	-	22-3	-	8-Φ18	140	11
80	310	200	160	135	-	24-3	-	8-Φ18	145	11.5
100	350	235	190	160	-	24-3	-	8-Φ22	165	12.5
125	400	270	220	188	-	26-3	-	8-Φ26	250	13
150	480	300	250	218	-	28-3	-	8-Φ26	295	13.5
200	550	360	310	278	-	30-3	-	12-Φ26	315	15
250	650	425	370	332	-	32-3	-	12-Φ30	430	16
300	750	485	430	390	-	34-4	-	16-Φ30	480	18
350	850	555	490	448	-	38-4	-	16-Φ33	500	20
400	950	620	550	505	-	40-4	-	16-Φ36	520	21
450	1050	670	600	555	-	46-4	-	20-Φ36	580	22
500	1150	730	660	610	-	48-4	-	20-Φ36	630	24
600	1350	845	770	718	-	58-5	-	20-Φ39	780	26

PN40 Main connection dimensions

Unit:mm

DN	L	D	D1	D2	D6	b-f	F2	z-Φd	H	Wall thickness
20	150	105	75	55	51	18-2	-	4-Φ14	100	6.4
25	160	115	85	65	58	18-2	-	4-Φ14	100	6.4
32	180	140	100	78	66	18-2	-	4-Φ18	105	6.4
40	200	150	110	85	76	18-3	-	4-Φ18	115	6.4
50	230	165	125	100	88	20-3	-	4-Φ18	135	10
65	290	185	145	120	110	22-3	-	8-Φ18	140	12
80	310	200	160	135	121	24-3	-	8-Φ18	145	12.5
100	350	235	190	160	150	24-3	-	8-Φ22	165	13.5
125	400	270	220	188	176	26-3	-	8-Φ26	250	14
150	480	300	250	218	204	28-3	-	8-Φ26	295	16
200	550	375	320	282	260	34-3	-	12-Φ30	315	17
250	650	450	385	345	313	38-3	-	12-Φ33	430	18.5
300	750	515	450	408	364	42-4	-	16-Φ33	480	22
350	850	580	510	465	422	46-4	-	16-Φ36	500	24
400	950	660	585	535	474	50-4	-	16-Φ39	520	25
450	1050	685	610	560	524	37-4	-	20-Φ39	580	26
500	1150	755	670	612	576	57-4	-	20-Φ42	630	30
600	1350	890	795	730	678	72-5	-	20-Φ48	780	32

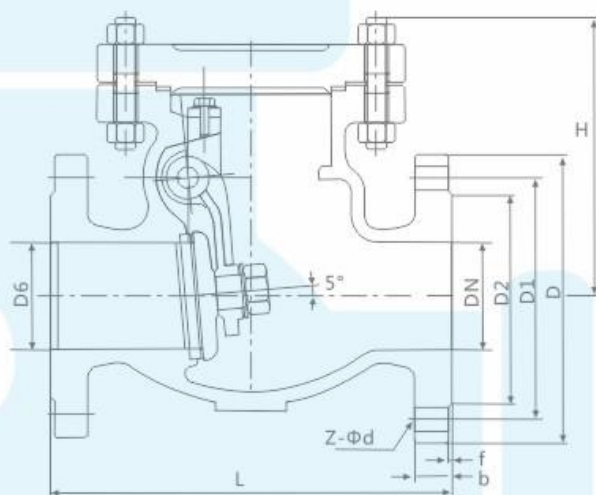
PN63 Main connection dimensions

Unit:mm

DN	L	D	D1	D2	D6	b-f	F2	z-Φd	H	Wall thickness
50	300	180	135	105	88	26-3	4	4-Φ22	192	11
65	340	205	160	130	110	26-3	4	8-Φ22	207	13
80	380	215	170	140	121	28-3	4	8-Φ22	207	14
100	430	250	200	168	150	30-3	4.5	8-Φ26	235	15
125	500	295	240	202	176	34-3	4.5	8-Φ30	265	15.5
150	550	345	280	240	204	36-3	4.5	8-Φ33	297	18
200	650	415	345	300	260	42-3	4.5	12-Φ36	357	21
250	775	470	400	352	313	46-3	4.5	12-Φ36	405	23
300	900	530	460	412	364	52-4	4.5	16-Φ36	465	25
350	1025	600	525	475	422	56-4	5	16-Φ39	514	28
400	1150	700	585	525	474	60-4	5	16-Φ42	568	30
500	1400	-	705	640	576	-	5	-	620	35

GB SWING CHECK VALVE

H44^H_W-16C/P/R



Standards

Design and manufacture as GB/T12236
Face to face dimensions as GB/T12221
End flange dimension as JB/T79
Pressure test as JB/T9092

Test Pressure

Test Item		Shell Test	Seal Test	Back Seal Test	Air Seal Test
Medium		Water			Air
Unit		MPa	MPa	MPa	MPa
Nominal Pressure PN(MPa)	1.6	2.4	1.8	1.8	0.5~0.7
	2.5	3.8	2.8	2.8	
	4.0	6.0	4.4	4.4	
	6.4	9.6	7.0	7.0	
	10.0	15.0	11.0	11.0	
	16.0	24.0	18.0	18.0	

Materials for Main Parts

Name	Material								
Body/Bonnet	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
Wedge	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
Gasket	PTFF				Graphite				
Bolt	Stainless Steel				35CrMoA				
Nut	Stainless Steel				45, 35CrMoA				

GB SWING CHECK VALVE

HG/T 20592

Unit:mm

PN16 Main connection dimensions

DN	L	D	D1	D2	D6	b-f	z-Φd	H	Wall thickness
20	150	105	75	55	-	18-2	4-Φ14	100	6.4
25	160	115	85	65	-	18-2	4-Φ14	100	6.4
32	180	140	100	78	-	18-2	4-Φ18	105	6.4
40	200	150	110	85	-	18-3	4-Φ18	115	6.4
50	230	165	125	100	-	18-3	4-Φ18	135	7.9
65	290	185	145	120	-	18-3	8-Φ18	140	11
80	310	200	160	135	-	20-3	8-Φ18	145	11.5
100	350	220	180	155	-	20-3	8-Φ18	165	12.5
125	400	250	210	185	-	22-3	8-Φ18	250	13
150	480	285	240	210	-	22-3	8-Φ22	295	13.5
200	550	340	295	265	-	24-3	12-Φ22	315	15
250	650	405	355	320	-	26-3	12-Φ26	430	16
300	750	460	410	375	-	28-4	12-Φ26	480	18
350	850	520	470	435	-	30-4	16-Φ26	500	20
400	950	580	525	485	-	32-4	16-Φ30	520	21
450	1050	640	585	545	-	40-4	20-Φ30	580	22
500	1150	715	650	608	-	44-4	20-Φ33	630	24
600	1350	840	770	718	-	54-5	20-Φ36	780	26

PN25 Main connection dimensions

Unit:mm

20	150	105	75	55	-	18-2	4-Φ14	100	6.4
25	160	115	85	65	-	18-2	4-Φ14	100	6.4
32	180	140	100	78	-	18-2	4-Φ18	105	6.4
40	200	150	110	85	-	18-3	4-Φ18	115	6.4
50	230	165	125	100	-	20-3	4-Φ18	135	7.9
65	290	185	145	120	-	22-3	8-Φ18	140	11
80	310	200	160	135	-	24-3	8-Φ18	145	11.5
100	350	235	190	160	-	24-3	8-Φ22	165	12.5
125	400	270	220	188	-	26-3	8-Φ26	250	13
150	480	300	250	218	-	28-3	8-Φ26	295	13.5
200	550	360	310	278	-	30-3	12-Φ26	315	15
250	650	425	370	332	-	32-3	12-Φ30	430	16
300	750	485	430	390	-	34-4	16-Φ30	480	18
350	850	555	490	448	-	38-4	16-Φ33	500	20
400	950	620	550	505	-	40-4	16-Φ36	520	21
450	1050	670	600	555	-	46-4	20-Φ36	580	22
500	1150	730	660	610	-	48-4	20-Φ36	630	24
600	1350	845	770	718	-	58-5	20-Φ39	780	26

PN40 Main connection dimensions

Unit:mm

20	150	105	75	55	51	18-2	4-Φ14	100	6.4
25	160	115	85	65	58	18-2	4-Φ14	100	6.4
32	180	140	100	78	66	18-2	4-Φ18	105	6.4
40	200	150	110	85	76	18-3	4-Φ18	115	6.4
50	230	165	125	100	88	20-3	4-Φ18	135	10
65	290	185	145	120	110	22-3	8-Φ18	140	12
80	310	200	160	135	121	24-3	8-Φ18	145	12.5
100	350	235	190	160	150	24-3	8-Φ22	165	13.5
125	400	270	220	188	176	26-3	8-Φ26	250	14
150	480	300	250	218	204	28-3	8-Φ26	295	16
200	550	375	320	282	260	34-3	12-Φ30	315	17
250	650	450	385	345	313	38-3	12-Φ33	430	18.5
300	750	515	450	408	364	42-4	16-Φ33	480	22
350	850	580	510	465	422	46-4	16-Φ36	500	24
400	950	660	585	535	474	50-4	16-Φ39	520	25
450	1050	685	610	560	524	37-4	20-Φ39	580	26
500	1150	755	670	612	576	57-4	20-Φ42	630	30
600	1350	890	795	730	678	72-5	20-Φ48	780	32

GB SWING CHECK VALVE

HG/T 20592
Unit:mm

PN63Main connection dimensions

DN	L	D	D1	D2	D6	b-f	F2	Z-Φd	H	Wall thickness
50	300	180	135	105	88	26-3	4	4-Φ22	192	11
65	340	205	160	130	110	26-3	4	8-Φ22	207	13
80	380	215	170	140	121	28-3	4	8-Φ22	207	14
100	430	250	200	168	150	30-3	4.5	8-Φ26	235	15
125	500	295	240	202	176	34-3	4.5	8-Φ30	265	15.5
150	550	345	280	240	204	36-3	4.5	8-Φ33	297	18
200	650	415	345	300	260	42-3	4.5	12-Φ36	357	21
250	775	470	400	352	313	46-3	4.5	12-Φ36	405	23
300	900	530	460	412	364	52-4	4.5	16-Φ36	465	25
350	1025	600	525	475	422	56-4	5	16-Φ39	514	28
400	1150	670	585	525	474	60-4	5	16-Φ42	568	30
500	1400	-	705	640	574	-	5	-	620	35

PN100Main connection dimensions

Unit:mm

50	300	190	145	112	88	30-3	4	4-Φ26	192	13
65	340	220	170	138	110	34-3	4	8-Φ26	207	13.5
80	380	230	180	148	121	36-3	4	8-Φ26	235	15
100	430	265	210	172	150	40-3	4.5	8-Φ30	265	18
125	500	315	250	210	176	40-3	4.5	8-Φ33	313	19
150	550	355	290	250	204	44-3	4.5	12-Φ33	360	23
200	650	430	360	312	260	52-3	4.5	12-Φ36	420	28
250	775	505	430	382	313	60-3	4.5	12-Φ39	480	32
300	900	585	500	442	364	68-4	4.5	16-Φ42	520	36
350	1025	655	560	498	422	74-4	5	16-Φ48	584	40
400	1150	715	620	558	474	78-4	5	16-Φ48	625	43

PN160Main connection dimensions

Unit:mm

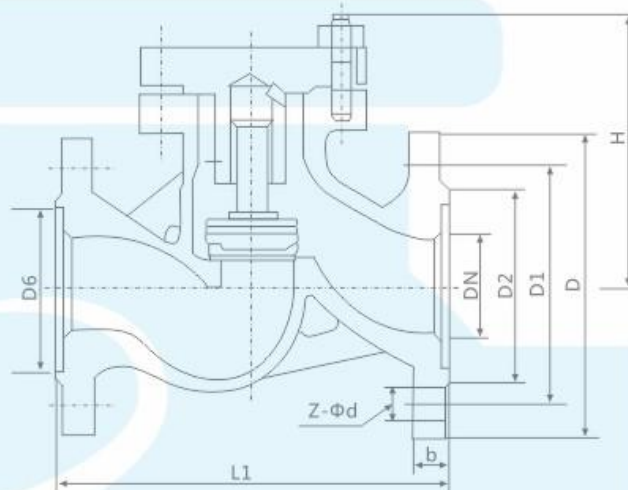
50	300	195	165	132	88	30-3	4	4-Φ26	251	18
65	340	220	190	152	110	34-3	4	8-Φ26	282	20
80	380	230	205	168	121	36-3	4	8-Φ26	320	24
100	430	265	240	200	150	40-3	4.5	8-Φ30	356	30
125	500	315	285	238	176	44-3	4.5	8-Φ33	393	35
150	550	355	318	270	204	50-3	4.5	12-Φ33	430	35
200	650	430	400	345	260	60-3	4.5	12-Φ36	470	40
250	750	515	485	425	313	68-3	4.5	12-Φ42	514	45
300	900	585	570	510	364	78-4	4.5	12-Φ42	570	50

PN250Main connection dimensions

Unit:mm

50	368	210	160	128	70	40-3	5	8-Φ25	310	23
65	419	260	203	165	97	48-3	5	8-Φ30	346	26
80	470	290	230	190	116	54-3	5	8-Φ34	385	30
100	546	360	292	245	138	66-3	6	8-Φ41	406	35
125	673	385	318	270	170	76-3	6	12-Φ41	534	38
150	705	440	360	305	190	82-3	6	12-Φ45	560	40
200	832	535	440	380	245	92-3	6	12-Φ51	318	45
250	991	670	572	508	319	110-3	6	16-Φ55	673	50

GB LIFT CHECK VALVE

H41^H_W-16C/P/R


Standards

Design and manufacture as GB/T12235
Face to face dimensions as GB/T12221
End flange dimension as JB/T79
Pressure test as JB/T9092

Test Pressure

Test Item		Shell Test	Seal Test	Back Seal Test	Air Seal Test
Medium		Water			Air
Unit		MPa	MPa	MPa	MPa
Nominal Pressure PN(MPa)	1.6	2.4	1.8	1.8	0.5~0.7
	2.5	3.8	2.8	2.8	
	4.0	6.0	4.4	4.4	
	6.4	9.6	7.0	7.0	
	10.0	15.0	11.0	11.0	
	16.0	24.0	18.0	18.0	

Materials for Main Parts

Name	Material									
Body/Bonnet	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5	
Wedge	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5	
Gasket	PTFF					Graphite				
Bolt	Stainless Steel					35CrMoA				
Nut	Stainless Steel					45, 35CrMoA				

GB LIFT CHECK VALVE

HG/T 20592
Unit:mm

PN16 Main connection dimensions

DN	L	D	D1	D2	D6	b-f	f1	z-Φd	H	Wall thickness
15	130	95	65	45	-	16-2	-	4-Φ14	90	6.3
20	150	105	75	55	-	18-2	-	4-Φ14	105	6.3
25	160	115	85	65	-	18-2	-	4-Φ14	115	6.3
32	180	140	100	78	-	18-2	-	4-Φ18	120	6.3
40	200	150	110	85	-	18-3	-	4-Φ18	130	6.3
50	230	165	125	100	-	18-3	-	4-Φ18	140	7.9
65	290	185	145	120	-	18-3	-	8-Φ18	150	11
80	310	200	160	135	-	20-3	-	8-Φ18	170	11.5
100	350	220	180	155	-	20-3	-	8-Φ18	185	12.5
125	400	250	210	185	-	22-3	-	8-Φ18	195	13
150	480	285	240	210	-	22-3	-	8-Φ22	225	13.5
200	600	340	295	265	-	24-3	-	12-Φ22	250	15
250	650	405	355	320	-	26-3	-	12-Φ26	270	16
300	750	460	410	375	-	28-3	-	12-Φ26	300	18

PN25 Main connection dimensions

DN	L	D	D1	D2	D6	b-f	f1	z-Φd	H	Wall thickness
15	130	95	65	45	-	16-2	-	4-Φ14	90	6.3
20	150	105	75	55	-	18-2	-	4-Φ14	105	6.3
25	160	115	85	65	-	18-2	-	4-Φ14	115	6.3
32	180	140	100	78	-	18-2	-	4-Φ18	120	6.3
40	200	150	110	85	-	18-3	-	4-Φ18	130	6.3
50	230	165	125	100	-	20-3	-	4-Φ18	140	7.9
65	290	185	145	120	-	22-3	-	8-Φ18	150	11
80	310	200	160	135	-	24-3	-	8-Φ18	170	11.5
100	350	235	190	160	-	24-3	-	8-Φ22	185	12.5
125	400	270	220	188	-	26-3	-	8-Φ26	195	13
150	480	300	250	218	-	28-3	-	8-Φ26	225	13.5
200	600	360	310	278	-	30-3	-	12-Φ26	250	15
250	650	425	370	335	-	32-3	-	12-Φ30	270	16
300	750	485	430	390	-	34-4	-	16-Φ30	300	18

PN40 Main connection dimensions

DN	L	D	D1	D2	D6	b-f	f1	z-Φd	H	Wall thickness
25	160	115	85	65	58	18-2	4	4-Φ14	115	6.3
32	180	140	100	78	66	18-2	4	4-Φ18	120	6.3
40	200	150	110	85	76	18-3	4	4-Φ18	130	6.3
50	230	165	125	100	88	20-3	4	4-Φ18	140	10
65	290	185	145	120	110	22-3	4	8-Φ18	150	12
80	310	200	160	135	121	24-3	4	8-Φ18	170	12.5
100	350	235	190	160	150	24-3	4.5	8-Φ22	185	13.5
125	400	270	220	188	176	26-3	4.5	8-Φ26	195	14
150	480	300	250	218	204	28-3	4.5	8-Φ26	225	16
200	600	375	320	282	260	34-3	4.5	12-Φ30	250	17

PN64 Main connection dimensions

DN	L	D	D1	D2	D6	b-f	f1	z-Φd	H	Wall thickness
15	170	105	75	55	40	20-2	4	4-Φ14	110	7.4
20	190	130	90	68	51	22-2	4	4-Φ18	125	7.9
25	210	140	100	78	58	24-2	4	4-Φ18	152	7.9
32	230	155	110	82	66	26-2	4	4-Φ22	168	8.6
40	260	170	125	95	76	28-3	4	4-Φ22	170	9.4
50	300	180	135	105	88	26-3	4	4-Φ22	188	11
65	340	205	160	130	110	26-3	4	8-Φ22	205	13
80	380	215	170	140	121	28-3	4	8-Φ22	230	14
100	430	250	200	168	150	30-3	4.5	8-Φ26	280	15
125	500	295	240	202	176	34-3	4.5	8-Φ30	300	15.5
150	550	345	280	240	204	36-3	4.5	8-Φ33	350	18
200	650	415	345	300	260	42-3	4.5	12-Φ36	400	21

GB VERTICAL CHECK VALVE

H42H-¹⁶/_{25C}, P, R
40

The performance specification

Test pressure: nominal pressure (MPa) 1.6/2.5/4.0

Shell test: 2.4/3.8/6.0

Sealing test: 1.8/2.8/4.4

Valve body material: WCB(C)/CF8(P)/CF 8M (R) /WC6/WC9

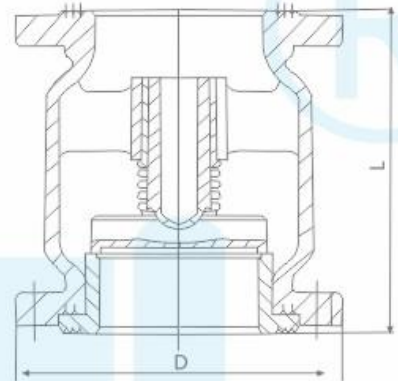
Working temperature: $\leq 425/\leq 100/\leq 100/\leq 550/\leq 550$

Applicable media: water, steam, oil, nitric acid, acetic acid

Execution standard: Design and manufacturing: GB12235 Structural length: Gb12221

Connecting flange: JB/T79-1994

Testing and Inspection: JB/T9092-1999



Main external and connection dimension

H42H-16C, P, R
Unit:mm

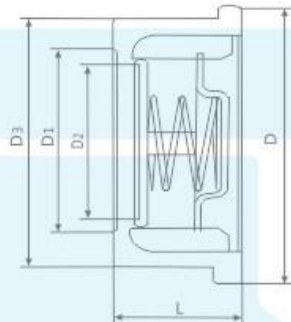
DN	L	D	D1	D2	b-f	z-Φd
15	80	95	65	45	14-2	4-Φ14
20	95	105	75	55	14-2	4-Φ14
25	105	115	85	65	14-2	4-Φ14
32	150	135	100	78	16-2	4-Φ18
40	160	145	110	85	16-3	4-Φ18
50	170	160	125	100	16-3	4-Φ18
65	180	180	145	120	18-3	4-Φ18
80	200	195	160	135	20-3	8-Φ18
100	210	215	180	155	20-3	8-Φ18
125	275	245	210	185	22-3	8-Φ18
150	300	280	240	210	24-3	8-Φ23
200	380	335	295	265	26-3	12-Φ23
250	450	405	355	320	30-3	12-Φ25

Main external and connection dimension

H42H-25C, P, R
Unit:mm

DN	L	D	D1	D2	b-f	z-Φd
15	80	95	65	45	16-2	4-Φ14
20	95	105	75	55	16-2	4-Φ14
25	105	115	85	65	16-2	4-Φ14
32	150	135	100	78	18-2	4-Φ18
40	160	145	110	85	18-2	4-Φ18
50	170	160	125	100	20-3	4-Φ18
65	180	180	145	120	22-3	8-Φ18
80	200	195	160	135	22-3	8-Φ18
100	210	230	190	160	24-3	8-Φ23
125	275	270	220	188	28-3	8-Φ25
150	300	300	250	218	30-3	8-Φ25
200	380	360	310	278	34-3	12-Φ25
250	450	425	370	335	36-3	12-Φ30

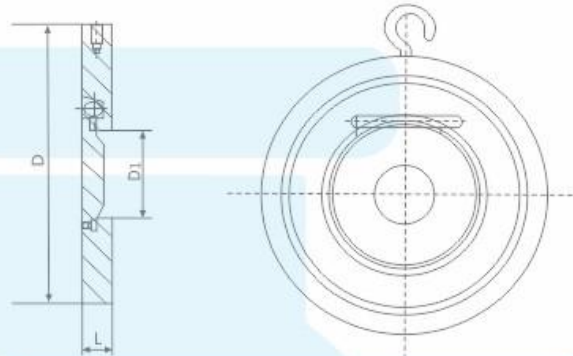
H71 TYPE CLAMP STAINLESS STEEL CHECK VALVE



Main dimensions and weight

PN(MPa)	DN(mm)	size (mm)			Weight (kg)	Piping flange (for reference)			
		L	d	A		Bolt hole center circle diameter D1	Number of bolts	Bolt diameter D	Bolt length L1
1.0 1.6	15	16	45	18	0.12	65	4	M12	75
	20	19	55	25	0.24	75	4	M12	90
	25	22	65	32	0.34	85	4	M12	90
	32	28	78	38	0.53	100	4	M16	100
	40	32	85	45	0.80	110	4	M16	105
	50	40	100	57	1.2	125	4	M16	125
	65	46	120	73	2.2	145	4	M16	130
	80	50	135	89	3.1	160	8	M16	135
	100	60	155	108	5.7	180	8	M16	150
	125	90	185	133	10	210	8	M16	180
	150	106	210	159	14	240	8	M20	210
	200	140	265	219	24	295	12	M20	240
2.5	250	160	320	273	35	355	12	M20	260
	15	16	45	18	0.12	65	4	M12	80
	20	19	55	25	0.24	75	4	M12	90
	25	22	65	32	0.34	85	4	M12	90
	32	28	78	38	0.53	100	4	M16	110
	40	32	85	45	0.80	110	4	M16	115
	50	40	100	57	1.2	125	4	M16	125
	65	46	120	73	2.2	145	8	M16	135
	80	50	135	89	3.1	160	8	M16	145
	100	60	160	108	7.0	190	8	M20	160
	125	90	188	133	12	220	8	M22	205
	150	106	218	159	15	250	8	M22	225
4.0	200	140	278	219	26	310	12	M22	260
	250	160	332	273	40	370	12	M27	280
	15	16	45	18	15	65	4	M12	80
	20	19	55	25	19	75	4	M12	90
	25	22	65	32	24	85	4	M12	90
	32	28	78	38	31	100	4	M16	110
	40	32	85	45	39	110	4	M16	115
	50	40	100	57	48	125	4	M16	125
	65	46	120	73	63	145	8	M16	135
	80	50	135	89	78	160	8	M16	145
	100	60	160	108	98	190	8	M20	160
	125	90	188	133	123	220	8	M22	205
	150	106	218	159	148	250	8	M22	225
	200	140	282	219	248	320	12	M27	275
	250	160	345	273	198	385	12	M30	295

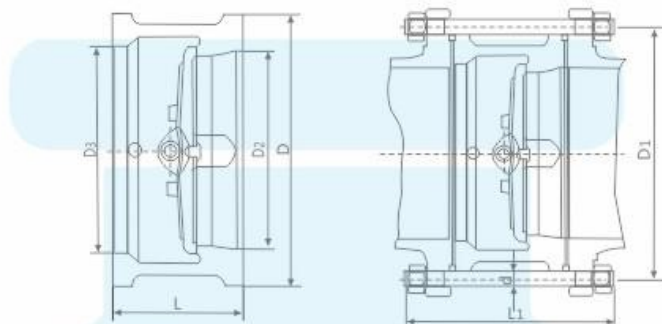
H74 TYPE CLAMP STAINLESS STEEL CHECK VALVE



Main dimensions and weight

PN(MPa)	DN(mm)	size (mm)			Piping flange (for reference)		
		L	d	D1	Bolt hole center circle diameter D1	Number of bolts	Bolt diameter D
1.0	50	14.5	100	25	125	4	M16
	60	14.5	120	38	145	4	M16
	80	14.5	135	46	160	4	M16
	100	14.5	155	71.5	180	8	M16
	125	16	185	95	210	8	M16
	150	19	210	114	240	8	M20
	200	29	265	140	295	8	M20
	250	29	320	188	350	12	M20
	300	38	368	216	400	12	M20
	350	41	428	263	460	16	M20
	400	51	482	305	515	16	M24
	450	51	532	356	565	20	M24
	500	65	585	406	620	20	M24
	600	70	685	482	725	20	M27
	50	14.5	100	25	125	4	M16
	60	14.5	120	38	145	4	M16
1.6	80	14.5	135	46	160	8	M16
	100	14.5	155	71.5	180	8	M16
	125	16	185	95	210	8	M16
	150	19	210	114	240	8	M20
	200	29	265	140	295	12	M20
	250	29	320	188	355	12	M24
	300	38	375	216	410	12	M24
	350	41	435	263	470	16	M24
	400	51	485	305	525	16	M27
	450	51	545	356	585	20	M27
	500	65	608	406	650	20	M30
	600	70	718	482	770	20	M33
	50	14.5	100	25	125	4	M16
	60	14.5	120	38	145	8	M16
	80	14.5	135	46	160	8	M16
	100	14.5	160	71.5	190	8	M20
2.5	125	16	188	95	220	8	M24
	150	19	218	114	250	8	M24
	200	29	278	140	310	12	M24
	250	29	332	188	370	12	M27
	300	38	390	216	430	16	M27
	350	41	448	263	490	16	M30
	400	51	505	305	550	16	M33
	450	51	555	356	600	20	M33
	500	65	610	406	660	20	M33
	600	70	718	482	770	20	M36
	50	14.5	100	51	125	4	M16
	60	14.5	120	65	145	8	M16
	80	14.5	135	80	160	8	M16
	100	14.5	160	105	190	8	M20
	125	16	188	127	220	8	M24
	150	19	218	152	250	8	M24
4.0	200	29	282	203	320	12	M27
	250	29	345	254	385	12	M30
	300	38	408	305	405	16	M30
	350	41	465	350	510	16	M33
	400	51	535	400	585	16	M36
	450	51	560	450	610	20	M36
	500	65	612	500	670	20	M39
	600	70	750	600	795	20	M45

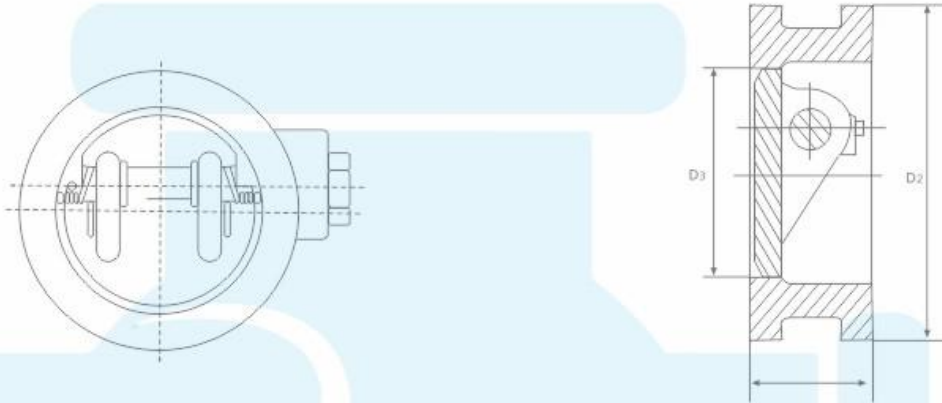
H76 TYPE CLAMP STAINLESS STEEL CHECK VALVE



Main dimensions and weight

PN(MPa)	DN(mm)	size (mm)				Weight (kg)	Piping flange (for reference)			
		L	d	D3	D2		Bolt hole center circle diameter D1	Number of bolts	Bolt diameter D	Bolt length L1
10	40	60	96	46	41	2	110	4	M16	150
	50	60	109	56	51	2	125	4	M16	150
	65	67	129	73	65	3	145	4	M16	155
	80	73	144	88	80	4	160	8	M16	160
	100	73	164	108	102	6	180	8	M16	165
	125	83	194	132	127	8	210	8	M16	180
	150	98	220	160	152	12	240	8	M20	205
	200	127	275	210	203	24	295	8	M20	235
	250	146	330	266	254	35	350	12	M20	255
	300	181	380	310	305	48	400	12	M20	290
	350	184	440	355	350	78	460	16	M20	295
	400	198	493	405	400	106	515	16	M24	310
	450	203	543	455	450	135	565	20	M24	325
	500	219	598	505	500	165	620	20	M24	345
	600	222	698	605	600	260	725	20	M24	355
1.6	700	305	811	700	695	360	840	24	M27	440
	800	305	918	800	796	540	950	24	M30	450
	900	368	1018	903	898	620	1050	28	M30	520
	1000	432	1124	1055	1050	880	1160	28	M33	590
	1200	524	1340	1205	1200	1380	1380	32	M36	695
	40	60	96	46	41	2	110	4	M16	150
	50	60	109	56	51	2	125	4	M16	150
	65	67	129	73	65	3	145	4	M16	155
	80	73	144	88	80	4	160	8	M16	160
	100	73	164	108	102	6	180	8	M16	165
	125	83	194	132	127	8	210	8	M16	180
	150	98	220	160	152	13	240	8	M20	205
	200	127	275	210	203	24	295	12	M20	235
	250	146	333	266	254	37	355	12	M24	265
	300	181	288	310	305	50	410	12	M24	305
	350	184	448	355	350	80	470	16	M24	310
2.5	400	198	498	405	400	110	525	16	M27	330
	450	203	558	455	450	145	585	20	M27	345
	500	219	630	505	500	180	650	20	M30	370
	600	222	734	605	600	280	770	20	M33	380
	700	305	802	700	695	380	840	24	M33	470
	800	305	912	800	796	560	950	24	M36	475
	900	368	1012	903	898	640	1050	28	M36	545
	1000	432	1126	1055	1050	900	1170	28	M39	620
	1200	524	1340	1205	1200	1400	1390	32	M45	735
	40	60	96	46	41	2	110	4	M16	150
	50	60	109	56	51	2	125	4	M16	150
	65	67	129	73	65	3	145	4	M16	160
	80	73	144	88	80	4	160	8	M16	170
	100	73	170	108	102	6	190	8	M20	180
	125	83	198	132	127	8	220	8	M24	205
	150	98	228	160	152	14	250	8	M24	220
	200	127	288	210	203	27	310	12	M24	255
	250	146	343	266	254	42	370	12	M27	285
	300	181	403	310	305	54	430	12	M27	325
	350	184	460	355	350	86	490	16	M30	340
	400	198	520	405	400	120	550	16	M33	360
	450	203	565	455	450	150	600	20	M33	375
	500	219	622	505	500	200	660	20	M33	395
	600	222	732	605	600	340	770	20	M36	410
	700	305	831	700	695	400	875	24	M39	500
	800	305	942	800	796	580	990	24	M45	520
	900	368	1040	903	898	660	1090	28	M45	590
	1000	432	1155	1055	1050	960	1210	28	M52	675
	1200	524	1365	1205	1200	1440	1420	32	M52	790

H77X/H-TYPE CLAMP CHECK VALVE



Main technique parameter

Model	PN(MPa)	PS(MPa)		Working temperature (°C)	Applicable medium
		Case	Seal		
H77X H77H H77Y H77W	1.0	1.5 Times the nominal pressure at room temperature	1.1 Times the nominal pressure at room temperature	Soft seal: <80 Hard seal: <450	Water, gas, oil, nitric acid, etc.
	1.6				
	2.5				
	4.0				
	6.4				

Main parts material

Part name	Material				
	H77X- ^{10C, 25} / _{16, 40}	H77H- ^{16C, 40} / _{25, 64}	H77Y- ^{25I} / _{40I} 64I	H77W- ^{16C, 25} / _{25C, 40}	H7W- ^{10P, 25P} / _{16P, 40P}
Body, disc	Cast steel WCB		Cr-Mo steel	Cast steel WCB	0Cr18Ni90
Stem	2Cr13	0Cr18Ni9		2Cr13	
Body Seal	-	Built-up welding alloy welds	Built-up welding alloy welds	-	-
Help off spring	0Cr18Ni9	Heat-resistant alloy			0Cr18Ni90

Main external dimension

DN(mm)	L	D2	D3		DN(mm)	L	D2	D3	
			H77X	H77H H77Y H77W				H77X	H77H H77Y H77W
50	43	100	43	46	400	140	485	376	390
80	64	135	71	80	450	152	545	427	427
100	64	155	91.5	94	500	152	608	479	490
125	70	185	115	118	600	178	718	579	588
150	76	210	141	145	700	229	800	675	686
200	89	265	191	200	800	241	905	774	784
250	114	320	230	250	900	241	1005	875	-
300	114	375	290	300	1000	300	1115	974	-
350	127	435	340	340	1200	350	1325	1164	-

LOW TEMPERATURE CHECK VALVE

DH41F-40P

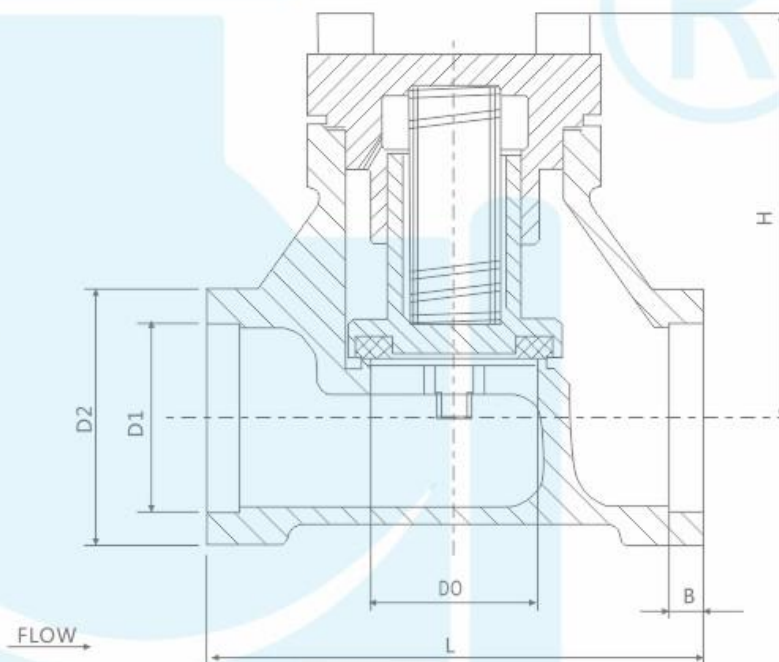
Product specification

Nominal pressure: 4.0 Mpa

Design temperature: 196 °C ~ + 80 °C

Applicable medium: LNG, LO₂, LN₂, LAr, CO₂

Connection mode: socket welding



CHECK VALVE SERIES

RUITONG VALVE

PN40 Main external and connection dimension

Unit:mm

Type	H	L	D0	D1	D2	B
DH-10	55	60	Φ13	Φ14.5	Φ24	6
DH-15	62	65	Φ15	Φ18.5	Φ29.5	6
DH-20	70	80	Φ20	Φ25.5	Φ36	8
DH-25	77	90	Φ25	Φ32.5	Φ43.5	8
DH-32	89	105	Φ32	Φ38.5	Φ53	8
DH-40	98	120	Φ40	Φ45.5	Φ62	8
DH-50	111	140	Φ50	Φ57.5	Φ72	10