



**MVC FACTORY**

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# WAFER CHECK VALVE

**MVC VALVES.**

HQ Add: 1150 NW 72ND AVE TOWER 1 STE 455 #18087  
MIAMI, FL 331261, USA

## MVC Industrial Valves

In order to efficiently serve our customers, we have opened MVC in USA. All this infrastructure enables us to serve the market of North America, Central America, South America, Europe and Africa.

It is fully committed to promoting technological development in the fields of low temperature, high temperature, high pressure air sealing, low torque and minimal leakage.

In 2012, we established factory in China. With extensive application experience and comprehensive capabilities, we provide tailor-made solutions for your valve automation needs.



## Quality System

MVC's management team adheres to strict policies ensuring that no defects occur in the valves used for industrial services. To maintain this discipline, we enforce internal regulations and a robust working process system. Third parties and customers are regularly invited to audit and approve our system.

MVC holds ISO9001, API6D, CE, TS, and other key certifications. All raw materials undergo re-testing for properties and mechanical performance upon arrival at our factory to ensure they meet machining standards. Non-destructive testing (NDE), including UT, MT, PT, and RT, is conducted by our quality control department during or before machining.

Every valve undergoes shell and sealing hydraulic tests, as well as air sealing tests. For valves used in special applications, additional tests such as fugitive emission, high/low temperature cycling, life, fire safety, cryogenic, and cleanliness tests after degreasing are available upon client request.



# PRODUCT DISPLAY



External Double-disc swing check valve



Built-in double-disc wafer swing check valve



Forging lug type double-disc swing check valve



Double valve check valve (Butt welding)



Flange axial flow check valve



High pressure lug built-in pair clip check valve (inclined disk type)



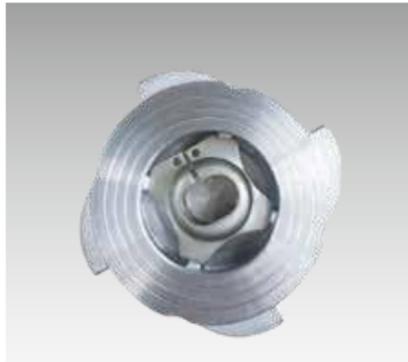
Flange lug type double-disc swing check valve



Wafer single-disc swing check valve long series



Swash plate wafer single-disc swing check valve



Wafer lift type check valve



Flanged ball type check valve



The flange to the clamp oblique disc check valve (with heavy hammer)



Wafer single-disc swing check valve short series



Wafer lift type check valve



Wafer lug type check valve



Clamp-on double-disc swing check valve



Swash plate collision check valve



Double closed check valve with single valve (Heavy hammer oil cylinder)

# Swing Check Valve contrast

### Use

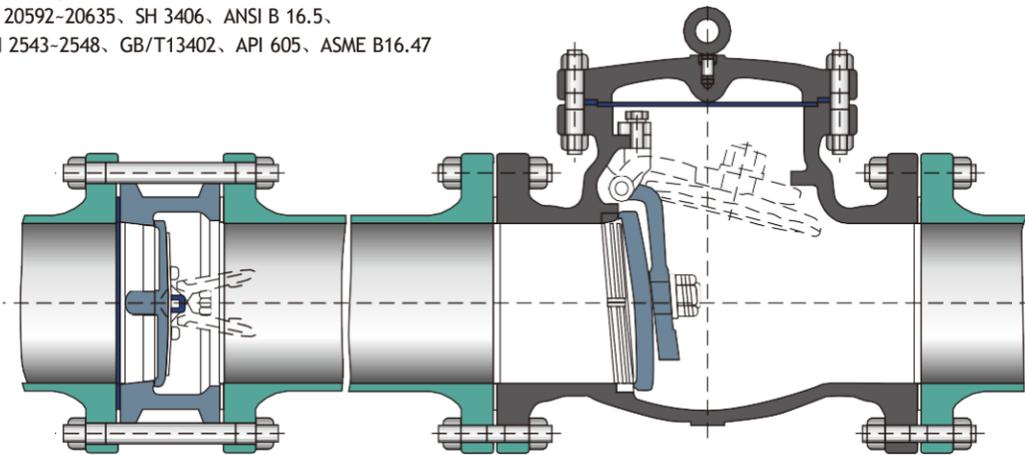
Wafer check valve is applicable for various pipelines with nominal pressure of PN1.0MPa-42.0MPa, Class150-2500 and nominal diameter of DN15-1200mm, NPS 1/2-48 and working temperature of -196-540°C to be used for protecting from medium back flowing. The different materials selection can apply to the medium involving water, steam, oils, nitric acid, acetic acid, strong oxidizing medium and urea etc.

### Standard and specification

- 1、 Design and manufacture: API 594、 API 6D、 JB/T8937;
- 2、 Structure length: API 594、 API 6D、 DIN 3202、 JB/T 8937;
- 3、 Pressure-temperature ratings: ANSI B16.34、 DIN 2401、 GB/T9124、 HG 20604、 HG 20625、 SH 3406、 JB/T74;
- 4、 Inspection and test: API 598、 JB/T9092;
- 5、 Pipe flange: JB/T74-90、 GB/T9112-9124、 HG 20592-20635、 SH 3406、 ANSI B 16.5、 DIN 2543-2548、 GB/T13402、 API 605、 ASME B16.47

### Structural feature

1. Short structural length, only 1/4-1/8 of that of traditional flanged check valve;
2. Low volume, light weight, only 1/4-1/20 of those of traditional flanged check valve;
3. Quick valve disc closedown, low water hammer pressure;
4. Applicable for and easily installed for vertical or horizontal pipelines;
5. Smooth flow passway and small fluid resistance;
6. Flexible action and good sealing performance;
7. Narrow valve travel and small closed ownimpact;
8. Integrated structure, simple and compact, in beautiful shape;
9. Long service life and good reliability.



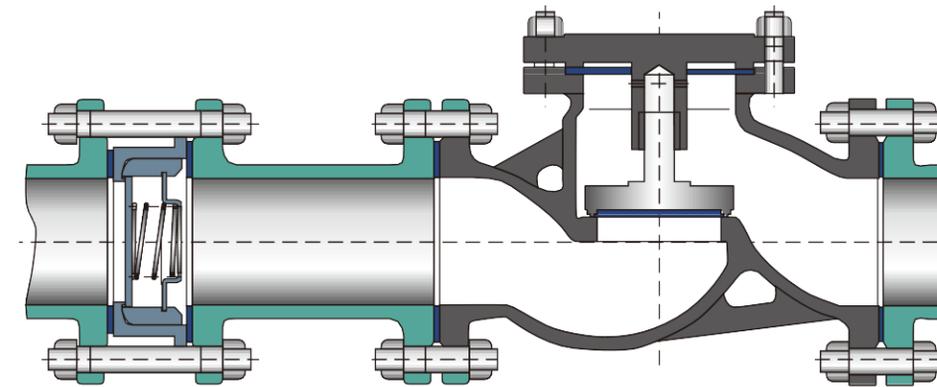
H76-type wafer double disc swing check valve

H44 Flange Swing Check Valve

### Swing Check Valve Contrast

Structure	H76-type wafer double disc swing check valve	H44 Flange Swing Check Valve
Water hammer pressure	Small disc a short trip, and a spring assisted closure, close the valve fast <i>H76 Type H44-type water hammer pressure is only 1/2 to 1/5</i>	Large valve travel, and require a longer closing time
Dimensions & Weight	Very short structural length, low volume and light mass gives a vast convenients for installation, portorage, storage and pipeline arrangement of valves, moreover, it can greatly reduce materials and cut construction cost. <i>H76 H44-type length of the structure type is only 1/4- 1/6, H76 Type H44 Type weighs only 1/4 to 1/10</i>	A long length of the structure, volume stupid big, heavy weight
Fluid resistance	Small, fluid resistance coefficient $\xi$ of 2.6 to 0.7, with the valve diameter increases, the fluid resistance coefficient decreases	low flow resistance coefficient $\xi$ is 1.3-3, but under the condition of low pressure, the valve disc can not be completely opened, high fluid resistance. The resistance will be increased as the augmentation of valve size.
Installation	Can be installed in horizontal or vertical installation, light weight, donot have to set the bearings for the valve	Can be installed in horizontal or vertical installation, the weight of heavy large diameter valves, bearings needs to be set
Opening pressure	Small valve under pressureina small can fully open	Larger in larger valve can be fully opened under pressure
Reliability	The valve body is of integrated structure, simple and compact, small closedown impact, low water hammer pressure, long service life and good reliability	The valve is closed and the huge impact of water hammer pressure is easy to damage the valve

# Lift Check Valve contrast



H71-type wafer lift check valve

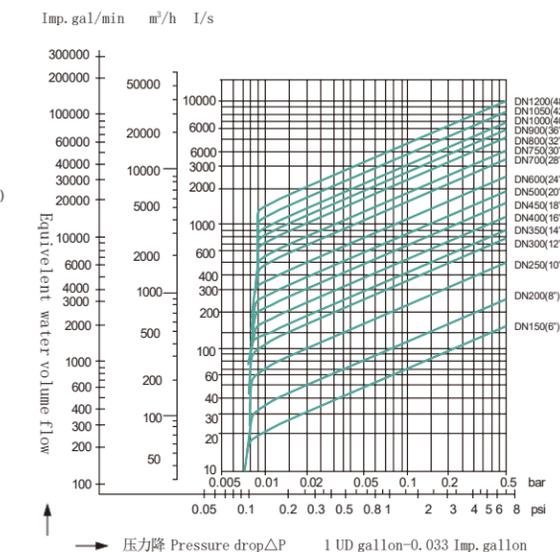
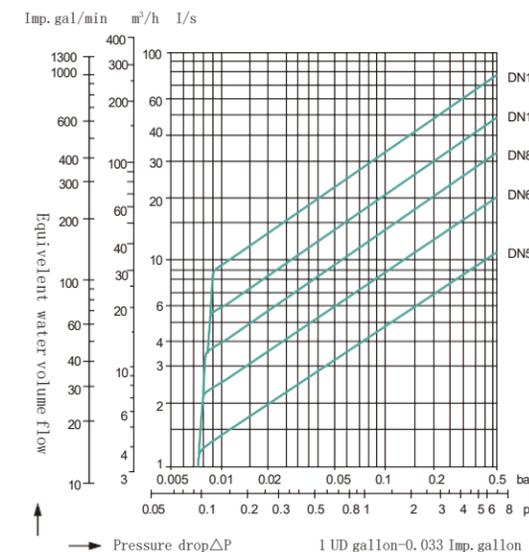
H41 Flange lift Check Valve

### Elevating check valve contrast

Structure	H71-type wafer lift check valve	H41 Flange lift Check Valve
Water hammer pressure	Small valve stroke is short, compact disc, and a spring assisted closure,off valve fast	Small disc a short trip, but no spring assisted closure
Dimensions & Weight	Very short structural length,low volume and light mass gives a Vast convenients for installation, portorage, storage and pipeline arrangement of valves, moreover, it can greatly reduce materials and cut construction cost. <i>Only the length of the structure type H71 H41 type 1/4-1/8, H71Type H41Type weighs only 1/7- 1/20</i>	Length of the structure is very long, bulky, heavy weight
Fluid resistance	Large,fluid resistance coefficient $\xi$ is 6.4- 2.8	Large, fluid resistance coefficient $\xi$ is 12-6
Installation	Can be installed in horizontal or vertical installation, lightweight,easy to install	Only horizontal installation, the larger the valve diameter heavy weight, difficult installation
Opening pressure	Small valve under pressure in a smal can fully open	Small, the weight of the valve body and valve cover from pressure to fully open the vavle flap
Reliability	The valve body is of integrated stucture,simple and compact, small closedown irr act, low water hammer pressure, long service life an good reliability	High reliability, but the valve body and valve cover from the two-body composition, more than a potential the leak

### Hydromechanics Performance

H76 to clamps the double petal to tum on lathe opens the type check valve the rate of volume flow and the pressure drop relations

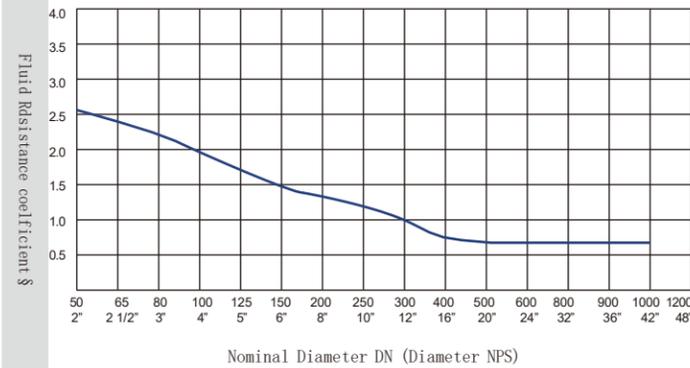


The hydromechanics performance/to clamps the double petal to turn on lathe opens the type check valve the fluid resistance coefficient

V<sub>w</sub> volume flow of water equivalent volume of fluid flow and the actual press-type conversionV;

$$V_w = \sqrt{\frac{P}{1000}} \cdot V$$

式中: V<sub>w</sub>-水的当量体积流量, l/s ;  
 ρ -流体密度, kg/m³;  
 V-实际流体的体积流量, l/s。  
 Where: V<sub>w</sub>-equivalent volume rate of flow,l/s;  
 ρ -fluid density,kg/m³;  
 V-Actual volume rate of flow,l/s.



The hydromechanics performance/to clamps the double petal to turn on lathe opens the type check valve fluid resistance coefficient, the discharge coefficient and the opening pressure

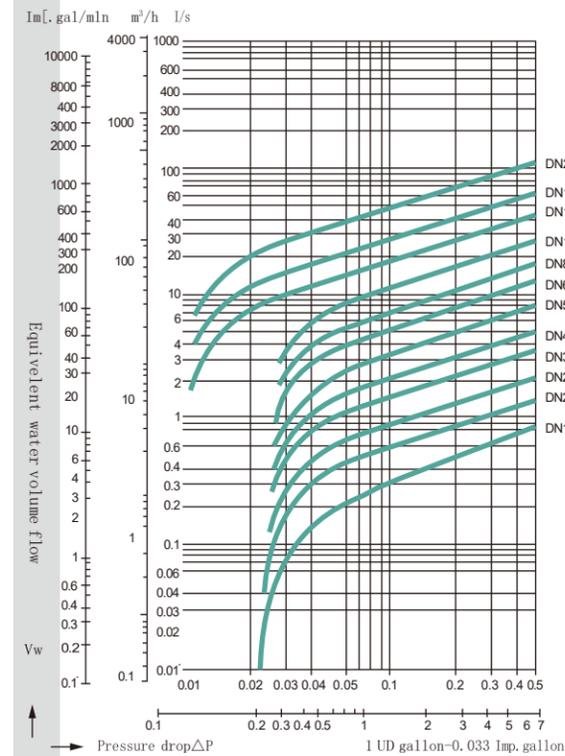
Normal Diameter		When the valve is full open fluid resistance coefficient ξ	Room temperature, water flow when the valve opening coefficient			Fluid flow		
DN	NPS		KV (m³/h)	Cv ( U. S)	Cv (U. K)	↑ open the pressure approximation Kpa	→	↓
50	2	2.6	63	74	62	2	1	
65	2 1/2	2.4	109	128	107	2	1	
80	3	2.3	172	201	169	2	1	
100	4	2.0	289	338	283	2	1	
125	5	1.8	476	557	466	2	1	
150	6	1.5	750	878	735	2	1	
200	8	1.3	1432	1675	1403	2	1	
250	10	1.2	2330	2726	2283	2	1	
300	12	1.0	3676	4301	3602	2	1	
350	14	0.9	5274	6171	5169	2	1	
400	16	0.8	7306	8548	7160	3	1	
450	18	0.8	9246	10818	9061	3	1	
500	20	0.8	11415	13356	11187	3	1	
600	24	0.7	17573	20560	17222	3	1	
700	28	0.7	23919	27985	23441	4	1	
750	30	0.7	27458	32126	26909	4	1	
800	32	0.7	31241	36552	30616	4	1	
900	36	0.7	39539	46261	38748	4	1	
1000	40	0.7	48814	57112	47838	4	1	
1050	42	0.7	53817	62966	52741	4	1	
1200	48	0.7	70292	82242	68886	4	1	

The hydromechanics performance/to clamps the single-lobe elevating check valve the rate of volume flow and the pressure drop relations

V<sub>w</sub> volume flow of water equivalent volume of fluid flow and the actual press-type conversionV;

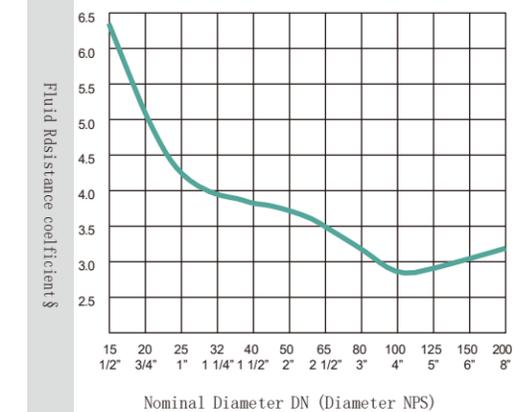
$$V_w = \sqrt{\frac{P}{1000}} \cdot V$$

Where:  
 V<sub>w</sub>-equivalent volume rate of flow, l/s;  
 ρ -fluid density,kg/m³;  
 V-Actual volume rate of flow,l/s.



Hydromechanics performance

H71-type wafer lift check valve flow resistance coefficient



The hydromechanics performance/to clamps the single-lobe elevating check valve fluid Resistance coefficient, the discharge coefficient and the opening pressure

Normal Diameter		When the valve is full open fluid resistance coefficient ξ	Room temperature, water flow when the valve opening coefficient			Fluid flow		
DN	NPS		KV (m³/h)	Cv ( U. S)	Cv (U. K)	↑ open the pressure approximation Kpa	↓	→
15	1/2	6.4	2.6	3.0	2.5	3	2	2.5
20	3/4	5.1	6.4	7.5	6.3	3	2	2.5
25	1	4.1	12.6	14.8	12.3	3	2	2.5
32	1 1/4	4.1	19.7	23.1	19.3	3	2	2.5
40	1 1/2	3.8	29.5	34.5	28.9	3	2	2.5
50	2	3.5	54.6	63.9	53.5	3	2	2.5
65	2 1/2	3.5	85.4	99.9	83.7	3	2	2.5
80	3	3.2	128	150	125	3	2	2.5
100	4	2.8	244	286	249	3	2	2.5
125	5	2.9	375	439	368	3	1	2.2
150	6	3.1	522	611	512	3	1	2.2
200	8	3.2	915	1070	897	3	1	2.2
250	10	3.1	1295	1465	1198	3	1	2.2

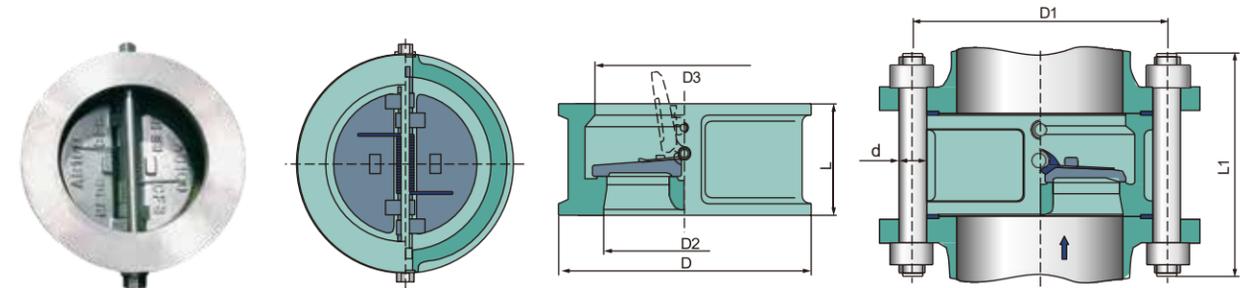
# API SERIES/GB SERIES



## DOUBLE-DISC SWING CHECK VALVE



### Double-disc swing check valve (API) external



Main Connection Dimension

Pressure level	Size		Dimensions (mm)				Weight (kg)	Pipe flange (for reference)					
	DN	NPS	L	D	D2	D3		D1	Bolt Quantity	Bolt diameter d		Bolt length L1	
										in	mm	RF	RTJ
Class 150 PN20 ASME B16. 5	40	1 1/2	60	83	38	46	2	98.5	4	1/2	M14	130	145
	50	2	60	103	51	58	2.5	120.5	4	5/8	M16	140	155
	65	2 1/2	67	122	65	73	3	139.5	4	5/8	M16	150	165
	80	3	73	135	80	88	4	152.5	4	5/8	M16	160	175
	100	4	73	173	102	108	6	190.5	8	5/8	M16	170	185
	125	5	86	195	127	132	8	216.0	8	3/4	M20	190	205
	150	6	98	220	152	160	13	241.5	8	3/4	M20	205	220
	200	8	127	277	203	210	25	298.5	8	3/4	M20	240	255
	250	10	146	337	254	266	39	362.0	12	7/8	M24	270	285
	300	12	181	407	305	310	54	432.0	12	7/8	M24	310	325
Class 150 PN20 ASME B16. 47B、 API 605、 GB 13402	350	14	184	448	350	355	80	476.0	12	1	M27	325	340
	400	16	191	512	400	405	117	540.0	16	1	M27	340	355
	450	18	203	547	450	455	138	578.0	16	1 1/8	M30	365	380
	500	20	219	604	500	505	163	635.0	20	1 1/8	M30	385	400
	600	24	222	715	600	605	331	749.5	20	1 1/4	M33	405	420
	650	26	222	722	630	650	360	744.5	36	3/4	M20	365	-
	700	28	305	773	700	700	380	795.5	40	3/4	M20	455	-
	750	30	305	824	746	750	425	846.0	44	3/4	M20	455	-
	800	32	305	878	796	800	560	900.0	48	3/4	M20	460	-
	900	36	368	983	898	903	640	1009.5	44	7/8	M24	540	-
1000	40	432	1090	976	985	870	1120.5	44	1	M27	620	-	
1050	42	432	1142	1050	1055	960	1171.5	48	1	M27	625	-	
1100	44	432	1193	1070	1070	1150	1222.0	52	1	M27	630	-	
1200	46	524	1302	1200	1205	1400	1335.0	44	1 1/8	M30	740	-	
1350	54	591	1460	1312	1315	2245	1492.0	56	1 1/8	M30	820	-	
1400	56	591	1512	1360	1370	2830	1543.0	60	1 1/8	M30	820	-	
1500	60	660	1628	1458	1470	3200	1662.0	52	1 1/4	M33	900	-	

# Double-disc swing check valve (API) external

Main Connection Dimension													
Pressure level	Size		Dimensions (mm)				Weight (kg)	Pipe flange (for reference)					
								D1	Bolt Quantity	Bolt diameter d		Bolt length L1	
	DN	NPS	L	D	D2	D3				in	mm	RF	RTJ
ASME B16.47B、 API 605、 GB/T13402	1650	66	787	1881	1630	1663	5345	1930.5	52	1 1/4	M45x3	1075	-
	1800	72	851	2046	1780	1818	6100	2095.5	60	1 1/4	M45x3	1145	-
	1950	78	927	2204	1930	1973	8185	2260.5	64	2	M52x3	1250	-
	2100	84	1041	2369	2080	2115	10220	2425.0	64	2	M52x3	1365	-
Class 150 PN20	650	26	222	770	633	650	380	806.5	24	1 1/4	M33	450	-
	700	28	305	827	700	700	400	863.5	28	1 1/4	M33	535	-
	750	30	305	878	746	750	440	914.5	28	1 1/4	M33	545	-
	800	32	305	935	796	800	580	978	28	1 1/2	M39x3	570	-
	900	36	368	1045	874	894	660	1086	32	1 1/2	M39x3	650	-
	1000	40	432	1158	976	985	890	1200	36	1 1/2	M39x3	710	-
	1050	42	432	1213	1050	1055	980	1257.5	36	1 1/2	M39x3	730	-
ASME B16.47A MSS SP-44	1100	44	432	1274	1070	1070	1170	1314.5	40	1 1/2	M39x3	730	-
	1200	48	524	1380	1166	1205	1450	1422.5	44	1 1/2	M39x3	840	-
	1350	54	591	1545	1312	1315	2300	1594	44	1 3/4	M45x3	950	-
	1400	56	591	1602	1360	1370	2850	1651	48	1 3/4	M45x3	955	-
	1500	60	660	1710	1458	1470	3225	1759	52	1 3/4	M45x3	1040	-
Class 300 PN50	50	2	60	110	51	58	3	127.0	8	5/8	M16	155	175
	65	2 1/2	70	128	65	73	4	149.0	8	3/4	M20	175	195
	80	3	73	147	80	88	6	168.5	8	3/4	M20	190	210
	100	4	73	179	102	108	8	200.0	8	3/4	M20	195	215
	125	5	86	214	127	132	15	235.0	8	3/4	M20	215	235
	150	6	98	249	152	160	18	270.0	12	3/4	M20	230	250
	200	8	127	305	203	210	31	330.0	12	7/8	M24	280	300
	250	10	146	359	254	266	51	387.5	16	1	M27	315	335
	300	12	181	420	305	310	77	451.0	16	1 1/8	M30	365	385
	350	14	222	483	350	355	117	514.5	20	1 1/8	M30	410	430
ASME B16.5	400	16	232	537	400	405	190	571.5	20	1 1/4	M33	435	455
	450	18	264	594	450	455	200	628.5	24	1 1/4	M33	475	495
	500	20	292	652	500	505	265	686.0	24	1 1/4	M33	510	535
	600	24	318	772	600	608	410	813.0	24	1 1/2	M39x3	560	585
	650	26	356	767	633	640	565	803	32	1 1/4	M33	625	-
	700	28	368	821	685	685	585	857	36	1 1/4	M33	635	-
	750	30	368	882	735	740	660	921.0	38	1 3/8	M36x3	650	-
	800	32	368	936	784	784	970	978	32	1 1/2	M39x3	675	-
Class 300 PN50	900	36	483	1044	873	880	1020	1089.0	32	1 5/8	M42x3	800	-
	1000	40	546	1146	976	985	1420	1191	40	1 5/8	M42x3	885	-
	1050	42	568	1196	1035	1045	1540	1244.5	36	1 3/4	M45x3	920	-
	1200	48	629	1365	1166	1190	2260	1416.0	40	1 7/8	M48x3	1010	-
	1350	54	718	1526	1312	1315	3102	1578	48	1 7/8	M48x3	1140	-
	1500	60	838	1704	1458	1470	4315	1764	40	2 1/4	M56x3	1280	-

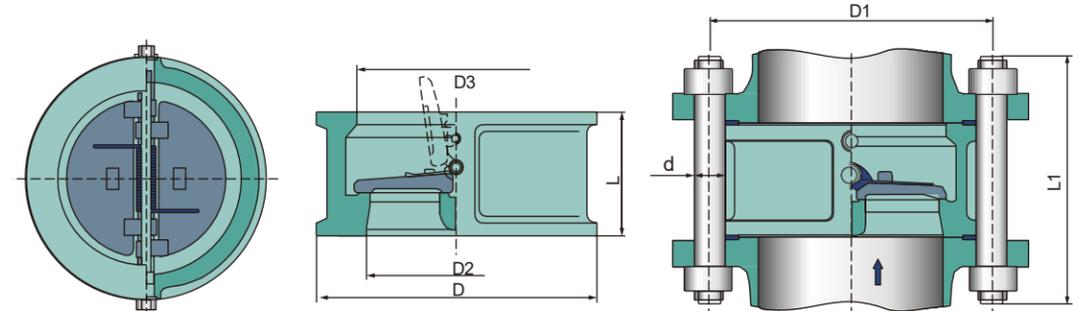
# Double-disc swing check valve (API) external

Main Connection Dimension													
Pressure level	Size		Dimensions (mm)				Weight (kg)	Pipe flange (for reference)					
								D1	Bolt Quantity	Bolt diameter d		Bolt length L1	
	DN	NPS	L	D	D2	D3				in	mm	RF	RTJ
Class 300 PN50	650	26	356	831	633	640	580	876	28	1 5/8	M42x3	625	-
	700	28	368	895	685	685	600	940	28	1 5/8	M42x3	650	-
	750	30	368	949	735	740	680	997	28	1 3/4	M45x3	665	-
	800	32	368	1003	784	784	990	1054	28	1 7/8	M48x3	685	-
ASME B16.47A MSS SP-44	900	36	483	1113	873	880	1050	1168.5	32	2	M52x3	820	-
	1000	40	546	1110	976	985	1400	1156.0	32	1 5/8	M42x3	885	-
	1050	42	568	1161	1035	1045	1520	1206.5	32	1 5/8	M42x3	915	-
	1200	48	629	1320	1166	1190	2250	1371.5	32	1 7/8	M48x3	1015	-
	1350	54	718	1489	1312	1315	3080	1549.5	28	2 1/4	M56x3	1160	-
	1500	60	838	1642	1458	1470	4300	1702	32	2 1/4	M56x3	1305	-
Class 600 PN110	50	2	60	110	51	58	4	127.0	8	5/8	M16	175	180
	65	2 1/2	67	128	65	73	5	149.0	8	3/4	M20	195	200
	80	3	73	147	80	88	8	168.5	8	3/4	M20	210	215
	100	4	79	191	102	108	11	216.0	8	7/8	M24	235	240
	125	5	105	239	127	136	20	267.0	8	1	M27	280	285
	150	6	136	264	152	162	26	292.0	12	1	M27	320	325
	200	8	165	318	200	212	55	349.0	12	1 1/8	M30	370	375
	250	10	213	398	250	266	95	432.0	16	1 1/4	M33	440	445
	300	12	229	455	305	312	140	489.0	20	1 1/4	M33	460	465
	350	14	273	490	337	355	223	527.0	20	1 3/8	M36x3	520	525
ASME B16.5	400	16	305	562	387	400	360	603.0	20	1 1/2	M39x3	575	580
	450	18	362	610	438	450	395	654.0	20	1 5/8	M42x3	650	655
	500	20	368	680	489	500	518	724.0	24	1 5/8	M42x3	670	680
	600	24	438	786	591	600	836	838.0	24	1 7/8	M48x3	780	795
	650	26	457	761	633	640	950	806.5	28	1 5/8	M42x3	790	805
	700	28	483	815	684	690	1215	863.5	28	1 3/4	M45x3	830	845
	750	30	505	875	735	740	1378	927	28	1 7/8	M48x3	875	890
	800	32	533	928	779	784	1643	984	28	2	M52x3	920	940
Class 600 PN110	900	36	635	1045	874	880	2120	1105	28	2 1/4	M56x3	1065	1085
	650	26	457	863	633	640	980	914.5	28	1 7/8	M48x3	795	810
	700	28	483	910	684	690	1250	965	28	2	M52x3	835	850
	750	30	505	967	735	740	1420	1022.5	28	2	M52x3	860	905
ASME B16.47A MSS SP-44	800	32	533	1020	779	784	1700	1079.5	28	2 1/4	M56x3	905	925
	900	36	635	1126	874	880	2200	1194	28	2 1/2	M64x3	1035	1055
	1000	40	660	1153	976	985	2650	1213	32	2 1/4	M56x3	1115	-
	1050	42	702	1215	1020	1030	3135	1283	28	2 1/2	M64x3	1190	-
Class 900 PN150	1200	48	787	1386	1166	1170	3755	1460.5	32	2 3/4	M70x3	1330	-
	50	2	70	140	51	58	8	165.0	8	7/8	M24	225	230
	65	1 1/2	83	162	65	73	11	190.5	8	1	M27	250	255
	80	3	83	165	80	90	14	190.5	8	7/8	M24	240	245
ASME B16.5	100	4	102	204	102	108	20	235.0	8	1 1/8	M30	285	290

## Double-disc swing check valve (API) external

Main Connection Dimension														
Pressure level	Size		Dimensions (mm)				Weight (kg)	Pipe flange (for reference)						
								D1	Bolt Quantity	Bolt diameter d		Bolt length L1		
	DN	NPS	L	D	D2	D3				in	mm	RF	RTJ	
Class 900 PN 150 ASME B16.5	125	5	110	245	127	136	30	279.5	8	1 1/4	M33	310	315	
	150	6	159	286	150	162	42	317.5	12	1 1/8	M30	365	370	
	200	8	206	356	200	212	84	393.5	12	1 3/8	M36x3	440	445	
	250	10	241	432	250	266	145	470.0	16	1 3/8	M36x3	490	495	
	300	12	292	495	305	312	220	533.5	20	1 3/8	M36x3	560	565	
	350	14	356	518	337	355	350	559.0	20	1 1/2	M39x3	645	655	
	400	16	384	572	387	400	470	616.0	20	1 5/8	M42x3	685	695	
	450	18	451	635	438	450	605	686.0	20	1 7/8	M48x3	790	805	
CLASS 900 PN 150 ASME B16.47B API 605、 GB/T 13402	500	20	451	695	487	496	820	749.5	20	2	M52x3	810	825	
	600	24	495	835	591	600	1050	901.5	20	2 1/2	M64x3	945	965	
	650	26	533	835	617	630	1182	901.5	20	2 1/2	M64x3	955	1050	
	700	28	572	898	665	680	1441	971.5	20	2 3/4	M70x3	1030	1145	
	750	30	635	955	712	735	1578	1035	20	3	M76x3	1125	1180	
	800	32	660	1012	760	784	2030	1092	20	3	M76x3	1160	1260	
	900	36	718	1120	855	865	2607	1200	24	3	M76x3	1240	995	
	Class 900 PN 150 ASME B16.47A MSS SP-44	650	26	533	879	617	630	1200	952.5	20	2 3/4	M70x3	975	1055
700		28	572	943	665	680	1460	1022.5	20	3	M76x3	1035	1055	
750		30	635	1006	712	735	1600	1086	20	3	M76x3	1110	1130	
800		32	660	1070	760	784	2050	1155.5	20	3 1/4	M82x3	1165	1185	
900		36	718	1195	855	865	2607	1289	20	3 1/2	M90x3	1265	1285	
1000		40	762	1246	950	965	2930	1340	24	3 1/2	M90x3	1360	-	
1050		42	787	1296	995	1015	3310	1390.5	24	3 1/2	M90x3	1400	-	
1200		48	851	1483	1140	1160	4415	1587.5	24	4	M100x3	1545	-	
Class 1500 PN 260 ASME B16.5	50	2	70	140	51	58	8	165.0	8	7/8	M24	225	230	
	65	2 1/2	83	162	65	73	11	190.5	8	1	M27	250	255	
	80	3	83	172	80	90	19	203.0	8	1 1/8	M30	270	275	
	100	4	102	207	102	108	26	241.5	8	1 1/4	M33	310	315	
	125	5	110	252	127	136	51	292.0	8	1 1/2	M39x3	370	375	
	150	6	159	280	150	162	68	317.5	12	1 3/8	M36x3	430	440	
	200	8	206	350	200	212	130	393.5	12	1 5/8	M42x3	510	520	
	250	10	248	433	254	266	210	482.5	12	1 7/8	M48x3	600	610	
	300	12	305	518	305	312	384	571.5	16	2	M52x3	690	715	
	350	14	356	576	337	355	550	635.0	16	2 1/4	M56x3	775	800	
	400	16	384	639	387	400	635	705.0	16	2 1/2	M64x3	850	880	
	450	18	468	701	430	438	790	774.5	16	1 3/4	M70x3	955	985	
Class 2500 PN 420 ASME B16.5	500	20	533	753	478	487	1275	832	16	3	M76x3	1065	1095	
	600	24	559	897	570	578	2710	990.5	16	3 1/2	M90x3	1170	1205	
	50	2	70	143	42	48	10	171.5	8	1	M27	255	260	
	65	1 1/2	83	166	52	58	18	197.0	8	1 1/8	M30	290	305	
	80	3	86	194	62	68	26	228.5	8	1 1/4	M33	320	330	
	100	4	105	232	88	94	40	273.0	8	1 1/2	M39x3	370	380	
	125	5	110	277	100	106	59	324.0	8	1 3/4	M45x3	420	435	
	150	6	159	315	150	162	90	368.5	8	2	M52x3	515	530	
	200	8	206	385	180	186	150	438.0	12	2	M52x3	600	620	
	250	10	254	474	225	232	240	539.5	12	2 1/2	M64x3	750	775	
	300	12	305	547	266	272	440	619.0	12	2 3/4	M70x3	855	885	

## Double-disc swing check valve (GB)



Main Connection Dimension										
Nominal pressure	Nominal diameter	Dimensions (mm)				Weight (kg)	Pipe flange (for reference)			
		L	D	D2	D3		D1	Bolt Quantity	Bolt diameter d	Bolt length L1
PN10	50	60	108	51	58	2	125	4	M16	150
	65	67	128	65	73	3	145	4	M16	155
	80	73	142	80	88	4	160	8	M16	160
	100	73	162	102	108	6	180	8	M16	165
	125	86	192	127	132	8	210	8	M16	180
	150	98	218	152	160	13	240	8	M20	205
	200	127	273	203	210	24	295	8	M20	235
	250	146	328	254	266	37	350	12	M20	255
	300	181	378	305	310	50	400	12	M20	290
	350	184	438	350	355	76	460	16	M20	295
	400	191	489	400	405	110	515	16	M24	310
	450	203	539	450	455	135	565	20	M24	325
	500	219	594	500	505	158	620	20	M24	345
	6Q0	222	696	600	605	320	725	20	M27	355
	700	305	811	695	700	380	840	24	M27	440
	800	305	918	796	800	560	950	24	M30	450
	900	368	1018	898	903	640	1050	28	M30	520
	1000	432	1124	976	985	900	1160	28	M33	590
	1200	524	1340	1200	1205	1400	1380	32	M36	695
	PN16	50	60	108	51	58	2	125	4	M16
65		67	128	65	73	3	145	4	M16	155
80		73	142	80	88	4	160	8	M16	160
100		73	162	102	108	6	180	8	M16	165
125		86	192	127	132	8	210	8	M16	180
150		98	218	152	160	13	240	8	M20	205
200		127	273	203	210	24	295	12	M20	235
250		146	329	254	266	37	355	12	M24	265
300		181	384	305	310	50	410	12	M24	305
350		184	444	350	355	76	470	16	M24	310
400		191	496	400	405	110	525	16	M27	330
450		203	556	450	455	135	585	20	M27	345
500		219	618	500	505	158	650	20	M30	370
600		222	732	600	605	320	770	20	M33	380
700		305	802	695	700	380	840	24	M33	470
800		305	912	796	800	560	950	24	M36	475
900		368	1012	898	903	640	1050	28	M36	545
1000		432	1126	976	985	900	1170	28	M39	620
1200		524	1340	1200	1205	1400	1390	32	M45	735

## Double-disc swing check valve (GB)

Main Connection Dimension

Nominal pressure	Nominal diameter	Dimensions (mm)				Weight (kg)	Pipe flange (for reference)			
		L	D	D2	D3		D1	Bolt Quantity	Bolt diameter d	Bolt length L1
PN25	50	60	108	51	58	2	125	4	M16	150
	65	67	128	65	73	3	145	8	M16	160
	80	73	142	80	88	4	160	8	M16	170
	100	73	168	102	108	6	190	8	M20	180
	125	86	194	127	132	8	220	12	M24	205
	150	98	224	152	160	14	250	12	M24	220
	200	127	284	203	210	27	310	16	M24	255
	250	146	341	254	266	42	370	16	M27	285
	300	181	401	305	310	54	430	16	M27	325
	350	184	458	350	355	86	490	20	M30	340
	400	191	515	400	405	120	550	20	M33	360
	450	203	565	450	455	148	600	20	M33	375
	500	219	622	500	505	165	660	20	M33	395
	600	222	732	600	605	340	770	20	M36	410
	700	305	831	695	700	400	875	24	M39	500
	800	305	942	796	800	580	990	24	M45	520
900	368	1040	898	903	660	1090	28	M45	590	
1000	432	1155	976	985	960	1210	28	M52	675	
1200	524	1365	1200	1205	1440	1420	32	M52	790	

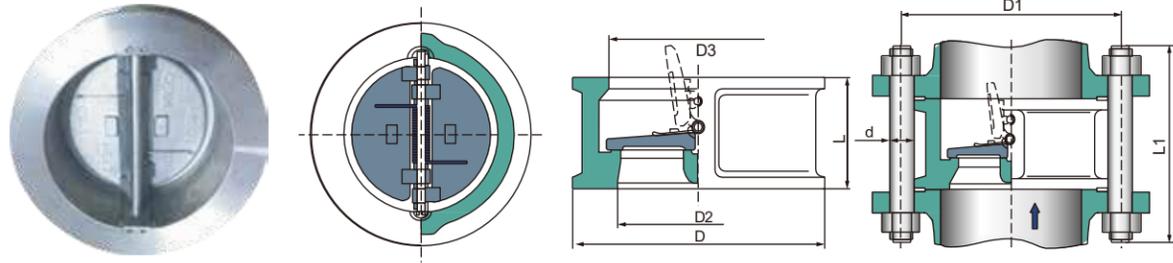
Nominal pressure	Nominal diameter	Dimensions (mm)				Weight (kg)	Pipe flange (for reference)					
		L	D	D2	D3		D1	Bolt Quantity	Bolt diameter d	Bolt length L1		
PN40	50	60	108	51	58	3	125	4	M16	150	-	
	65	67	128	65	73	4	145	8	M16	160	-	
	80	73	142	80	88	6	160	8	M16	170	-	
	100	73	168	102	108	8	190	8	M20	180	-	
	125	86	194	127	132	13	220	8	M24	205	-	
	150	98	224	152	160	16	250	8	M24	220	-	
	200	127	291	203	210	28	320	12	M27	270	-	
	250	146	353	254	266	49	385	12	M30	300	-	
	300	181	418	305	310	76	450	16	M30	345	-	
	350	222	475	350	355	114	510	16	M33	400	-	
	400	232	547	400	405	190	585	16	M36	425	-	
	450	264	572	450	455	200	610	20	M36	470	-	
	500	292	626	500	505	260	670	20	M39	505	-	
	600	318	745	600	608	404	795	20	M45	575	-	
	PN63	50	60	114	51	58	4	135	4	M20	170	185
		65	67	138	65	73	5	160	8	M20	180	195
80		73	148	80	88	7	170	8	M20	190	205	
100		79	174	102	108	10	200	8	M24	210	225	
125		105	211	127	132	16	240	8	M27	250	265	
150		136	248	152	162	20	280	8	M30	290	305	
200		165	310	200	212	38	345	12	M33	335	350	
250		213	362	250	266	62	400	12	M33	395	410	
300		229	422	305	310	100	460	16	M33	420	435	
350	273	487	350	355	160	525	16	M36	480	495		
400	305	541	400	405	260	585	16	M39	525	540		

## Double-disc swing check valve (GB)

Main Connection Dimension

Nominal pressure	Nominal diameter	Dimensions (mm)				Weight (kg)	Pipe flange (for reference)					
		L	D	D2	D3		D1	Bolt Quantity	Bolt diameter d	Bolt length L1		
PN100	50	60	120	51	58	5	145	4	M24	185	200	
	65	67	144	65	73	7	170	8	M24	195	210	
	80	73	154	80	88	10	180	8	M24	205	220	
	100	79	181	102	108	12	210	8	M27	225	240	
	125	105	218	127	132	19	250	8	M30	265	280	
	150	136	258	152	162	25	290	12	M30	305	320	
	200	165	324	200	212	56	360	12	M33	355	370	
	250	213	392	250	266	94	430	12	M36	425	440	
	300	229	456	305	312	142	500	16	M39	465	480	
	350	273	510	350	355	230	560	16	M45	535	550	
	400	305	570	400	405	366	620	16	M45	585	600	
	PN160 JB/T74~90	50	70	142	51	56	8	165	8	M22	205	220
		65	83	162	65	73	11	190	8	M27	245	260
		80	83	176	80	90	16	205	8	M27	250	265
		100	102	208	102	108	19	240	8	M30	280	295
		125	110	247	127	136	33	285	8	M36	335	350
150		159	280	150	162	40	318	12	M36	385	405	
200		206	356	203	212	84	400	12	M42	470	490	
250		241	435	250	266	146	485	12	M48	535	555	
300		292	520	305	312	230	570	16	M24	610	640	
PN 160 GB/T9112~9124, HG20592--20614		50	70	120	51	56	7	145	4	M24	210	225
	65	83	144	65	73	10	170	8	M24	235	250	
	80	83	154	80	90	14	180	8	M27	245	260	
	100	102	181	102	108	17	210	8	M30	280	295	
	125	110	218	127	136	28	250	8	M30	305	320	
	150	159	258	152	162	36	290	12	M33	365	385	
	200	206	325	203	212	78	360	12	M39	425	445	
	250	241	389	254	266	130	430	12	M39	495	515	
	300	292	459	305	312	210	500	16	M39	570	600	
	PN200 HG20592~20614	50	70	136	51	56	8	160	8	M22	215	230
65		83	174	65	73	16	203	8	M27	255	270	
80		83	198	80	90	22	230	8	M30	270	285	
100		102	254	102	108	35	292	8	M36	330	345	
125		110	280	127	136	50	318	12	M36	355	375	
150		159	316	152	162	78	360	12	M42	430	450	
200		206	390	203	212	120	440	12	M48	510	530	
250		248	518	254	266	220	572	16	M52	595	625	
PN250 HG20592~20614		50	70	124	51	56	8	150	8	M24	215	230
		65	83	154	65	73	14	180	8	M24	235	250
	80	83	171	80	90	20	200	8	M27	250	265	
	100	102	203	102	108	28	235	8	M30	290	305	
	125	110	243	127	136	44	275	12	M30	310	325	
	150	159	285	152	162	70	320	12	M33	385	405	
	200	206	359	203	212	110	400	12	M39	470	490	
	250	248	443	254	266	200	490	16	M45	560	580	
	300	305	540	305	312	350	590	16	M48	665	695	

# Double-disc swing check valve (API) built-in



Main Connection Dimension

Pressure level	Size		Dimensions (mm)				Weight (kg)	Pipe flange (for reference)						
	DN	NPS	L	D	D2	D3		D1	Bolt Quantity	Bolt diameter d		Bolt length L1		
										in	mm	RF	RTJ	
Class 150 PN20	50	2	60	103	51	61	2.5	120.5	4	5/8	M16	140	155	
	65	2 1/2	67	122	65	75	3	139.5	4	5/8	M16	150	165	
	80	3	73	135	80	92	4	152.5	4	5/8	M16	160	175	
	100	4	73	173	102	114	6	190.5	8	5/8	M16	170	185	
	125	5	86	195	127	140	8	216.0	8	3/4	M20	190	205	
	150	6	98	220	152	166	13	241.5	8	3/4	M20	205	220	
	ASME B16.5	200	8	127	277	203	210	25	298.5	8	3/4	M20	240	255
		250	10	146	337	254	266	39	362.0	12	7/8	M24	270	285
		300	12	181	407	305	310	54	432.0	12	7/8	M24	310	325
		350	14	184	448	350	355	80	476.0	12	1	M27	325	340
400		16	191	512	400	405	117	540.0	16	1	M27	340	355	
450		18	203	547	450	455	138	578.0	16	1 1/8	M30	365	380	
500		20	219	604	500	505	163	635.0	20	1 1/8	M30	385	400	
600		24	222	715	600	605	331	749.5	20	1 1/4	M33	405	420	
Class 150 PN20	650	26	222	722	630	650	360	744.5	36	3/4	M20	365	-	
	700	28	305	773	700	700	380	795.5	40	3/4	M20	455	-	
	750	30	305	824	746	750	425	846.0	44	3/4	M20	455	-	
	800	32	305	878	796	800	560	900.0	48	3/4	M20	460	-	
	900	36	368	983	898	903	640	1009.5	44	7/8	M24	540	-	
	1000	40	432	1090	976	985	870	1120.5	44	1	M27	620	-	
	ASME B16.47B, API 605, GB 13402	1050	42	432	1142	1050	1055	960	1171.5	48	1	M27	625	-
		1100	44	432	1193	1070	1070	1150	1222	52	1	M27	630	-
		1200	48	524	1302	1200	1205	1400	1335.0	44	1 1/8	M30	740	-
		1350	54	591	1460	1312	1315	2245	1492	56	1 1/8	M30	820	-
1400		56	591	1512	1360	1370	2830	1543	60	1 1/8	M30	820	-	
1500		60	660	1628	1458	1470	3200	1662	52	1 1/4	M33	90	-	

# Double-disc swing check valve (API) built-in

Main Connection Dimension

Pressure level	Size		Dimensions (mm)				Weight (kg)	Pipe flange (for reference)						
	DN	NPS	L	D	D2	D3		D1	Bolt Quantity	Bolt diameter d		Bolt length L1		
										in	mm	RF	RTJ	
ASME B16.47B, API 605, GB/T 13402	1650	66	787	1881	1630	1663	5345	1930.5	52	1 1/4	M45x3	1075	-	
	1800	72	851	2046	1780	1818	6100	2095.5	60	1 1/4	M45x3	1145	-	
	1950	78	927	2204	1930	1973	8185	2260.5	64	2	M52x3	1250	-	
	2100	84	1041	2369	2080	2115	10220	2425.0	64	2	M52x3	1365	-	
Class 150 PN20	650	26	222	770	633	650	380	806.5	24	1 1/4	M33	450	-	
	700	28	305	827	700	700	400	863.5	28	1 1/4	M33	535	-	
	750	30	305	878	746	750	440	914.5	28	1 1/4	M33	545	-	
	800	32	305	935	796	800	580	978	28	1 1/2	M39x3	570	-	
	900	36	368	1045	874	894	660	1086	32	1 1/2	M39x3	650	-	
	1000	40	432	1158	976	985	890	1200	36	1 1/2	M39x3	710	-	
	ASME B16.47A MSS SP-44	1050	42	432	1213	1050	1055	980	1257.5	36	1 1/2	M39x3	730	-
		1100	44	432	1274	1070	1070	1170	1314.5	40	1 1/2	M39x3	730	-
		1200	48	524	1380	1166	1205	1450	1422.5	44	1 1/2	M39x3	840	-
		1350	54	591	1545	1312	1315	2300	1594	44	1 3/4	M45x3	950	-
1400		56	591	1602	1360	1370	2850	1651	48	1 3/4	M45x3	955	-	
1500		60	660	1710	1458	1470	3225	1759	52	1 3/4	M45x3	1040	-	
Class 300 PN50	50	2	60	110	51	61	3	127.0	8	5/8	M16	155	175	
	65	2 1/2	67	128	65	75	4	149.0	8	3/4	M20	175	195	
	80	3	73	147	80	92	6	168.5	8	3/4	M20	190	210	
	100	4	73	179	102	114	8	200.0	8	3/4	M20	195	215	
	125	5	86	214	127	140	15	235.0	8	3/4	M20	215	235	
	150	6	98	249	152	166	18	270.0	12	3/4	M20	230	250	
	200	8	127	305	203	210	31	330.0	12	7/8	M24	280	300	
	ASME B16.5	250	10	146	359	254	266	51	387.5	16	1	M27	315	335
		300	12	181	420	305	310	77	451.0	16	1 1/8	M30	365	385
		350	14	222	483	350	355	117	514.5	20	1 1/8	M30	410	430
400		16	232	537	400	405	190	571.5	20	1 1/4	M33	435	455	
450		18	264	594	450	455	200	628.5	24	1 1/4	M33	475	495	
500		20	292	652	500	505	265	686.0	24	1 1/4	M33	510	535	
600		24	318	772	600	608	410	813.0	24	1 1/2	M39x3	560	585	
Class 300 PN50		650	26	356	767	633	640	565	803	32	1 1/4	M33	625	-
	700	28	368	821	685	685	585	857	36	1 1/4	M33	635	-	
	750	30	368	882	735	740	660	921.0	36	1 3/8	M36x3	650	-	
	800	32	368	936	784	784	970	978	32	1 1/2	M39x3	675	-	
	900	36	483	1044	873	880	1020	1089.0	32	1 5/8	M42x3	800	-	
	ASME B16.47B, API 605, GB/T 13402	1000	40	546	1146	976	985	1420	1191	40	1 5/8	M42x3	885	-
		1050	42	568	1196	1035	1045	1540	1244.5	36	1 3/4	M45x3	920	-
		1200	48	629	1365	1166	1190	2260	1416.0	40	1 7/8	M48x3	1010	-
		1350	54	718	1526	1312	1315	3102	1578	48	1 7/8	M48x3	1140	-
		1500	60	838	1704	1458	1470	4315	1764	40	2 1/4	M56x3	1280	-

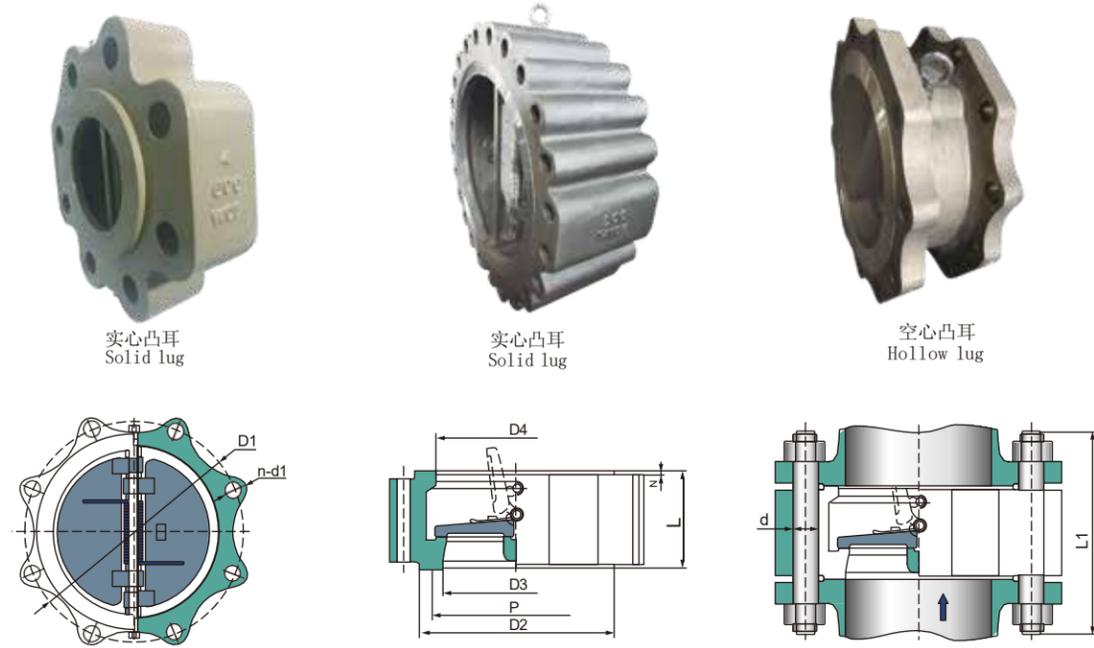
## Double-disc swing check valve (API) built-in

Main Connection Dimension													
Pressure level	Size		Dimensions (mm)				Weight (kg)	Pipe flange (for reference)					
								D1	Bolt Quantity	Bolt diameter d		Bolt length L1	
	DN	NPS	L	D	D2	D3				in	mm	RF	RTJ
Class 300 PN50	650	26	356	831	633	640	580	876	28	1 5/8	M42x3	625	-
	700	28	368	895	685	685	600	940	28	1 5/8	M42x3	650	-
	750	30	368	949	735	740	680	997	28	1 3/4	M45x3	665	-
	800	32	368	1003	784	784	990	1054	28	1 7/8	M48x3	685	-
	900	36	483	1113	873	880	1050	1168.5	28	2	M52x3	820	-
ASME B16. 47A MSS SP-44	1000	40	546	1110	976	985	1400	1156	32	1 5/8	M42x3	885	-
	1050	42	568	1161	1035	1045	1520	1206.5	32	1 5/8	M42x3	915	-
	1200	48	629	1320	1166	1190	2250	1371.5	32	1 7/8	M48x3	1015	-
	1350	54	718	1489	1312	1315	3080	1549.5	28	2 1/4	M56x3	1160	-
	1500	60	838	1642	1458	1470	4300	1702	32	2 1/4	M56x3	1305	-
Class 600 PN110	50	2	60	110	51	91	4	127.0	8	5/8	M16	175	180
	65	2 1/2	67	128	65	75	5	149.0	8	3/4	M20	195	200
	80	3	73	147	80	92	8	168.5	8	3/4	M20	210	215
	100	4	79	191	102	108	11	216.0	8	7/8	M27	235	240
	125	5	105	239	127	136	20	267.0	8	1	M27	280	285
	150	6	136	264	152	162	26	292.0	12	1	M27	320	325
	200	8	165	318	200	212	55	349.0	12	1 1/8	M30	370	375
	250	10	213	398	250	266	95	432.0	16	1 1/4	M33	440	445
	300	12	229	455	305	312	140	489.0	20	1 1/4	M33	460	465
	350	14	273	490	337	355	223	527.0	20	1 3/8	M36x3	520	525
ASME B16. 5	400	16	305	562	387	400	360	603.0	20	1 1/2	M39x3	575	580
	450	18	362	610	438	450	395	654.0	20	1 5/8	M42x3	650	655
	500	20	368	680	489	500	518	724.0	24	1 5/8	M42x3	670	680
	600	24	438	786	591	600	836	838.0	24	1 7/8	M48x3	780	795
	650	26	457	761	633	640	950	806.5	28	1 5/8	M42x3	790	805
Class 600 PN110	700	28	483	815	684	690	1215	863.5	28	1 3/4	M45x3	830	845
	750	30	505	875	735	740	1378	927	28	1 7/8	M48x3	875	890
	800	32	533	928	779	784	1643	984	28	2	M52x3	920	940
	900	36	635	1045	874	880	2120	1105	28	2 1/4	M56x3	1065	1085
	650	26	457	863	633	640	980	914.5	28	1 7/3	M48x3	795	810
Class 600 PN110	700	28	483	910	684	690	1250	965	28	2	M52x3	835	850
	750	30	505	967	735	740	1420	1022.5	28	2	M52x3	860	905
	800	32	533	1020	779	784	1700	1079.5	28	2 1/4	M56x3	905	925
	900	36	635	1126	874	880	2200	1194	28	2 1/2	M64x3	1035	1055
	1000	40	660	1153	976	985	2650	1213	32	2 1/4	M56x3	1115	-
ASME B16. 47A. MSS SP-44	1050	42	702	1215	1020	1030	3135	1283	28	2 1/2	M64x3	1190	-
	1200	48	787	1386	1166	1170	3755	1460.5	32	2 3/4	M70x3	1330	-
	50	2	70	140	51	58	8	165.0	8	7/8	M24	225	230
Class 900 PN150	65	2 1/2	83	162	65	73	11	190.5	8	1	M27	250	255
	80	3	83	165	80	90	14	190.5	8	7/8	M24	240	245
	100	4	102	204	102	108	20	235.0	8	1 1/8	M30	285	290

## Double-disc swing check valve (API) built-in

Main Connection Dimension													
Pressure level	Size		Dimensions (mm)				Weight (kg)	Pipe flange (for reference)					
								D1	Bolt Quantity	Bolt diameter d		Bolt length L1	
	DN	NPS	L	D	D2	D3				in	mm	RF	RTJ
Class900 PN150	125	5	110	245	127	136	30	279.5	8	1 1/4	M33	310	315
	150	6	159	286	150	162	42	317.5	12	1 1/8	M30	365	370
	200	8	206	356	200	212	84	393.5	12	1 3/8	M36x3	440	445
	250	10	241	432	250	266	145	470.0	16	1 3/8	M36x3	490	495
	300	12	292	495	305	312	220	533.5	20	1 3/8	M36x3	560	565
	350	14	356	518	337	355	350	559.0	20	1/2	M39x3	645	655
	400	16	384	572	387	400	470	616.0	20	1 5/8	M42x3	685	695
	450	18	451	635	438	450	605	686.0	20	1 7/8	M48x3	790	805
	500	20	451	695	487	496	820	749.5	20	2	M52x3	810	825
	600	24	495	835	591	600	1050	901.5	20	2 1/2	M64x3	945	965
CLASS 900 PN 150 ASME B16. 47B API 605 GB/T 13402	650	26	533	835	617	630	1182	901.5	20	2 1/2	M64x3	955	1050
	700	28	572	898	665	680	1441	971.5	20	2 3/4	M70x3	1030	1145
	750	30	635	955	712	735	1578	1035	20	3	M76x3	1125	1180
	800	32	660	1012	760	784	2030	1092	20	3	M76x3	1160	1260
	900	36	718	1120	855	865	2607	1200	24	3	M76x3	1240	995
Class900 PN150 ASME B16. 47A MSS SP-44	650	26	533	879	617	630	1200	952.5	20	2 3/4	M70x3	975	1055
	700	28	572	943	665	680	1460	1022.5	20	3	M76x3	1035	1055
	750	30	635	1006	712	735	1600	1086	20	3	M76x3	1110	1130
	800	32	660	1070	760	784	2050	1155.5	20	3 1/4	M82x3	1165	1185
	900	36	718	1195	855	865	2607	1289	20	3 1/2	M90x3	1265	1285
	1000	40	762	1246	950	965	2930	1340	24	3 1/2	M90x3	1360	-
	1050	42	787	1296	995	1015	3310	1390.5	24	3 1/2	M90x3	1400	-
	1200	48	851	1483	1140	1160	4415	1587.5	24	4	M100x3	1545	-
Class 1500 PN260	50	2	70	140	51	58	8	165.0	8	7/8	M24	225	230
	65	2 1/2	83	162	65	73	11	190.5	8	1	M27	250	255
	80	3	83	172	80	90	19	203.0	8	1/8	M30	270	275
	100	4	102	207	102	108	26	241.5	8	1 1/4	M33	310	315
	125	5	110	252	127	136	51	292.0	8	1 1/2	M39x3	370	375
	150	6	159	280	150	162	68	317.5	12	1 3/8	M36x3	430	440
	200	8	206	350	200	212	130	393.5	12	1 5/8	M42x3	510	520
	250	10	248	433	254	266	210	482.5	12	1 7/8	M48x3	600	610
	300	12	305	518	305	312	384	571.5	16	2	M52x3	690	715
	350	14	356	576	337	355	550	635.0	16	2 1/4	M56x3	775	800
ASME B16. 5	400	16	384	639	387	400	635	705.0	16	2 1/2	M64x3	850	880
	450	18	468	701	430	438	790	774.5	16	1 3/4	M70x3	955	985
	500	20	533	753	478	487	1275	832	16	3	M76x3	1065	1095
	600	24	559	897	570	578	2710	990.5	16	3 1/2	M90x3	1170	1205
	50	2	70	143	42	48	10	171.5	8	1	M27	255	260
	65	2 1/2	83	166	52	58	18	197.0	8	1 1/8	M30	290	305
	80	3	86	194	62	68	26	228.5	8	1 1/4	M33	320	330
	100	4	105	232	88	94	40	273.0	8	1 1/2	M39x3	370	380
	125	5	110	277	100	106	59	324.0	8	1 3/4	M45x3	420	435
	150	6	159	315	150	162	90	368.5	8	2	M52x3	515	530
Class 2500 PN420	200	8	206	385	180	186	150	438.0	12	2	M52x3	600	620
	250	10	254	474	225	232	240	539.5	12	2 1/2	M64x3	750	775
	300	12	305	547	266	272	440	619.0	12	2 3/4	M70x3	855	885

# Casting lug type double-disc swing check valve (API)



实心凸耳  
Solid lug

实心凸耳  
Solid lug

空心凸耳  
Hollow lug

Main Connection Dimension

Pressure level	Size		Dimensions (mm)										N	Weight (kg)	Pipe flange (for reference)				
			Bolt diameter d		Bolt Quantity	Bolt diameter d		Bolt length L1											
	DN	NPS	L	D1		D2 RF	D2 RJ	D3	D4	P	in	mm			in	mm	RF	RTJ	
Class 150 PN20	50	2	60	120.5	92	102	51	58	82.55	4	3/4	19	2	4	4	5/8	M16	140	155
	65	2 1/2	67	139.5	105	121	65	73	101.6	4	3/4	19	2	5.5	4	5/8	M16	150	165
	80	3	73	152.5	127	133	102	88	114.3	8	3/4	19	2	7	8	5/8	M16	160	175
	100	4	73	190.5	157	171	127	108	149.225	8	3/4	19	2	11	8	5/8	M16	170	185
	125	5	86	216	186	194	152	132	171.45	8	7/8	22.5	2	15	8	3/4	M20	190	205
	150	6	98	241.5	216	219	203	160	193.675	8	7/8	22.5	2	19	8	3/4	M20	205	220
	200	8	127	298.5	270	273	254	210	247.65	8	7/8	22.5	2	36	8	3/4	M20	240	255
	250	10	146	362	324	330	305	266	304.801	12	1	25.5	2	61	12	7/8	M24	270	285
	300	12	181	432	381	406	350	310	381.001	12	1	25.5	2	119	12	7/8	M24	310	325
	350	14	184	476	413	425	400	355	396.876	12	1 1/8	28.5	2	131	12	1	M27	325	340
	400	16	191	540	470	483	450	405	454.026	16	1 1/8	28.5	2	180	16	1	M27	340	355
	450	18	203	578	533	546	500	455	517.526	16	1 1/4	32	2	203	16	1 1/8	M30	365	380
500	20	219	635	584	597	600	505	558.801	20	1 1/4	32	2	275	20	1 1/8	M30	385	400	
600	24	222	749.5	692	711	700	605	673.101	20	1 3/8	35	2	314	20	1 1/4	M33	405	420	
700	28	305	795.5	762	-	746	700	-	40	7/8	22.5	2	910	40	3/4	M20	455	-	
750	30	305	846	813	-	746	750	-	44	7/8	22.5	2	1025	44	3/4	M20	455	-	
800	32	305	900	864	-	796	800	-	48	7/8	22.5	2	1344	48	3/4	M20	460	-	
900	36	368	1009.5	972	-	898	903	-	44	1	25.5	2	1536	44	7/8	M24	540	-	
1050	42	432	1171.5	1130	-	1050	1055	-	48	1 1/8	28.5	2	2310	48	1	M27	625	-	
1200	48	524	1335	1289	-	1200	1205	-	44	1 1/4	32	2	3364	44	1 1/8	M30	740	-	

# Casting lug type double-disc swing check valve (API)

Main Connection Dimension

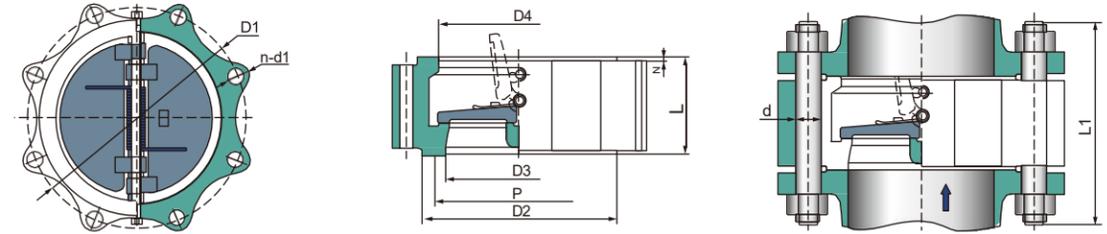
Pressure level	Size		Dimensions (mm)										N	Weight (kg)	Pipe flange (for reference)				
			Bolt diameter d		Bolt Quantity	Bolt diameter d		Bolt length L1											
	DN	NPS	L	D1		D2 RF	D2 RJ	D3	D4	P	in	mm			in	mm	RF	RTJ	
Class 300 PN5.0MPa	50	2	60	127	92	108	51	58	82.55	8	3/4	19	2	6	8	5/8	M16	155	175
	65	2 1/2	67	149	105	127	65	73	101.6	8	7/8	22.5	2	7	8	3/4	M20	175	195
	80	3	73	163.5	127	146	80	88	123.825	8	7/8	22.5	2	10	8	3/4	M20	190	210
	100	4	73	200	157	175	102	108	149.225	8	7/8	22.5	2	16	8	3/4	M20	195	215
	125	5	86	235	186	210	127	132	171.45	8	7/8	22.5	2	29	8	3/4	M20	215	235
	150	6	98	270	216	241	152	160	211.138	12	7/8	22.5	2	32	12	3/4	M20	230	250
	200	8	127	330	270	302	203	210	269.876	12	1	25.5	2	55	12	7/8	M24	280	300
	250	10	146	387.5	324	356	254	266	323.851	16	1 1/8	28.5	2	82	16	1 1/8	M27	315	335
	300	12	181	451	381	413	305	310	381.001	16	1 1/4	32	2	92	16	1 1/8	M30	365	385
	350	14	222	514.5	413	457	350	355	419.101	20	1 1/4	32	2	251	20	1 1/4	M30	410	430
	400	16	232	571.5	470	508	400	405	469.901	20	1 3/8	35	2	342	20	1 1/4	M33	435	455
	450	18	264	628.5	533	575	450	455	533.401	24	1 3/8	35	2	391	24	1 1/4	M33	475	495
500	20	292	686	584	635	500	505	584.201	24	1 3/8	35	2	536	24	1 1/4	M33	510	535	
600	24	318	813	692	749	600	608	692.151	24	1 5/8	41	2	833	24	1 1/2	M39	560	585	
750	30	368	921	845	-	735	740	-	36	1 1/2	38	2	1395	36	1 3/8	M36	650	-	
900	36	483	1089	1010	-	873	880	-	32	1 3/4	44.5	2	1862	32	1 5/8	M42	800	-	
1050	42	568	1245	1168	-	1035	1045	-	36	1 7/8	48	2	3861	36	1 3/4	M45	920	-	
1200	48	629	1416	1327	-	1179	1190	-	40	2	51	2	4370	40	1 7/3	M48	1010	-	
Class 600 PN11.0MPa	50	2	60	127	92	108	51	58	82.55	8	3/4	19	7	6.5	8	5/8	M16	175	180
	65	2 1/2	67	149	105	127	65	73	101.6	8	7/8	22.5	7	8	8	3/4	M20	195	200
	80	3	73	168	127	146	80	88	123.825	8	7/8	22.5	7	10	8	3/4	M20	210	215
	100	4	79	216	157	175	102	88	149.225	8	1	25.5	7	21	8	7/8	M24	235	240
	125	5	105	266.5	186	210	127	108	180.975	8	1 1/8	28.5	7	41	8	1	M27	280	285
	150	6	136	292	216	241	152	162	211.138	12	1 1/8	28.5	7	57	12	1	M27	320	325
	200	8	165	349	270	302	200	212	269.876	12	1 1/4	32	7	94	12	1 1/8	M30	370	375
	250	10	213	432	324	356	250	266	323.851	16	1 3/8	35	7	164	16	1 1/4	M33	440	445
	300	12	229	489	381	413	305	312	381.001	20	1 3/8	35	7	213	20	1 1/4	M33	460	465
	350	14	273	527	413	457	337	355	419.101	20	1 1/2	38	7	343	20	1 3/8	M36	520	525
	400	16	305	603	470	508	387	400	469.901	20	1 5/8	41	7	476	20	1/2	M39	575	580
	450	18	362	654	533	575	438	450	533.401	20	1 3/4	44.5	7	685	20	1 5/8	M42	650	655
500	20	368	724	584	635	489	500	584.201	24	1 3/4	44.5	7	908	24	1 5/8	M42	670	680	
600	24	438	838	692	749	591	600	692.151	24	2	51	7	1088	24	1 7/8	M48	780	790	

# Casting lug type double-disc swing check valve (API)

Main Connection Dimension

Pressure level	Size		Dimensions (mm)										N	Weight (kg)	Pipe flange (for reference)				
			Bolt diameter d		Bolt Quantity	Bolt diameter d		Bolt length L1											
	DN	NPS	L	D1		D2 RF	D2 RJ	D3	D4	P	In	mm			In	mm	RF	RTJ	
Class 900 PN15.0 MPa	50	2	70	165.1	92	124	51	58	95.25	8	1	25.5	7	13	8	7/8	M24	225	230
	65	2 1/2	83	190.5	105	137	65	73	107.95	8	1 1/8	28.5	7	18	8	1	M27	250	255
	80	3	83	190.5	127	156	80	90	123.82	8	1	25.5	7	21	8	7/8	M24	240	245
	100	4	102	234.9	157	181	102	108	149.22	8	1 1/4	32	7	36	8	1 1/8	M30	285	290
	125	5	110	279.4	186	216	127	136	180.98	8	1 3/8	35	7	65	8	1 1/4	M33	310	315
	150	6	159	317.5	216	241	150	162	211.12	12	1 1/4	32	7	92	12	1 1/8	M30	365	370
	200	8	206	393.7	270	308	200	212	269.88	12	1 1/2	38	7	174	12	1 3/8	M36	440	445
	250	10	241	469.9	324	362	250	266	323.85	16	1 1/2	38	7	264	16	1 3/8	M36	490	495
	300	12	292	533.4	381	419	305	312	381	20	1 1/2	38	7	450	20	1 3/8	M36	560	565
	350	14	356	558.8	413	467	337	355	419.1	20	1 5/8	41	7	612	20	1 1/2	M39	645	655
	400	16	384	615.9	470	524	387	400	469.9	20	1 3/4	44.5	7	712	20	1 5/8	M42	685	695
	450	18	451	685.8	533	594	438	450	533.4	20	2	51	7	1160	20	1 7/8	M48	790	805
500	20	451	749.3	584	648	487	496	584.2	20	2 1/8	54	7	1568	20	2	M52	810	825	
600	24	495	901.7	692	772	591	600	692.15	20	2 5/8	66.5	7	1881	20	2 1/2	M64	945	965	
Class 1500 PN26.0 MPa	50	2	70	165.1	92	124	51	58	95.25	8	1	25.5	7	14	8	7/8	M24	225	230
	65	2 1/2	83	190.5	105	137	65	73	107.95	8	1 1/8	28.5	7	19	8	1	M27	250	255
	80	3	83	203.2	127	168	80	90	136.52	8	1 1/4	32	7	25	8	1 1/8	M30	270	275
	100	4	102	241.3	157	194	102	108	161.92	8	1 3/8	35	7	43	8	1 1/4	M33	310	315
	125	5	110	292.1	186	229	127	136	193.68	8	1 5/8	41	7	72	8	1 1/8	M39	370	375
	150	6	159	317.5	216	248	150	162	211.12	12	1 1/2	38	7	101	12	1 3/8	M36	430	440
	200	8	206	393.7	270	318	200	212	269.88	12	1 3/4	45	7	240	12	1 5/8	M42	510	520
	250	10	248	482.6	324	371	254	266	323.85	12	2	51	7	306	12	1 7/8	M48	600	610
	300	12	305	571.5	381	438	305	312	381	16	2 1/8	54	7	541	16	2	M52	695	715
	350	14	356	635	413	489	337	355	419.1	16	2 3/8	61	7	932	16	2 1/4	M56	775	800
	400	16	384	704.8	470	546	387	400	469.9	16	2 5/8	66.5	7	980	16	2 1/2	M64	850	880
	Class 2500 PN42.0 MPa	50	2	70	171.4	92	133	42	48	101.6	8	1 1/8	28.5	7	19	8	1	M27	255
65		2 1/2	83	196.8	105	149	52	58	111.12	8	1 1/4	32	7	31	8	1 1/8	M30	290	305
80		3	86	228.6	127	168	62	68	127	8	1 3/8	35	7	38	8	1 1/4	M33	320	330
100		4	105	273	157	203	88	94	157.18	8	1 5/8	41	7	69	8	1 1/2	M39	370	380
125		5	110	323.8	186	241	100	106	190.5	8	1 7/8	48	7	135	8	1 3/4	M45	420	435
150		6	159	368.3	216	279	150	162	228.6	8	2 1/8	54	7	184	8	2	M52	515	530
200		8	206	438.1	270	340	180	186	279.4	12	2 1/8	54	7	380	12	2	M52	600	620
250		10	254	539.7	324	425	225	232	342.9	12	2 5/8	66.5	7	489	12	2 1/2	M64	750	775
300		12	305	619.1	381	495	266	272	406.4	12	2 7/8	73	7	747	12	2 3/4	M70	855	885

# Casting lug type double-disc swing check valve (GB)



Main Connection Dimension

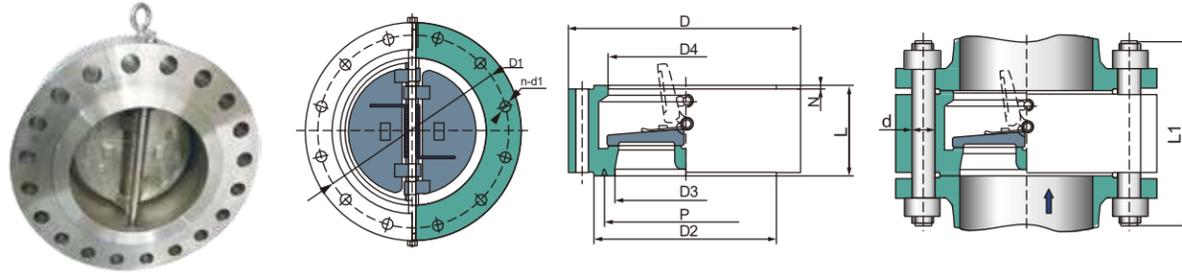
Nominal pressure	Nominal diameter	Dimensions (mm)				Pipe flange (for reference)				
		L	D3	D4	D1	D2	Bolt Quantity	Bolt diameter d	Bolt length L1	
PN10	50	60	51	58	125	99	4	M16	150	
	65	67	65	73	145	118	4	M16	155	
	80	73	80	38	160	132	8	M18	160	
	100	73	102	108	180	156	8	M16	165	
	125	86	127	132	210	184	8	M16	180	
	150	98	152	160	240	211	8	M20	205	
	200	127	203	210	295	266	8	M20	235	
	250	146	254	266	350	319	12	M20	255	
	300	181	305	310	400	370	12	M20	290	
	350	184	350	355	460	429	16	M20	295	
	400	191	400	405	515	480	16	M24	310	
	450	203	450	455	565	532	20	M24	325	
PN16	50	60	51	58	125	99	4	M16	150	
	65	67	55	78	145	118	4	M16	155	
	80	73	30	88	160	132	8	M16	160	
	100	73	102	108	180	156	8	M16	165	
	125	86	127	132	210	184	8	M16	180	
	150	98	152	160	240	211	8	M20	205	
	200	127	203	210	295	266	12	M20	235	
	250	146	254	266	355	319	12	M24	265	
	300	181	305	310	410	370	12	M24	305	
	350	184	350	355	470	429	16	M24	310	
	400	191	400	405	525	480	16	M27	330	
	450	203	450	455	585	548	20	M27	345	
500	219	500	505	650	609	20	M30	370		
600	222	600	605	770	720	20	M33	380		
700	305	695	700	840	794	24	M33	470		
800	305	796	800	950	901	24	M36	475		
900	368	898	903	1050	1001	28	M36	545		
1000	432	976	985	1170	1112	28	M39	620		
1200	524	1200	1205	1390	1328	32	M45	735		

Main Connection Dimension									
Nominal pressure	Nominal diameter	Dimensions (mm)			Pipe flange (for reference)				
		L	D3	D4	D1	D2	Bolt Quantity	Bolt diameter d	Bolt length L1
PN25	50	60	51	58	125	99	4	M16	150
	65	67	65	73	145	118	8	M16	160
	80	73	80	88	160	132	8	M16	170
	100	73	102	108	190	156	8	M20	180
	125	86	127	132	220	184	8	M24	205
	150	98	152	160	250	211	8	M24	220
	200	127	203	210	310	274	12	M24	255
	250	146	254	266	370	330	12	M27	285
	300	181	305	310	430	389	16	M27	325
	350	184	350	355	490	448	16	M30	340
	400	191	400	405	550	503	20	M33	360
	450	203	450	455	600	548	20	M33	375
	500	219	500	505	660	609	20	M33	395
	600	222	600	605	770	720	20	M36	410
	700	305	695	700	875	820	24	M39	500
	800	305	796	800	990	928	24	M45	520
900	368	898	903	1090	1028	28	M45	590	
1000	432	976	985	1210	1140	28	M52	675	
1200	524	1200	1205	1420	1350	32	M52	790	

Nominal pressure	Nominal diameter	Dimensions (mm)			Pipe flange (for reference)					
		L	D3	D4	D1	D2	Bolt Quantity	Bolt diameter d	Bolt length L1	
									RF, MF	RTJ
PN40	50	60	51	58	125	99	4	M16	150	-
	65	67	65	73	145	118	8	M16	160	-
	80	73	80	88	160	132	8	M16	170	-
	100	73	102	108	190	156	8	M20	180	-
	125	86	127	132	220	184	8	M24	205	-
	200	98	152	160	250	211	8	M24	220	-
	200	127	203	210	320	284	12	M27	270	-
	250	146	254	266	385	345	12	M30	300	-
	300	181	305	310	450	409	16	M30	345	-
	350	222	350	355	510	465	16	M33	400	-
	400	232	400	405	585	535	16	M36	425	-
	450	264	450	455	610	560	20	M36	470	-
	500	292	500	505	670	615	20	M39	505	-
	600	318	600	608	795	735	20	M45	575	-
	50	60	51	58	135	99	4	M20	170	185
	65	67	65	73	160	118	8	M20	180	195
80	73	80	88	170	132	8	M20	190	205	
100	79	102	108	200	156	8	M24	210	225	
125	105	127	132	240	184	8	M27	250	265	
150	136	152	162	280	211	8	M30	290	305	
200	165	200	212	345	284	12	M33	335	350	
250	213	250	266	400	345	12	M33	395	410	
300	229	305	310	460	409	16	M33	420	435	
350	273	350	355	525	465	16	M36	480	495	
400	305	400	405	585	535	16	M39	525	540	

Main Connection Dimension										
Nominal pressure	Nominal diameter	Dimensions (mm)			Pipe flange (for reference)					
		D	D3	D4	D1	D2	Bolt Quantity	Bolt diameter d	Bolt length L1	
									RF, MF	RTJ
PN40	50	120	51	58	145	99	4	M24	185	200
	65	144	65	73	170	118	8	M24	195	210
	80	154	80	88	180	132	8	M24	205	220
	100	181	102	108	210	156	8	M27	225	240
	125	218	127	132	250	184	8	M30	265	280
	200	258	152	162	290	211	12	M30	305	320
	200	324	200	212	360	284	12	M33	355	370
	250	392	250	266	430	345	12	M36	425	440
	300	456	305	312	500	409	16	M39	465	480
	350	570	350	355	560	465	16	M45	535	550
	400	570	400	405	620	535	16	M45	585	600
	50	120	51	56	145	99	4	M24	210	225
	65	144	65	73	170	118	8	M24	235	250
	80	154	80	90	180	132	8	M24	245	260
	100	181	102	108	210	156	8	M27	280	295
	125	218	127	136	250	184	8	M30	305	320
150	258	152	162	290	211	12	M30	365	385	
200	325	203	212	360	284	12	M33	425	445	
250	389	254	266	430	345	12	M39	495	515	
300	459	305	312	500	409	16	M39	570	600	
50	142	51	56	165	132	8	M22	205	220	
65	162	65	73	190	152	8	M27	245	260	
80	176	80	90	205	168	8	M27	250	265	
100	208	102	108	240	200	8	M30	280	295	
125	247	127	136	285	238	8	M36	335	350	
150	280	150	162	318	270	12	M36	385	405	
200	356	203	212	400	345	12	M42	470	490	
250	435	250	266	485	425	12	M48	535	555	
300	520	305	312	570	510	16	M48	610	640	

# Forging lug type double-disc swing check valve (API)



Main Connection Dimension

Pressure level	Size		Dimensions (mm)											Weight (kg)	Pipe flange (for reference)					
	DN	NPS	L	D	D1	D2 <sub>RF</sub>	D2 <sub>RJ</sub>	D3	D4	P	Bolt Quantity	Bolt diameter d			N	Bolt Quantity	Bolt diameter d		Bolt length L1	
												in	mm				in	mm	RF	RTJ
Class 150 PN20	50	2	60	150	120.5	92	102	51	58	82.55	4	3/4	19	2	7	4	5/8	M16	140	155
	65	2 1/2	67	180	139.5	105	121	65	78	101.6	4	3/4	19	2	9	4	5/8	M16	150	165
	80	3	73	190	152.5	127	133	80	88	114.3	4	3/4	22.5	2	12	4	5/8	M16	160	175
	100	4	73	230	190.5	157	171	102	108	149.225	8	3/4	22.5	2	19	8	5/8	M16	170	185
	125	5	86	255	216	186	194	127	132	171.45	8	7/8	22.5	2	25	8	3/4	M20	190	205
	150	6	98	280	241.5	216	219	152	160	193.675	8	7/8	25.5	2	32	8	3/4	M20	205	220
	200	8	127	345	298.5	270	273	203	210	247.65	8	7/8	25.5	2	63	8	3/4	M20	240	255
	250	10	146	405	362	324	330	254	266	304.801	12	1	25.5	2	93	12	7/8	M24	270	285
	300	12	181	485	432	381	406	305	310	381.001	12	1	25.5	2	170	12	7/8	M24	310	325
	350	14	184	535	476	413	425	350	355	396.876	12	1 1/8	28.5	2	199	12	1	M27	325	340
	400	16	191	595	540	470	483	400	405	454.026	16	1 1/8	28.5	2	246	16	1	M27	340	355
	450	18	203	635	578	533	546	450	455	517.526	16	1 1/4	32	2	290	16	1 1/8	M30	365	380
	500	20	219	700	635	584	597	500	505	558.801	20	1 1/4	32	2	348	20	1 1/8	M30	385	400
	600	24	222	815	749.5	692	711	600	605	673.101	20	1 3/8	35	2	396	20	1 1/4	M33	405	420
700	28	305	835	795.5	762	-	700	700	-	40	7/8	22.5	2	1270	40	3/4	M20	455	-	
750	30	305	885	846	813	-	746	750	-	44	7/8	22.5	2	1987	44	3/4	M20	455	-	
800	32	305	940	900	864	-	796	800	-	48	7/8	22.5	2	2925	48	3/4	M20	460	-	
900	36	368	1055	1009.5	972	-	898	903	-	44	1	25.5	2	1430	44	7/8	M24	540	-	
1050	42	432	1225	1171.5	1130	-	1050	1055	-	48	1 1/8	28.5	2	2377	48	1	M27	625	-	
1200	48	524	1390	1335	1289	-	1200	1205	-	44	1 1/4	32	2	4174	44	1 1/8	M30	740	-	

# Forging lug type double-disc swing check valve (API)

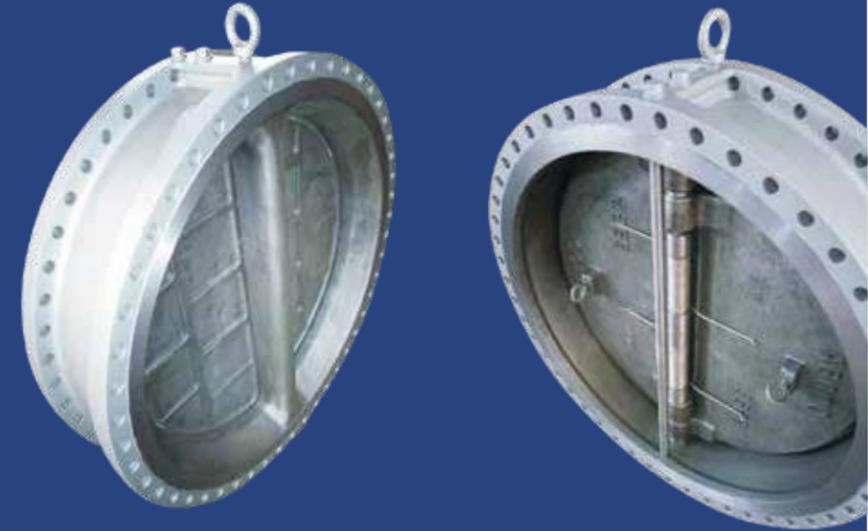
Main Connection Dimension

Pressure level	Size		Dimensions (mm)											Weight (kg)	Pipe flange (for reference)					
	DN	NPS	L	D	D1	D2 <sub>RF</sub>	D2 <sub>RJ</sub>	D3	D4	P	Bolt Quantity	Bolt diameter d			N	Bolt Quantity	Bolt diameter d		Bolt length L1	
												in	mm				in	mm	RF	RTJ
Class 300 PN5.0MPa	50	2	60	165	127	92	108	51	58	82.55	8	3/4	19	2	8	8	5/8	M16	155	175
	65	2 1/2	67	190	149	105	127	65	73	101.6	8	7/8	22.5	2	10	8	3/4	M20	175	195
	80	3	73	210	168.5	127	146	80	88	123.825	8	7/8	22.5	2	14	8	3/4	M20	190	210
	100	4	73	255	200	157	175	102	108	149.225	8	7/8	22.5	2	23	8	3/4	M20	195	215
	125	5	86	280	235	186	210	127	132	180.98	8	7/8	22.5	2	41	8	3/4	M20	215	235
	150	6	98	320	270	216	241	152	160	211.138	12	7/8	22.5	2	45	12	3/4	M20	230	250
	200	8	127	380	330	270	302	203	210	269.876	12	1	25.5	2	78	12	7/8	M24	280	300
	250	10	146	445	387.5	324	356	254	266	323.851	16	1 1/8	28.5	2	115	16	1	M27	315	335
	300	12	181	520	451	381	413	305	310	381.001	16	1 1/4	32	2	242	16	1 1/8	M30	365	385
	350	14	222	585	514.5	413	457	350	355	419.101	20	1 1/4	32	2	360	20	1 1/8	M30	410	430
	400	16	232	650	571.5	470	508	400	405	469.901	20	1 3/8	35	2	489	20	1 1/4	M33	435	455
	450	18	264	710	628.5	533	575	450	455	533.401	24	1 3/8	35	2	558	24	1 1/4	M33	475	495
	500	20	292	775	686	584	635	500	505	584.201	24	1 3/8	35	2	766	24	1 1/4	M33	510	535
	600	24	318	915	813	692	749	600	608	692.151	24	1 5/8	41	2	1190	24	1 1/2	M39	560	585
750	30	368	990	921	845	-	735	740	-	36	1 1/2	38	2	1996	36	1 3/8	M36	650	-	
900	36	438	1170	1089	1010	-	873	880	-	32	1 3/4	44.5	2	2660	32	1 5/8	M42	800	-	
1050	42	568	1335	1245	1165	-	1035	1045	-	36	1 7/8	48	2	5515	36	1 3/4	M45	920	-	
1200	48	629	1510	1416	1327	-	1179	1190	-	40	2	51	2	6239	40	1 7/8	M48	1010	-	
Class 600 PN11.0MPa	50	2	60	165	127	92	108	51	58	82.55	8	3/4	19	7	8	8	5/8	M16	175	180
	65	2 1/2	67	190	149	105	127	65	73	101.6	8	7/8	22.5	7	10	8	3/4	M20	195	200
	80	3	73	210	168	127	146	80	88	123.825	8	7/8	22.5	7	14	8	3/4	M20	210	215
	100	4	79	275	216	157	175	102	108	149.225	8	1	25.5	7	30	8	7/8	M24	235	240
	125	5	105	330	266.5	186	210	127	136	180.975	8	1 1/8	28.5	7	58	8	1	M27	280	285
	150	6	136	355	292	216	241	152	162	211.138	12	1 1/8	28.5	7	81	12	1	M27	320	325
	200	8	165	420	349	270	302	200	212	269.876	12	1 1/4	32	7	134	12	1 1/8	M30	370	375
	250	10	213	510	432	324	356	250	266	323.851	16	1 3/8	35	7	234	16	1 1/4	M33	440	445
	300	12	229	560	489	381	413	305	312	381.001	20	1 3/8	35	7	304	20	1 1/4	M33	460	465
	350	14	273	605	527	413	457	337	355	419.101	20	1 1/2	38	7	490	20	1 3/8	M36	520	525
	400	16	305	685	603	470	508	387	400	469.901	20	1 5/8	41	7	680	20	1 1/2	M39	575	580
	450	18	362	745	654	533	575	438	450	533.401	20	1 3/4	44.5	7	978	20	1 5/8	M42	650	655
	500	20	368	815	724	584	635	489	500	584.201	24	1 3/4	44.5	7	1297	24	1 5/8	M42	670	680
	600	24	438	940	838	692	749	591	600	692.151	24	2	51	7	1554	24	1 7/8	M48	780	790

Main Connection Dimension

Pressure level	Size		Dimensions (mm)										Weight (kg)	Pipe flange (for reference)						
	DN	NPS	L	D	D1	D2 <sub>RF</sub>	D2 <sub>RJ</sub>	D3	D4	P	Bolt Quantity	Bolt diameter d		Bolt Quantity	Bolt diameter d		Bolt length L1			
												in			mm	in	mm	RF	RTJ	
Class 900 PN15.0 MPa	50	2	70	215	165.1	92	124	51	58	95.25	8	1	25.5	7	16	8	7/8	M24	225	230
	65	2 1/2	83	245	190.5	105	137	65	73	107.95	8	1 1/8	28.5	7	22	8	1	M27	250	255
	80	3	83	240	190.5	127	156	80	90	123.82	8	1	25.5	7	26	8	7/8	M24	240	245
	100	4	102	290	234.9	157	181	102	108	149.22	8	1 1/4	32	7	45	8	1 1/8	M30	285	290
	125	5	110	350	279.4	186	216	127	136	180.98	8	1 3/8	35	7	81	8	1 1/4	M33	310	315
	150	6	159	380	317.5	216	241	150	162	211.12	12	1 1/4	32	7	115	12	1 1/8	M30	365	370
	200	8	206	470	393.7	270	308	200	212	269.88	12	1 1/2	38	7	217	12	1 3/8	M36	440	445
	250	10	241	545	469.9	324	362	250	266	323.85	16	1 1/2	38	7	330	16	1 3/8	M36	490	495
	300	12	292	610	533.4	381	419	305	312	381	20	1 1/2	38	7	509	20	1 3/8	M36	560	565
	350	14	356	640	558.8	413	467	337	355	419.1	20	1 5/8	41	7	765	20	1 1/2	M39	645	655
	400	16	384	705	615.9	470	524	387	400	469.9	20	1 3/4	44.5	7	890	20	1 5/8	M42	685	695
	450	18	451	785	685.8	533	594	438	450	533.4	20	2	51	7	1450	20	1 7/8	M48	790	805
500	20	451	855	749.3	584	648	487	496	584.2	20	2 1/8	54	7	1960	20	2	M52	810	825	
600	24	495	1040	901.7	692	772	591	600	692.15	20	2 5/8	66.5	7	2351	20	2 1/2	M64	945	965	
Class 1500 PN26.0 MPa	50	2	70	215	165.1	92	124	51	58	95.25	8	1	25.5	7	16	8	7/8	M24	225	230
	65	2 1/2	83	245	190.5	105	137	65	73	107.95	8	1 1/8	28.5	7	22	8	1	M27	250	255
	80	3	83	265	203.2	127	168	80	90	136.52	8	1 1/4	32	7	29	8	1 1/8	M30	270	275
	100	4	102	310	241.3	157	194	102	108	161.92	8	1 3/8	35	7	51	8	1 1/4	M33	310	315
	125	5	115	375	292.1	186	229	127	136	193.68	8	1 5/8	41	7	85	8	1 1/2	M39	370	375
	150	6	159	395	317.5	216	248	150	162	211.12	12	1 1/2	38	7	119	12	1 3/8	M36	430	440
	200	8	206	485	393.7	270	318	200	212	269.88	12	1 3/4	44.5	7	283	12	1 5/8	M42	510	520
	250	10	248	585	482.6	324	371	254	266	323.85	12	2	51	7	361	12	1 7/8	M48	600	610
	300	12	305	675	571.5	381	438	305	312	381	16	2 1/8	54	7	637	16	2	M52	695	715
	350	14	356	750	635	413	489	337	355	419.1	16	2 3/8	61	7	1097	16	2 1/4	M56	775	800
Class 2500 PN42.0 MPa	50	2	70	235	171.4	92	133	42	48	101.6	8	1 1/8	28.5	7	19	8	1	M27	255	260
	65	2 1/2	86	265	196.8	105	149	52	58	111.12	8	1 1/4	32	7	31	8	1 1/8	M30	290	305
	80	3	86	305	228.6	127	168	62	68	127	8	1 3/8	35	7	38	8	1 1/4	M33	320	330
	100	4	105	355	273	157	203	88	94	157.18	8	1 5/8	41	7	69	8	1 1/2	M39	370	380
	125	5	110	420	323.8	186	241	100	106	190.5	8	1 7/8	48	7	135	8	1 3/4	M45	420	435
	150	6	159	485	368.3	216	279	150	162	228.6	8	2 1/8	54	7	184	8	2	M52	515	530
	200	8	206	550	438.1	270	340	180	186	279.4	12	2 1/8	54	7	380	12	2	M52	600	620
	250	10	254	675	539.7	324	425	225	232	342.9	12	2 5/8	66.5	7	489	12	2 1/2	M64	750	775
300	12	305	760	619.1	381	495	266	272	406.4	12	2 7/8	73	7	747	12	2 3/4	M70	855	885	

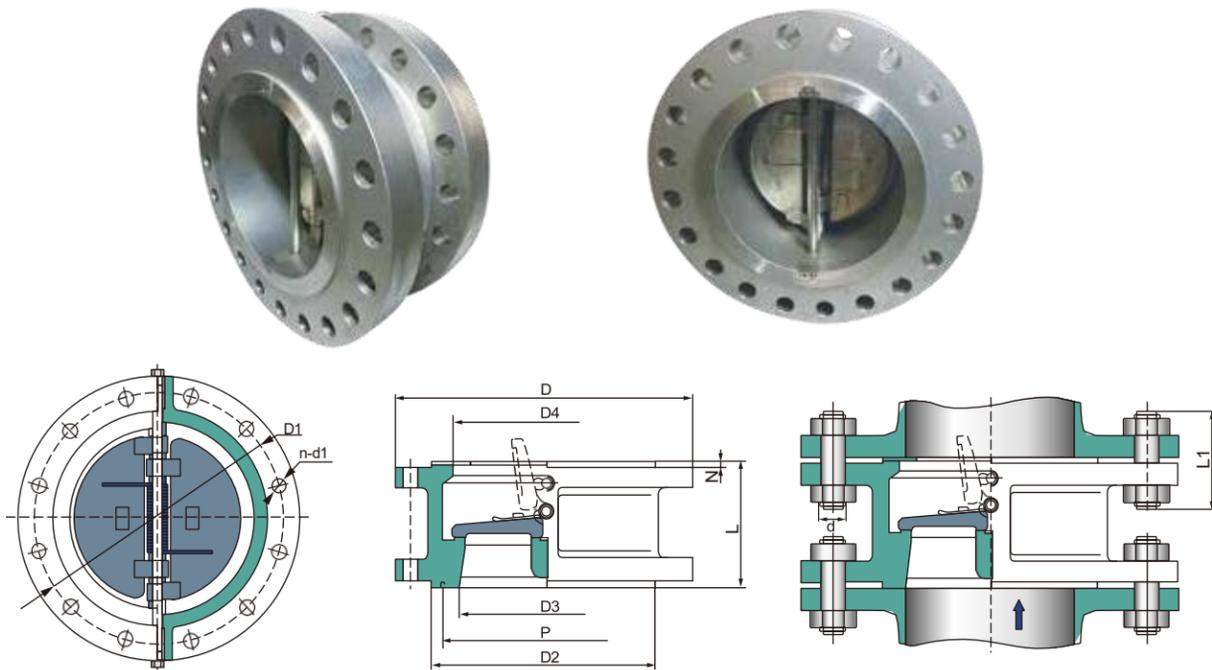
API Series /GB Series



H46-Type Flange Double Disc Swing Check Valve



## Flange lug type double-disc swing check valve (API)



Main Connection Dimension

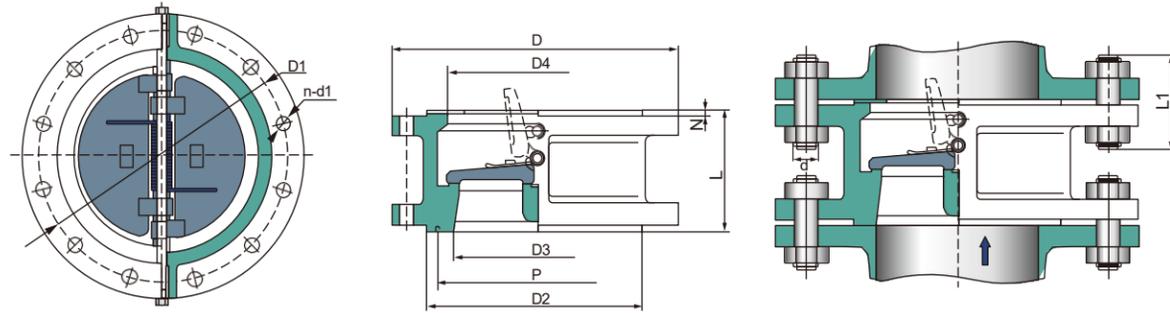
Pressure level	Size		Dimensions (mm)											Pipe flange (for reference)					
	DN	NPS	L	D	D1	D2 <sub>RF</sub>	D2 <sub>RJ</sub>	D3	D4	P	Bolt Quantity	Bolt diameter d		N	Bolt Quantity	Bolt diameter d			Bolt length L1
												in	mm			in	mm	RF	
Class 150 PN2.0MPa	200	8	127	345	298.5	270	273	203	210	247.65	8	7/8	22.5	2	8	3/4	M20	120	135
	250	10	146	405	362	324	330	254	266	304.801	12	1	25.5	2	12	7/8	M24	135	150
	300	12	181	485	432	381	406	305	310	381.001	12	1 1/8	25.5	2	12	7/8	M24	135	150
	350	14	184	535	476	413	425	350	355	396.876	12	1 1/8	28.5	2	12	1	M27	145	160
	400	16	191	595	540	470	483	400	405	454.026	16	1 1/4	28.5	2	16	1	M27	155	170
	450	18	203	635	578	533	546	450	455	517.526	16	1 1/4	32	2	16	1 1/8	M30	165	180
	500	20	219	700	635	584	597	500	505	558.801	20	1 1/4	32	2	20	1 1/8	M30	170	185
	600	24	222	815	749.5	692	711	600	605	673.101	20	1 3/8	35	2	20	1 1/4	M33	185	200
	700	28	305	835	795.5	762	-	700	700	-	40	7/8	22.5	2	40	3/4	M20	205	-
	750	30	305	885	846	813	-	746	750	-	44	7/8	22.5	2	44	3/4	M20	210	-
	800	32	305	940	900	864	-	796	800	-	48	7/8	22.5	2	48	3/4	M20	225	-
	900	36	368	1055	1009.5	972	-	898	903	-	44	1	25.5	2	44	7/8	M24	250	-
1050	42	432	1225	1171.5	1130	-	1050	1055	-	48	1 1/8	28.5	2	48	1	M27	275	-	
1200	48	524	1390	1335	1289	-	1200	1205	-	44	1 1/4	32	2	44	1 1/8	M30	305	-	

## Flange lug type double-disc swing check valve (API)

Main Connection Dimension

	DN	NPS	L	D	D1	D2 <sub>RF</sub>	D2 <sub>RJ</sub>	D3	D4	P			N						
											in	mm		in	mm	RF	RTJ		
Class 300 PN5.0MPa	200	8	127	380	330	270	302	203	210	269.876	12	1	25.5	2	12	7/8	M24	155	175
	250	10	146	445	387.5	324	356	254	266	323.851	16	1 1/8	28.5	2	16	1	M27	175	195
	300	12	181	520	451	381	413	305	310	381.001	16	1 1/4	32	2	16	1 1/8	M30	185	205
	350	14	222	585	514.5	413	457	350	355	419.101	20	1 1/4	32	2	20	1 1/8	M30	195	215
	400	16	232	650	571.5	470	508	400	405	469.901	20	1 3/8	35	2	20	1 1/4	M33	205	225
	450	18	264	710	628.5	533	575	450	455	533.401	24	1 3/5	35	2	24	1 1/4	M33	210	230
	500	20	292	775	686	584	635	500	505	584.201	24	1 5/8	35	2	24	1 1/4	M33	215	230
	600	24	318	915	813	692	749	600	608	692.151	24	1 1/2	41	2	24	1 1/2	M39	250	265
	700	30	368	990	921	845	302	735	740	-	36	1 3/4	38	2	36	1 3/8	M36	290	-
	900	36	483	1170	1089	1010	356	873	880	-	36	1 7/8	44.5	2	36	1 5/8	M42	325	-
	1050	42	568	1335	1245	1168	413	1032	1045	-	36	2	48	2	36	1 3/4	M45	360	-
	1200	48	629	1510	1416	1327	457	1170	1190	-	40	1 1/4	51	2	40	1 7/8	M48	400	-
Class 600 PN11.0MPa	200	8	165	420	349	270	508	200	212	269.876	12	1 3/8	32	7	12	1 1/7	M30	210	215
	250	10	213	510	432	324	575	250	266	323.851	16	1 3/8	35	7	16	1 1/4	M33	230	235
	300	12	229	560	489	381	635	305	312	381.001	20	1 1/2	35	7	20	1 1/4	M33	240	245
	350	14	273	605	527	413	749	337	355	419.101	20	1 5/8	38	7	20	1 3/8	M36	260	265
	400	16	305	685	603	470	-	387	400	469.901	20	1 1/2	41	7	20	1 1/2	M39	280	285
	450	18	362	745	654	533	-	438	450	533.401	20	1 3/4	44.5	7	20	1 5/8	M42	295	300
Class 900 PN15.0MPa	500	20	368	815	724	584	-	489	500	584.201	24	1 3/4	44.5	7	24	1 5/8	M48	310	315
	600	24	438	940	838	692	-	591	600	692.151	24	2	51	7	24	1 7/8	M48	350	360
	200	8	206	470	393.7	270	308	200	212	269.88	12	1 1/2	38	7	12	1 3/8	M36	245	250
	250	10	241	545	469.9	324	362	250	266	323.85	16	1 1/2	38	7	16	1 3/8	M36	260	265
	300	12	292	610	533.4	381	419	305	312	381	20	1 1/2	38	7	20	1 3/8	M36	275	280
	350	14	356	640	558.8	413	467	337	355	419.1	20	1 5/8	41	7	20	1 1/2	M39	295	305
Class 1500 PN26.0MPa	400	16	384	705	615.9	470	524	387	400	469.9	20	1 3/4	44.5	7	20	1 5/8	M42	305	315
	450	18	451	785	685.8	533	594	438	450	533.4	20	2	51	7	20	1 7/8	M48	350	365
	500	20	451	855	749.3	584	648	487	496	584.2	20	1 2/8	54	7	20	2	M52	370	385
	600	24	495	1040	901.7	692	772	591	600	692.15	20	2 5/8	66.5	7	20	2 1/2	M64	470	490
Class 1500 PN26.0MPa	200	8	206	485	393.7	270	318	200	212	269.88	12	1 3/4	45.5	7	12	1 5/8	M42	315	325
	250	10	248	585	482.6	324	371	250	266	323.85	12	2	51	7	12	1 7/8	M48	365	375
	300	12	305	675	571.5	381	438	305	312	381	16	2 1/8	54	7	16	2	M52	400	415
	350	14	356	750	635	413	489	337	355	419.1	16	2 3/8	61	7	16	2 1/4	M56	435	455
400	16	384	825	704.8	470	546	387	400	469.9	16	2 5/8	66.5	7	16	2 1/2	M64	480	505	

## Double-disc swing check valve (GB)



Main Connection Dimension

Nominal pressure	Nominal diameter	Dimensions (mm)									Pipe flange (for reference)		
		L	D	D1	D2	D3	D4	Screw Quantity	Screw diameter d	N	Screw Quantity	Screw diameter d	Bolt length L1
PN10	200	127	340	295	266	203	210	8	23	3	8	M20	110
	250	146	395	350	319	254	266	12	23	3	12	M20	115
	300	181	445	400	370	305	310	12	23	4	12	M20	120
	350	184	505	460	429	350	355	16	23	4	16	M20	120
	400	191	565	515	480	400	405	16	25	4	16	M24	130
	450	203	615	565	530	450	455	20	25	4	20	M24	130
	500	219	670	620	582	500	505	20	25	4	20	M24	135
	600	222	780	725	682	600	605	20	30	5	20	M27	150
	700	305	895	840	794	695	700	24	30	5	24	M27	140
	800	305	1015	950	901	796	800	24	34	5	24	M30	155
PN16	900	368	1115	1050	1001	898	903	28	34	5	28	M30	160
	1000	432	1230	1160	1112	976	985	28	34	5	28	M33	160
	1200	524	1455	1380	1328	1200	1205	32	41	5	32	M36	185
	200	127	340	295	266	203	210	12	23	3	12	M20	115
	250	146	405	355	319	254	266	12	25	3	12	M24	130
	300	181	460	410	370	305	310	12	25	4	12	M24	130
	350	184	520	470	429	350	355	16	25	4	16	M24	140
	400	191	580	525	480	400	405	16	30	4	16	M27	150
	450	203	640	585	548	450	455	20	30	4	20	M27	160
	500	219	715	650	609	500	505	20	34	4	20	M30	175
PN100	600	222	840	770	720	600	605	20	41	5	20	M33	200
	700	305	910	840	794	695	700	24	41	5	24	M33	205
	800	305	1025	950	901	769	800	24	41	5	24	M36	210
	900	368	1125	1050	1001	898	903	28	41	5	28	M36	215
	1000	432	1255	1170	1112	976	985	28	48	5	28	M39	235
	1200	524	1485	1390	1328	1200	1205	32	54	5	32	M45	250

## Double-disc swing check valve (GB)

Main Connection Dimension

Nominal pressure	Nominal diameter	Dimensions (mm)									Pipe flange (for reference)		
		L	D	D1	D2	D3	D4	Screw Quantity	Screw diameter d	N	Screw Quantity	Screw diameter d	Bolt length L1
PN25	200	127	360	310	274	203	210	12	30	3	12	M24	150
	250	146	425	370	330	254	266	12	30	3	12	M27	150
	300	181	485	430	389	305	310	16	30	4	16	M27	155
	350	184	555	490	448	350	355	16	34	4	16	M30	175
	400	191	620	550	503	400	405	16	34	4	16	M33	185
	450	203	670	600	548	450	455	20	34	4	20	M33	190
	500	219	730	660	609	500	505	20	41	4	20	M33	205
	600	222	845	770	720	600	605	20	41	5	20	M36	220
	700	305	960	875	820	695	700	24	48	5	24	M39	240
	800	305	1085	990	928	796	800	24	48	5	24	M45	250
	900	368	1185	1090	1028	898	903	28	54	5	28	M45	265
	1000	432	1320	1210	1140	976	985	28	58	5	28	M52	285
1200	524	1530	1420	1350	1200	1205	32	58	5	32	M52	290	

Nominal pressure	Nominal diameter	Dimensions (mm)										Pipe flange (for reference)					
		L	D	D1	D2 RF	D2 RJ	D3	D4	P	Screw Quantity	Screw diameter d	N	Screw Quantity	Screw diameter d	Bolt length L1		
PN40	200	127	375	320	274	-	203	210	-	12	30	3	12	M27	155	-	
	250	146	450	385	330	-	254	266	-	12	34	3	12	M30	175	-	
	300	181	515	450	389	-	305	310	-	16	34	4	16	M30	180	-	
	350	222	550	510	445	-	350	355	-	16	34	4	16	M33	195	-	
	400	232	660	585	503	-	400	405	-	16	41	4	16	M36	225	-	
	450	264	685	610	548	-	450	455	-	20	41	4	20	M36	230	-	
	500	292	755	670	609	-	500	505	-	20	48	4	20	M39	245	-	
	600	318	890	795	720	-	600	608	-	20	54	5	20	M45	260	-	
	PN63	200	165	415	345	310	300	200	212	265	10	34	3	10	M33	175	190
		250	213	470	400	362	352	250	266	320	10	38	3	10	M33	195	210
300		229	530	460	422	412	305	310	375	12	42	4	12	M33	215	230	
350		273	600	525	487	475	337	355	420	12	46	4	12	M36	240	255	
400		305	670	585	541	525	387	405	480	12	50	4	12	M39	260	275	
PN100	150	136	355	290	211	250	152	162	205	12	34	3	12	M30	180	195	
	200	165	430	360	284	312	200	212	265	12	41	3	12	M33	210	225	
	250	213	505	430	345	382	250	266	320	12	41	3	12	M36	230	245	
	300	229	585	500	409	442	305	312	375	16	48	4	16	M39	260	275	
	350	273	655	560	465	498	337	355	420	16	54	4	16	M45	285	305	
400	305	715	620	535	558	387	405	480	16	54	4	16	M45	295	315		

# API Series/GB Series

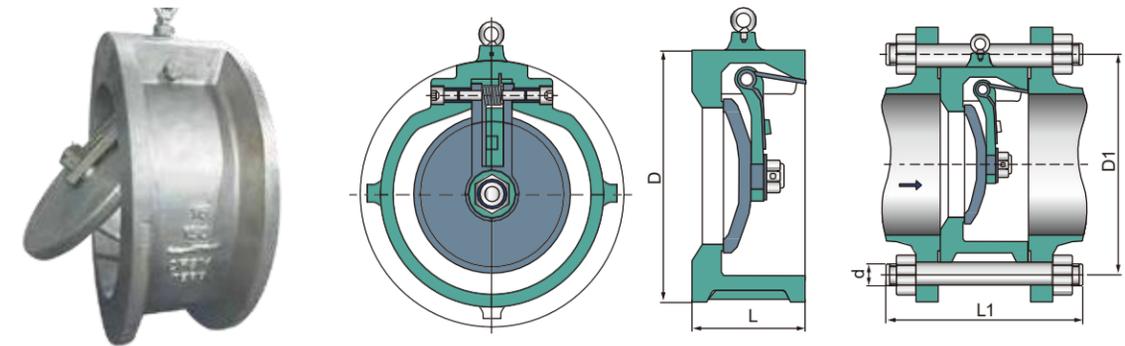


H74-Type Wafer Single-disc Swing Check Valve

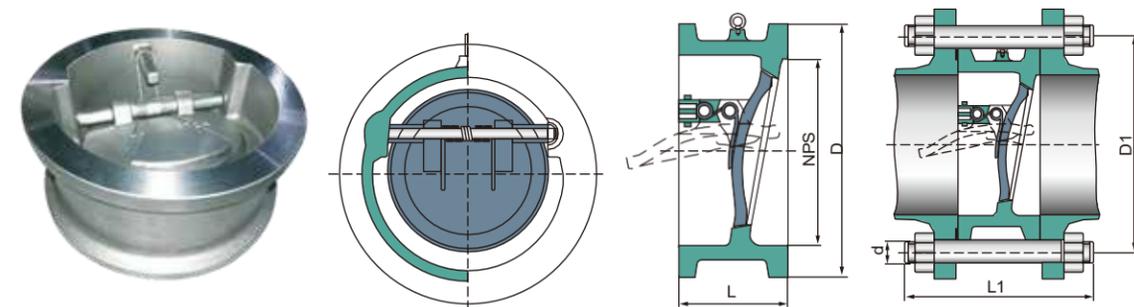


H77-Type Swas Hplate Wafer Single-disc Swing Check Valve

## Wafer single-disc swing check valve long series (API)



## Swas hplate wafer single-disc swing check valve (API)



Main Connection Dimension

Pressure level	Size		Dimensions (mm)		Weight (kg)	Pipe flange (for reference)					
						Bolt hole center Diameter D1	Screw Quantity	Screw diameter d		Bolt length L1	
	DN	NPS	L	D				n	mm	RF	RJ
Class 150 PN2.0MPa	50	2	60	103	3	120.5	4	5/8	M16	140	155
	65	2 1/2	67	122	4	139.5	4	5/8	M16	150	165
	80	3	73	135	5	152.5	4	5/8	M16	160	175
	100	4	73	173	8	190.5	8	5/8	M16	170	185
	125	5	86	195	10	216.0	8	3/4	M20	190	205
	150	6	98	220	16	241.5	8	3/4	M20	205	220
	200	8	127	277	30	298.5	8	3/4	M20	240	255
	250	10	146	337	47	362.0	12	7/8	M24	270	285
	300	12	181	407	65	432.0	12	7/8	M24	310	325
	350	14	184	448	102	476.0	12	1	M27	325	340
	400	16	191	512	137	540.0	16	1	M27	340	355
	450	18	203	547	166	578.0	16	1 1/8	M30	365	380
500	20	219	604	193	635.0	20	1 1/8	M30	385	400	
600	24	222	715	397	749.5	20	1 1/4	M33	405	420	

## Wafer single-disc swing check valve (API)

Main Connection Dimension											
Pressure level	Size		Dimensions (mm)		Weight (kg)	Pipe flange (for reference)					
						Bolt hole center Diameter D1	Screw Quantity	Screw diameter d		Bolt length L1	
	DN	NPS	L	D				in	mm	RF	RJ
Class 300 PN5.0MPa	50	2	60	110	4	127.0	8	5/8	M16	155	175
	65	2 1/2	67	128	5	149.0	8	3/4	M20	175	195
	80	3	73	147	7	168.5	8	3/4	M20	190	210
	100	4	73	179	10	200.0	8	3/4	M20	195	215
	125	5	86	214	18	235.0	8	3/4	M20	215	235
	150	6	98	249	22	270.0	12	3/4	M20	230	250
	200	8	127	305	37	300.0	12	7/8	M24	280	300
	250	10	146	359	61	387.5	16	1	M27	315	335
	300	12	181	420	92	451.0	16	1 1/8	M30	365	385
	350	14	222	483	140	514.5	20	1 1/8	M30	410	430
	400	16	232	537	228	571.5	20	1 1/4	M33	435	455
	450	18	264	594	240	628.5	24	1 1/4	M33	475	495
	500	20	292	652	318	686.0	24	1 1/4	M33	510	535
	600	24	318	772	492	813.0	24	1 1/2	M39	560	585
Class 600 PN11.0MPa	50	2	60	110	5	127.0	8	5/8	M16	175	180
	65	2 1/2	67	128	6	149.0	8	3/4	M20	195	200
	80	3	73	147	10	168.5	8	3/4	M20	210	215
	100	4	79	191	13	216.0	8	7/8	M24	235	240
	125	5	105	239	24	267.0	8	1	M27	280	285
	150	6	136	264	31	292.0	12	1	M27	320	325
	200	8	165	318	66	349.0	12	1 1/8	M30	370	375
	250	10	213	398	114	432.0	16	1 1/4	M33	440	445
	300	12	229	455	168	489.0	20	1 1/4	M33	460	465
	350	14	273	490	268	527.0	20	1 3/8	M36	520	525
	400	16	305	562	432	603.0	20	1 1/2	M39	575	580
	450	18	362	610	474	654.0	20	1 5/8	M42	650	655
	500	20	368	680	622	724.0	24	1 5/8	M42	670	680
	600	24	438	786	1003	838.0	24	1 7/8	M48	780	790
Class 900 PN15.0MPa	50	2	70	140	10	165.0	8	7/8	24	225	230
	65	2 1/2	83	162	13	190.5	8	1	27	250	255
	80	3	83	165	17	190.5	8	7/8	24	240	245
	100	4	102	204	24	235.0	8	1 1/8	30	285	290
	125	5	110	245	36	279.5	8	1 1/4	33	310	315
	150	6	159	286	50	317.5	12	1 1/8	30	365	370
	200	8	206	356	101	393.5	12	1 3/8	36	440	445
	250	10	241	432	174	470.0	16	1 3/8	36	490	495
	300	12	292	495	264	533.5	20	1 3/8	36	560	565
	350	14	356	518	420	559.0	20	1 1/2	39	645	655
	400	16	384	572	564	616.0	20	1 5/8	42	685	695
	450	18	451	635	726	686.0	20	1 7/8	48	790	805
	500	20	451	695	984	749.5	20	2	52	810	825
	600	24	495	835	1260	901.5	20	2 1/2	64	945	965

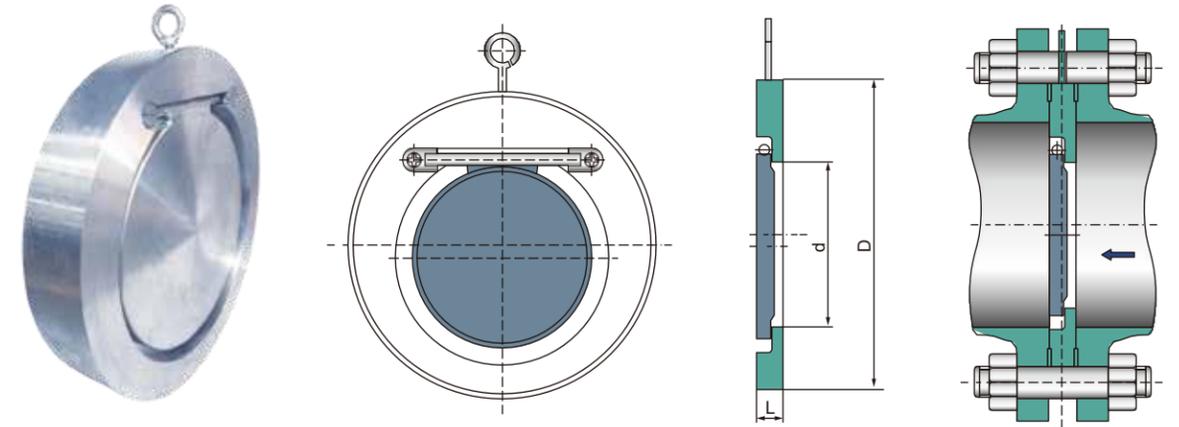
## Wafer single-disc swing check valve(GB)

Main Connection Dimension								
Nominal pressure (MPa)	Nominal diameter (mm)	Dimensions (mm)		Weight (kg)	Pipe flange (for reference)			
					Bolt hole center Diameter D1	Screw Quantity	Screw Diameter d	
		L	D					
PN1.0MPa	50	60	108	3	125	4	16	150
	65	67	128	4	145	4	16	155
	80	73	142	5	160	8	16	160
	100	73	162	7	180	8	16	165
	125	86	192	10	210	8	16	180
	150	98	218	16	240	8	20	205
	200	127	273	30	295	8	20	235
	250	146	328	47	350	12	20	255
	300	181	378	77	400	12	20	290
	350	184	438	102	460	16	20	295
	400	191	489	137	515	16	24	310
	450	203	539	166	565	20	24	325
	500	219	594	193	620	20	24	345
	600	222	696	300	725	20	27	355
PN1.6MPa	50	60	108	3	125	4	16	150
	65	67	128	4	145	4	16	155
	80	73	142	5	160	8	16	160
	100	73	162	7	180	8	16	165
	125	86	192	10	210	8	16	180
	150	98	218	16	240	8	20	205
	200	127	273	30	295	12	20	235
	250	146	329	47	355	12	24	265
	300	181	384	77	410	12	M24	305
	350	184	444	102	470	16	M24	310
	400	191	496	137	525	16	M27	330
	450	203	556	166	585	20	M27	345
	500	219	618	193	650	20	M30	370
	600	222	732	300	770	20	M33	380
PN2.5MPa	50	60	108	3	125	4	M16	150
	65	67	128	5	145	8	M16	160
	80	73	142	5	160	8	M16	170
	100	73	168	7	190	8	M20	180
	125	86	194	10	220	8	M24	205
	150	98	224	17	250	8	M24	220
	200	127	284	32	310	12	M24	255
	250	146	341	50	370	12	M27	285
	300	181	401	65	430	16	M27	325
	350	184	458	103	490	16	M30	340
	400	191	515	144	550	16	M33	360
	450	203	565	178	600	20	M33	375
	500	219	622	198	660	20	M33	395
	600	222	732	290	770	20	M36	410

# Wafer single-disc swing check valve(GB)

Main Connection Dimension										
Nominal pressure (MPa)	Nominal diameter (mm)	Dimensions (mm)		Weight (kg)	Pipe flange (for reference)					
		L	D		Bolt hole center Diameter D1	Screw Quantity	Screw diameter d	Bolt length L1		
								RF	MFM	RJ
PN4. 0MPa	50	60	108	4	125	4	M16	150	-	
	65	67	128	5	145	8	M16	160	-	
	80	73	142	7	160	8	M16	170	-	
	100	73	168	10	190	8	M20	180	-	
	125	86	194	16	220	8	M24	205	-	
	150	98	224	19	250	8	M24	220	-	
	200	127	291	34	320	12	M27	270	-	
	250	146	353	59	385	12	M30	300	-	
	300	181	418	91	450	16	M30	345	-	
	350	222	475	137	510	16	M33	400	-	
	400	232	547	228	585	16	M36	425	-	
	450	264	572	240	610	20	M36	470	-	
	500	292	626	312	670	20	M39	505	-	
	600	318	745	185	795	20	M45	575	-	
PN6. 3MPa	50	60	114	5	135	4	M20	170	185	
	65	67	138	6	160	8	M20	180	195	
	80	73	148	8	180	8	M20	190	205	
	100	79	174	12	200	8	M24	210	225	
	125	105	211	19	240	8	M27	250	265	
	150	136	248	24	280	8	M30	290	305	
	200	165	310	46	345	12	M33	335	350	
	250	213	362	74	400	12	M33	395	410	
	300	229	422	120	460	16	M33	420	435	
	350	273	487	192	525	16	M36	480	495	
PN10. 0MPa	50	60	120	6	145	4	M24	185	200	
	65	67	144	8	170	8	M24	195	210	
	80	73	154	12	180	8	M24	205	220	
	100	79	181	14	210	8	M27	225	240	
	125	105	218	23	250	8	M30	265	280	
	150	136	258	30	290	12	M30	305	320	
	200	165	324	87	360	12	M33	355	370	
	250	213	392	113	430	12	M36	425	440	
	300	229	456	170	500	16	M39	465	480	
	350	273	510	278	560	16	M45	535	550	
400	305	570	439	620	16	M45	585	600		

# Wafer single-disc swing check valve short series



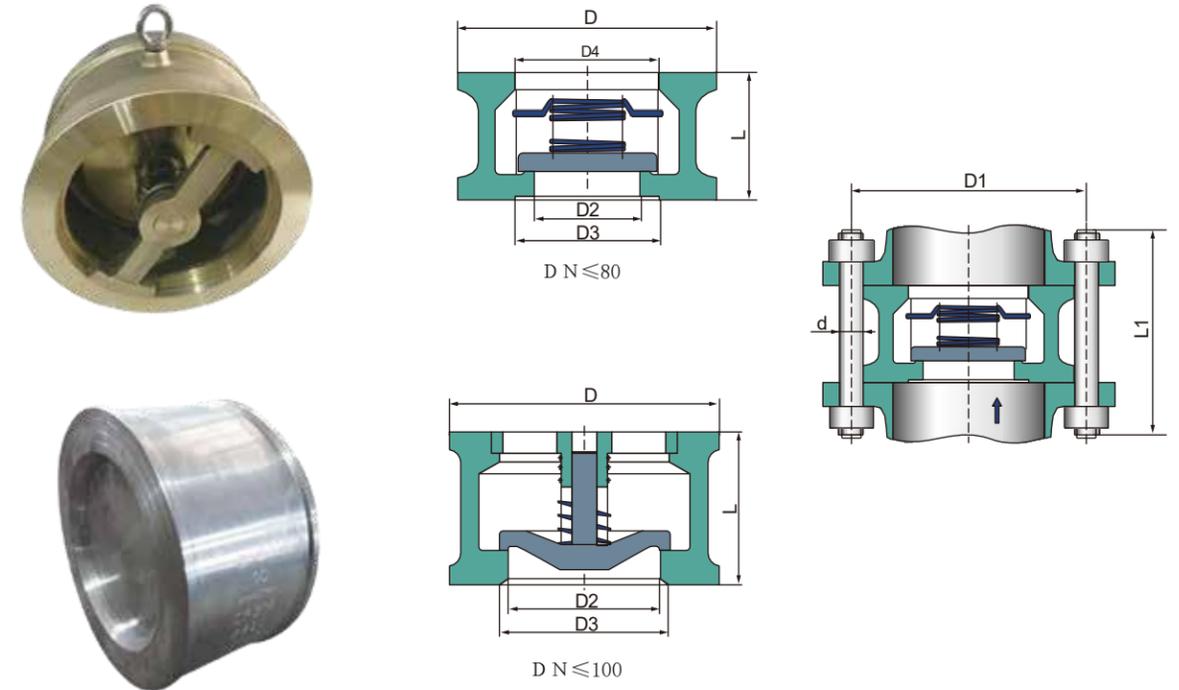
Main Connection Dimension						
Size	d	L	D			
			PN10	PN18	JIS 10K	Class 150Lb
25	14	16	72	72	64	64
40	22	19	93	93	86	88
50	30	19	108	108	103	104
65	40	19	128	128	123	123
80	52	19	143	143	133	136
100	72	19	163	163	158	174
125	95	19	193	193	189	196
150	114	19	219	219	219	221
200	144	29	274	274	269	278
250	188	29	329	329	332	339
300	220	38	379	385	377	409
350	266	44	438	444	422	449
400	305	51	489	496	485	512
450	356	60	538	555	540	548
500	406	64	593	616	595	605
600	485	70	695	733	699	716
700	565	76	811	802	809	773
800	620	80	918	912	919	878
900	715	95	1018	1012	1018	983
1000	810	127	1124	1126	1122	1090

# API Series/GB Series



H71-Type Wafer Lift Type Check Valve

# Wafer lift type check valve (API)



Main Connection Dimension														
Pressure level	Size		Dimensions (mm)					Weight (kg)	Pipe flange (for reference)					
									Bolt hole center Diameter D1	Bolt Quantity	Screw diameter d		Bolt length L1	
	DN	NPS	L	D	D2	D3	D4				in	mm	RF	RJ
Class 150 PN2.0MPa	15	1/2	25	46	14	25	25	0.28	60.5	4	1/2	M14	90	-
	20	3/4	31.5	56	18	30	30	0.42	70	4	1/2	M14	100	-
	25	1	35.5	65	23	36	36	0.56	79.5	4	1/2	M14	105	120
	32	1 1/4	40	74	30	43	43	0.75	89	4	1/2	M14	115	130
	40	1 1/2	45	84	38	52	52	1.3	98.5	4	1/2	M14	120	135
	50	2	56	103	47	62	62	2.1	120.5	4	5/8	M16	140	155
	65	2 1/2	63	122	61	75	75	2.8	139.5	4	5/8	M16	155	170
	80	3	71	135	75	90	90	3.6	152.5	4	5/8	M16	165	180
	100	4	80	173	94	112	112	4.8	190.5	8	5/8	M16	175	190
	125	5	110	195	110	125	132	12	216.0	8	3/4	M20	210	225
	150	6	125	220	127	150	158	17	241.5	8	3/4	M20	230	245
	200	8	160	277	165	200	208	29	298.5	8	3/4	M20	270	285

## Wafer lift type check valve (API)

Main Connection Dimension														
Pressure level	Size		Dimensions (mm)					Weight (kg)	Pipe flange (for reference)					
									Bolt hole center Diameter D1	Bolt Quantity	Screw diameter d		Bolt length L1	
	DN	NPS	L	D	D2	D3	D4				in	mm	RF	RJ
Class 300 PN5.0MPa	15	1/2	25	52	14	25	25	0.3	66.5	4	1/2	M14	95	105
	20	3/4	31.5	65	18	30	30	0.46	82.5	4	5/8	M16	110	125
	25	1	35.5	72	23	36	36	0.6	89	4	5/8	M16	115	130
	32	1 1/4	40	81	30	43	43	0.8	98.5	4	5/8	M16	125	140
	40	1 1/2	45	94	38	52	52	1.5	114.5	4	3/4	M16	140	155
	50	2	56	110	47	62	62	2.4	127.0	8	5/8	M20	145	170
	65	2 1/2	63	128	61	75	75	3.0	149.0	8	3/4	M20	170	190
	80	3	71	147	75	90	90	4.0	168.5	8	3/4	M20	185	205
	100	4	80	179	94	112	112	5.5	200.0	8	3/4	M20	200	220
	125	5	110	214	110	125	132	13	235.0	8	3/4	M20	235	255
	150	6	125	249	127	150	158	22	270.0	12	3/4	M20	255	275
	200	8	160	305	165	200	208	36	330.0	12	7/8	M24	305	325
Class 600 PN11.0MPa	15	1/2	25	52	14	25	25	0.4	66.5	4	1/2	M14	95	105
	20	3/4	31.5	65	18	30	30	0.8	82.5	4	5/8	M16	110	125
	25	1	35.5	72	23	36	36	1.0	89.0	4	5/8	M16	115	130
	32	1 1/4	40	81	30	43	43	1.3	98.5	4	5/8	M16	125	140
	40	1 1/2	45	94	38	52	52	1.8	114.5	4	3/4	M20	145	160
	50	2	56	110	47	62	62	2.8	127.0	8	5/8	M16	155	170
	65	2 1/2	63	128	61	75	75	4	149.0	8	3/4	M20	175	195
	80	3	71	147	75	90	90	6	168.5	8	3/4	M20	190	210
	100	4	80	191	4	112	112	11	216.0	8	7/8	M24	220	240
	125	5	110	239	110	125	125	25	267.0	8	1	M27	265	285
	150	6	125	264	127	150	150	32	292.0	12	1	M27	290	310
	200	8	160	318	165	200	200	52	349.0	12	1 1/8	M30	345	365
Class 900 PN15.0MPa	15	1/2	25	62	14	25	25	0.6	82.5	4	3/4	M20	125	140
	20	3/4	31.5	69	18	30	30	0.9	89.0	4	3/4	M20	135	150
	25	1	35.5	77	23	36	36	1.2	101.5	4	7/8	M24	155	170
	32	1 1/4	40	87	30	43	43	1.5	111.0	4	7/8	M24	160	175
	40	1 1/2	45	97	38	52	52	2.0	124.0	4	1	M27	175	190
	50	2	56	140	47	62	62	5.5	165.0	8	7/8	M24	195	210
	65	2 1/2	63	162	61	75	75	7.5	190.5	8	1	M27	215	230
	80	3	71	165	75	90	90	8	190.5	8	7/8	M24	210	225
	100	4	80	204	94	112	112	14	235.0	8	1 1/8	M30	245	260
	125	5	110	245	110	125	125	27	279.5	8	1 1/4	M33	290	310
	150	6	125	286	127	150	150	41	317.5	12	1 1/8	M30	310	325
	200	8	160	356	165	200	200	76	393.5	12	1 3/8	M36	375	390

## Wafer lift type check valve (GB)

Main Connection Dimension										
Nominal pressure (MPa)	Nominal diameter (mm)	Dimensions (mm)					Pipe flange (for reference)			
							Bolt hole center Diameter D1	Bolt Quantity	Screw diameter d	Bolt length L1
		L	D	D2	D3	D4				
PN1.0MPa PN1.6MPa (Long series)	15	25	52	14	25	25	65	4	M12	90
	20	31.5	62	18	30	30	75	4	M12	100
	25	35.5	72	23	36	36	85	4	M12	105
	32	40	83	30	43	43	100	4	M16	115
	40	45	93	38	52	52	110	4	M16	120
	50	56	108	47	62	62	125	4	M16	140
	65	63	128	61	75	75	145	4	M16	150
	80	71	142	75	90	90	160	8	M16	155
	100	80	162	94	112	112	180	8	M16	170
	125	110	192	110	125	132	210	8	M16	200
	150	125	218	127	150	158	240	8	M20	225
	200	160	273	165	200	208	295	8	M20	260
PN1.0MPa	250	200	328	220	250	266	350	12	M20	310
	300	250	378	260	300	310	400	12	M20	360
	350	280	438	305	350	355	460	16	M20	390
	200	160	273	165	200	208	295	12	M20	260
PN1.6MPa	250	200	329	220	250	266	355	12	M24	320
	300	250	384	260	300	310	410	12	M24	375
	350	280	444	305	350	355	470	16	M24	405
	15	25	52	14	25	25	65	4	M12	90
PN2.5MPa (Long series)	20	31.5	62	18	30	30	75	4	M12	100
	25	35.5	72	23	36	36	85	4	M12	105
	32	40	83	30	43	43	100	4	M16	115
	40	45	93	38	52	52	110	4	M16	120
	50	56	108	47	62	62	125	4	M16	140
	65	63	128	61	75	75	145	8	M16	150
	80	71	142	75	90	90	160	8	M16	165
	100	80	168	94	112	112	190	8	M20	180
	125	110	194	110	125	132	220	8	M24	225
	150	125	224	127	150	158	250	8	M24	245
	200	160	284	165	200	208	310	12	M24	285
	250	200	341	220	250	266	370	12	M27	335
300	250	401	260	300	310	430	16	M27	390	
350	280	458	305	350	355	490	16	M30	435	
PN4.0MPa (Long series)	15	25	52	14	25	25	65	4	M12	90
	20	31.5	62	18	30	30	75	4	M12	100
	25	35.5	72	23	36	36	85	4	M12	105
	32	40	83	30	43	43	100	4	M16	115
	40	45	93	38	52	52	110	4	M16	120
	50	56	108	47	62	62	125	4	M16	140
	65	63	128	61	75	75	145	8	M16	150
	80	71	142	75	90	90	160	8	M16	165
	100	80	168	94	112	112	190	8	M20	180
	125	110	194	110	125	132	220	8	M24	225
	150	125	224	127	150	158	250	8	M24	245
	200	160	291	165	200	208	320	12	M27	295
250	200	353	220	250	266	385	12	M30	355	
300	250	418	260	300	310	450	16	M30	415	
350	280	475	305	350	355	510	16	M33	455	

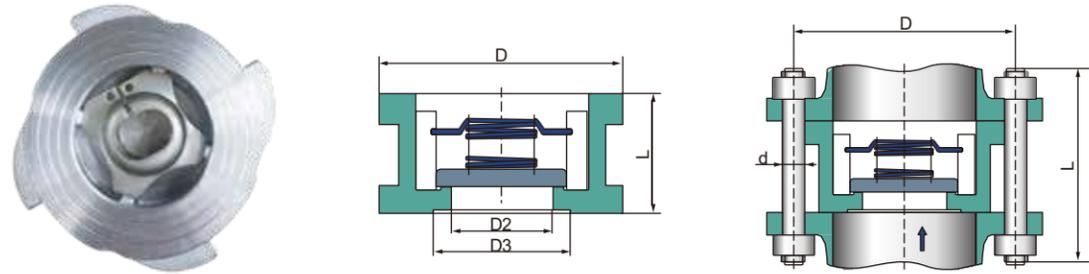
## Wafer lift type check valve (GB)

Main Connection Dimension											
Nominal pressure (MPa)	Nominal diameter (mm)	Dimensions (mm)					Weight (kg)	Pipe flange (for reference)			
		L	D	D2	D3	D4		Bolt hole center Diameter D1	Bolt Quantity	Screw diameter d	Bolt length L1
PN6.3MPa	15	25	62	14	25	25	0.5	75	4	M12	100
	20	31.5	73	18	30	30	0.7	90	4	M16	115
	25	35.5	83	23	36	36	1.0	100	4	M16	130
	32	40	89	30	43	43	1.3	110	4	M20	140
	40	45	104	38	52	52	2.0	125	4	M20	150
	50	56	114	47	62	62	3.2	135	4	M20	160
	65	63	138	61	75	75	4.5	160	8	M20	170
	80	71	148	75	90	90	5	170	8	M20	180
	100	80	174	94	112	112	7	200	8	M24	200
	125	110	211	110	125	132	13	240	8	M27	245
	150	125	248	127	150	158	22	280	8	M30	270
	200	160	310	165	200	208	40	345	12	M33	325
PN10.0MPa	15	25	62	14	25	25	0.6	75	4	M12	100
	20	31.5	73	18	30	30	1.0	90	4	M16	115
	25	35.5	83	23	36	36	1.3	100	4	M16	130
	32	40	89	30	43	43	1.6	110	4	M20	140
	40	45	104	38	52	52	2.5	125	4	M20	150
	50	56	120	47	62	62	3.8	145	4	M24	175
	65	63	144	61	75	75	6	170	8	M24	185
	80	71	154	75	90	90	7	180	8	M24	195
	100	80	181	94	112	112	10	210	8	M27	220
	125	110	218	110	125	132	18	250	8	M30	265
PN16.0MPa (JB/T74~90)	15	15	58	14	25	25	0.6	75	4	M16	70
	20	20	69	18	30	30	0.9	90	4	M20	85
	25	25	79	23	36	36	1.3	100	4	M20	90
	32	32	92	30	43	43	1.7	115	4	M22	100
	40	40	100	38	52	52	2.2	125	4	M24	110
	50	50	142	47	62	62	5.6	165	8	M22	115
	65	65	162	61	75	75	7.5	190	8	M27	130
	80	80	176	75	90	90	9	205	8	M27	140
	100	100	208	94	112	112	14	240	8	M30	155
	125	125	247	110	125	132	27	285	8	M36	195
150	150	280	127	150	158	38	318	12	M36	210	
200	200	356	165	200	208	76	400	12	M42	260	

## Wafer lift type check valve (GB)

Main Connection Dimension											
Nominal pressure (MPa)	Nominal diameter (mm)	Dimensions (mm)					Weight (kg)	Pipe flange (for reference)			
		L	D	D2	D3	D4		Bolt hole center Diameter D1	Bolt Quantity	Screw diameter d	Bolt length L1
PN16.0MPa (GB/T9112~9124) (HG 20592~20635)	15	25	62	14	25	25	0.6	75	4	M12	115
	20	31.5	73	18	30	30	1.0	90	4	M16	135
	25	35.5	83	23	36	36	1.3	100	4	M16	145
	32	40	89	30	43	43	1.6	110	4	M20	160
	40	45	104	38	52	52	2.5	125	4	M20	170
	50	56	120	47	62	62	3.8	145	4	M24	195
	65	63	144	61	75	75	6	170	8	M24	210
	80	71	154	75	90	90	7	180	8	M24	225
	100	80	181	94	112	112	10	210	8	M27	250
	125	110	218	110	125	132	18	250	8	M30	295
	150	125	258	127	150	158	30	290	12	M30	325
	200	160	325	165	200	208	58	360	12	M33	375

# Wafer lift type check valve (GB)



Casting a short series

### Main Connection Dimension

Nominal pressure (MPa)	Nominal diameter (mm)	Dimensions (mm)				Weight (kg)	Pipe flange (for reference)			
		L	D	D2	D3		Bolt hole center Diameter D1	Bolt Quantity	Bolt diameter d	Bolt length L1
PN1.0MPa PN 1.6MPa (Short Series)	15	16	52	14	24	0.12	65	4	M12	75
	20	19	62	18	30	0.24	75	4	M12	90
	25	22	72	23	36	0.34	85	4	M12	90
	32	28	83	30	46	0.53	100	4	M16	100
	40	31.5	93	38	55	0.80	110	4	M16	105
	50	40	108	47	65	1.2	125	4	M16	125
	65	46	128	61	80	1.8	145	4	M16	130
	80	50	142	75	96	2.2	160	8	M16	135
	100	60	162	94	115	3.4	180	8	M16	150
125	90	192	110	125	9.0	210	8	M16	180	
150	106	218	127	150	14	240	8	M20	210	
PN1.0MPa	200	140	273	165	200	24	295	8	M20	240
PN1.6MPa	200	140	273	165	200	24	295	12	M20	240
PN2.5MPa	15	16	52	14	24	0.12	65	4	M12	80
	20	19	62	18	30	0.24	75	4	M12	90
	25	22	72	23	36	0.34	85	4	M12	90
	32	28	83	30	46	0.53	100	4	M16	110
	40	31.5	93	38	55	0.80	110	4	M16	115
	50	40	108	47	65	1.2	125	4	M16	125
	65	46	128	61	80	1.8	145	8	M16	135
	80	50	142	75	96	2.2	160	8	M16	145
	100	60	168	94	115	3.8	190	8	M20	160
125	90	194	110	125	9.2	220	8	M24	205	
150	106	224	127	150	15	250	8	M24	225	
200	140	284	165	200	26	310	12	M24	260	
PN4.0MPa	15	16	52	14	24	0.12	65	4	M12	80
	20	19	62	18	30	0.24	75	4	M12	90
	25	22	72	23	36	0.34	85	4	M12	90
	32	28	83	30	46	0.53	100	4	M16	110
	40	31.5	93	38	55	0.80	110	4	M16	115
	50	40	108	47	65	1.2	125	4	M16	125
	65	46	128	61	80	1.8	145	8	M16	135
	80	50	142	75	96	2.2	160	8	M16	145
	100	60	168	94	115	3.8	190	8	M20	160
125	90	194	110	125	9.2	220	8	M24	205	
150	106	224	127	150	15	250	8	M24	225	
200	140	291	165	200	28	320	12	M27	275	

Note: 1, Different flange standards the rearsome differences in size, so the pipe flange bolt diameter, the length of L1 and other bolt size for reference only. The size of the table with the main pipe flanges to JB/T74~90 Standard Series 2 as the basis.  
2, RF raised face flange, said: MFM said convex surface of the flange: RJ said ring joint face flanges.

# Swash plate collision check valve

### Product Overview

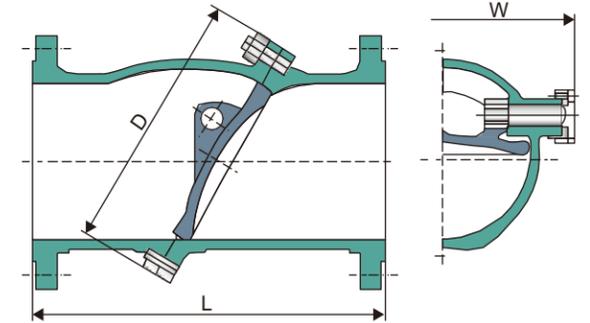
The cast-type non-leakage check valve is a new type of check valve developed by combining our company's years of production technology with advanced product designs from home and abroad. Its main advantages include overcoming energy loss, a wide range of opening, compact valve body, light weight, and no leakage during operation.

### Standards and Specifications

Product design technology: ASME B16.34  
Flange connection standard: ASME B16.10  
Flange size: ASME B16.5 GB HG SH  
Inspection and testing method: API 598  
Pressure rating: Class 150, 300, 600; PN2.0, 5.0, 10.0MPa

### Structural Features

1. Double eccentric valve disc, when the valve closes, the disc contacts the sealing surface, achieving no leakage during operation.
2. Micro-leakage integrated valve body, excellent sealing performance.
3. Cast valve body design, large opening, sensitive, and long service life.
4. The valve disc and structural features have a fluid passage type, which minimizes flow resistance and has energy-saving effects.



### Main Component Materials

Code	Valve Body	Valve Disc	Sealing Material	
P	CF8	CF8+STL	0Cr19Ni9	PTFE
R	CF8M	CF8M+STL	0Cr17Ni12Mo2	PTFE
K	CF3	CF3+STL	00Cr19Ni11	PTFE
J	CF3M	CF3M+STL	00Cr17Ni14Mo2	PTFE
E	CN7M	CN7M+STL	NO. 20 Cobalt	PTFE
C	WCB	WCB+13Cr	0Cr19Ni9	PTFE
D	LCB	CF8+STL	0Cr19Ni9	PTFE

### Comparison of Main Performance Characteristics

Performance	Cast-type Check Valve	Spiral-type Non-leakage Check Valve
Closing Force	Large	Small (about 1/5 to 1/8 of the former)
Exhaust Force	Large	None
Sealing Performance	According to API 598 Gas Permissible Leakage	Can achieve zero leakage
Flow Resistance	Large (Flow coefficient $g=1.3\sim 2.5$ )	
Flow Capability	Light (Flow coefficient $Cv=76$ )	Large (Flow coefficient $Cv=154\sim 333$ )
Weight	Larger	Lighter (about 80% of the former)

## Swash plate collision check valve

Class 150 Main Dimension

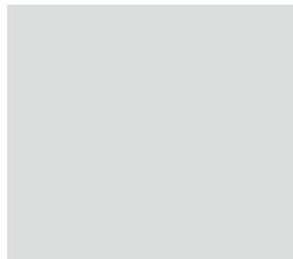
Nominal diameter	NPS	2	2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32
	DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800
L		203	216	241	292	356	495	622	698	787	864	978	978	1295	1295	1143	1143	1194
D		160	182	196	230	300	390	432	510	540	635	700	770	900	930	991	1020	1150
W		178	198	224	252	326	426	456	530	576	670	740	818	948	988	1050	1090	1240
Weight (Kg)		11	16	22	34	62	112	169	238	337	420	550	685	910	1055	1260	1540	1860

Class 300 Main Dimension

Nominal diameter	NPS	2	2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32
	DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800
L		267	292	318	356	444	533	622	711	838	864	978	1016	1346	1346	1295	1372	1448
D		170	196	214	245	320	400	460	540	580	660	725	800	940	970	1040	1080	1210
W		198	220	232	268	360	426	457	572	620	690	760	848	988	1018	1250	1280	1350
Weight (Kg)		17	22	32	97	110	162	228	380	443	530	780	980	1320	1364	1762	2050	2870

Class 600 Main Dimension

Nominal diameter	NPS	2	2	3	4	6	8	10	12	14	16	18	20	24
	DN	50	65	80	100	150	200	250	300	350	400	450	500	600
L		292	330	356	432	559	660	787	838	889	991	1092	1194	1397
D		185	196	210	270	340	440	520	570	610	690	755	850	990
W		212	225	240	298	405	460	492	602	650	710	780	902	1040
Weight (Kg)		27	44	47	115	190	320	430	586	750	1015	1480	2050	2550



## Wafer check valve model methodology

1 2 3 4 5 6 - 7 8 - 9 10 - 11

Unit	Meaning	Code and description of each unit	
1	Special features	H-slow closing mechanism with damping; N-has anti-sulfur requirements (NACE) of the valve; no special features omitted, the unit	
2	Valve type	H	
3	Actuated Type	Check valve is omitted the unit	
4	Connection Type	7-wafer; 7J-wafer, ring joint surface; 4- flange connection; 4J-flange connection, ring joint face	
5	Construction Type	1- Lift; 6- double disc swing	
6	Sealing Face	H-13Cr/13Cr; W-body materials; Y-stainless steel/ carbide; M-Monel; E-carbide /carbide; A-52 alloy; T-copper alloy; X-nitrile rubber; F-PTFE; S-fluorine rubber; K-EPDM ethylene propylene diene monomer; G-silicone rubber	
7	Pressure level	Nominal (European system)	6-PN0.6MPa; 10-PN1.0MPa; 16-PN1.6MPa; 25-PN2.5MPa; 40-PN4.0MPa; 63-PN6.3MPa; 100-PN10.0MPa; 160-PN16.0MPa; 250-PN25.0MPa
		Nominal (Inter-American System)	20-PN2.0MPa; 50-PN5.0MPa; 110-PN11.0MPa; 150-PN15.0MPa; 260-PN26.0MPa; 420-PN42.0MPa
		Pound	A1-Class150; A3-Class300; A4-Class400; A6-Class600; A9-Class900; A15-Class1500; A25-Class2500
		JIS K-Class	K1-JIS 10K; K2-JIS 20K
8	Body Material	C-WCB, A105; C6-WC6, F11; C9-WC9, F22; CL-LCB, LF1; P8-CF8, 304; P3-CF3, 304L; R8-CF8M, 316; R3-CF3M, 316L; P+\G1Cr18Ni9Ti, 1Cr18Ni9Ti; R-\G1Cr18Ni12Mo2Ti, 1Cr18Ni12Mo2Ti;	
9	Trim materials	User does not have special Requirements of this code is omitted	P8-304; P3-304L; R8-316; R3-316L; M-Monel; A-20 alloy; T-copper alloy; Ti-titanium and titanium alloy
10	Spring material		P8-304; P3-304L; R8-316; R3-316L; N6-Inconel 600; N7-Inconel 750
11	Auxiliary marker	Under normal circumstances The code is omitted	L-PN1.0~PN4.0MPa a long series of valve lift on the folder; D-PN16.0MPa pressure level, the use of GB/T9112~9124, HG20592~20614, DIN 2543-2548 standard check valve flange; T-lug on the wafer using the structure of the double disc swing check valve.

## Wafer check valve selection and ordering information



Flowers flange



Round flange



Real Round flange

### Ordering information

1. Nominal size greater than or equal Dn100mm (NPS4), to use H76 double disc wafer type swing check valve is appropriate, the check valve can effectively reduce the loss of fluid resistance: Nominal size less than or equal DN80mm (NPS3) to use H71-type wafer lift check valve is appropriate.

2. Nominal size of less than or equal Dn100mm (NPS4) of the H71-type wafer lift check valve as compact, while taking into account the manufacturing process, generally does not produce carbon steel check valve, the user is made of stainless steel lift check valve Wafer.

3. We company Lug wafer can produce double-disc swing check valve, but the order should be specified. Generally recommend that users use conventional wafer type check valve, so that users can save costs, shorten delivery time, and the conventional wafer type check valve and lug wafer type check valve performance identical. Lug Wafer Check Valve There are several structures, if the user does not have special requirements, structure generally determine the Company under the manufacturing process. Generally less than or equal the number of flange bolt holes 12 lugs with flowers flange, flange bolt hole number greater than or equal to 16 lugs with around flange, forged steel valve flange generally use solid round.

4. Part of the double disc swing check valves dual flange design (H46 type), you can double check valve flange design specifications of the table below, the length of the valve structure due to the restrictions, some of the specifications of the valve door can not be dual-flange structural design.

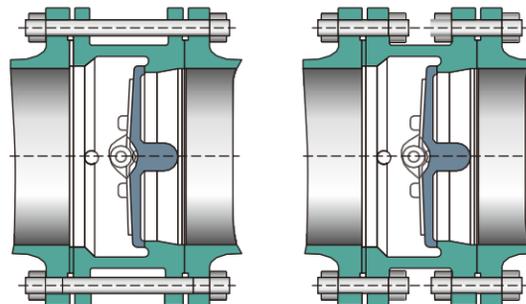
Double flange design can double valve swing check valve size range									
Pressure	Class 150 PN20	Class 300 PN50	Class 600 PN110	Class 900 PN150	PN10 PN16	PN25	PN40	PN63	PN100
Diameter	≥NPS6	≥NPS8	≥NPS10	≥NPS10	≥DN125	≥DN200	≥DN200	≥DN150	≥DN250
Range	≥DN150	≥DN200	≥DN250	≥DN250					

5. Lug wafer double disc swing check valve's lug positioning flange only from the role of lug bolts do not bear the force, so the thickness of the flange lugs are not at the standard thickness of flange design, usually lug flange thickness is less than the thickness of standard flanges. And then double-valve double flanged swing check valve flange bolt force to bear, the flange thickness at the flange standard design.

6. Nominal PN1.0MPa, PN1.6MPa, PN2.5MPa and PN4.0MPa the wafer lift check valve, there are two structural length series. Check valve with a short series of lower prices, but between the valve and pipe flange connection may need to use non-standard pads, if we adopt a long series of check valves, can be prepared the standard flange gasket.

7. In order to facilitate the use of user, the company provides wafer type check valve supporting flanges, gaskets, bolts and nuts, but users need to specify when ordering.

8. Typical products according to the models listed in the order samples, and other products can be identified in this type of model for the sample order, as well as special requirements, please be stated in the contract.



Lug wafer double disc swing check valve and pipe flange connection      Double valve double flanged swing check valve and the pipe flange connection