

► INDUSTRIAL VALVES

工业阀门

**PAV®**  
WENZHOU  
PAV VALVE CO., LTD

**CHECK VALVE SERIES**  
**止回阀系列**



[www.pipe-armaturen.com](http://www.pipe-armaturen.com)

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## WAFER TYPE CHECK VALVE OVERVIEW

### 对夹式止回阀概述

#### 用途

对夹式止回阀适用于公称压力PN1.0MPa~42.0MPa、Class150~2500；公称通径DN15~1200mm、NPS1/2~48；工作温度-196~540℃的各种管路上，用于防止介质倒流。通过选用不同的材质，可适用于水、蒸汽、油品、硝酸、醋酸、强氧化性介质及尿素等多种介质。

#### 标准与规范

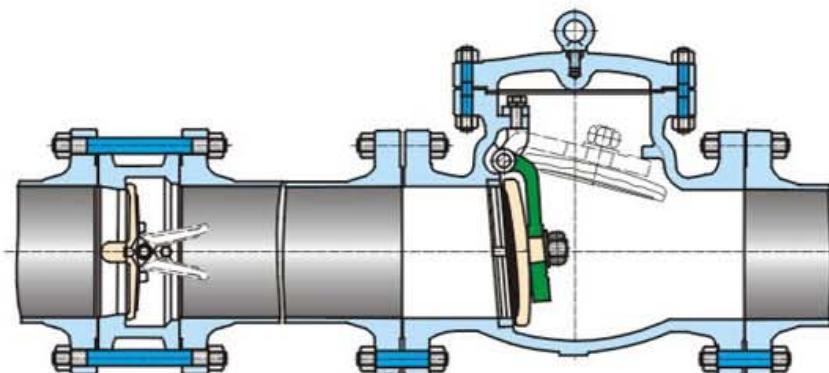
- 设计与制造：API594、API6D、JB/T8937；
- 结构长度：API594、API6D、DIN3202、JB/T8937；
- 压力-温度等级：ASME B16.34、DIN2401、GB/T12224；
- 试验与检验：API598、GB/T26480；
- 配管法兰：JB/T74-90、GB/T9113、HG20592~20635、SH3406、ASME B16.5、DIN2543~2548、GB/T13402、API605、ASME B16.47。

#### 结构特点

- |                                  |                   |
|----------------------------------|-------------------|
| 1、结构长度短，其结构长度只有传统法兰止回阀的1/4~1/8；  | 6、动作灵敏、密封性能好；     |
| 2、体积小、重量轻，其重量只有传统法兰止回阀的1/4~1/20； | 7、阀瓣行程短、关闭冲击力小；   |
| 3、阀瓣关闭快速，水锤压力小；                  | 8、整体结构、简单紧凑、造型美观； |
| 4、水平管道或垂直管道均可使用，安装方便；            | 9、使用寿命长、可靠性高。     |
| 5、流道通畅、流体阻力小；                    |                   |

#### 旋启式止回阀对比

结构形式	H76型对夹双瓣旋启式止回阀	H44型法兰单瓣旋启式止回阀
水锤压力	小，阀瓣行程短、且有弹簧辅助关闭、关阀速度快 H76型的水锤压力只有H44型的1/2~1/5	很大，阀瓣行程长，需要较长的关闭时间
尺寸和重量	结构长度很短、体积小、重量轻，为阀门的安装、搬运、存放及管道的布置带来很大的便利，并能大量节约材料、降低造价 H76型的结构长度只有H44型的1/4~1/6，H76型的重量只有H44型的1/4~1/10	结构长度很长，体积笨大，重量很重
流体阻力	小，流体阻力系数 $\xi$ 为2.6~0.7，随着阀门口径的增大，流体阻力系数减小	小，流体阻力系数 $\xi$ 为1.3~3，但在低压工况下，阀瓣不能完全开启，流体阻力大。流体阻力随着阀门口径的增大而增大
安装	可水平安装或垂直安装，重量轻，不必为阀门设置支座	可水平安装或垂直安装，大口径阀门重量重，需设置支座
开启压力	很小，阀瓣在很小的压差下就能完全打开	较大，阀瓣在较大的压差下才能完全打开
可靠性	阀体为整体结构，简单紧凑、阀门关闭时冲击力小，水锤压力小，阀门寿命长，可靠性高	阀门关闭时的巨大冲击力及水锤压力容易损坏阀门



H76型对夹双瓣旋启式止回阀

H44法兰单瓣旋启式止回阀

## WAFER TYPE CHECK VALVE OVERVIEW

### 对夹式止回阀概述

#### Use

Wafer check valve is applicable for various pipelines with nominal pressure of PN1.0MPa~42.0MPa, Class150~2500 and nominal diameter of DN 15~1200mm, NPS1/2~48 and working temperature of -196~540°C to be used for protecting from medium backflowing. 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

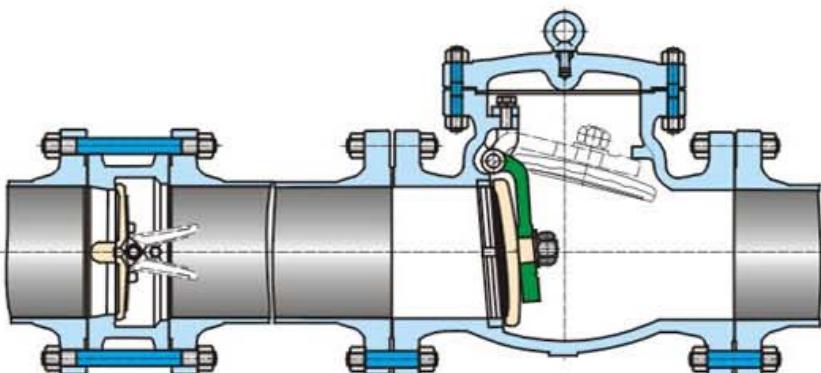
- 1.Design and manufacture:API594,API6D,JB/T8937;
- 2.Face to face and end and end:API594,API6D,DIN3202,JB/T8937;
- 3.Pressure-temperature ratings ASME B16.34,DIN2401,GB/T12224;
- 4.Inspection and test:API598、GB/T26480;
- 5.Pipe flange:JB/T74-90,GB/T9113,HG20592-20635,SH3406,ASME B16.5,DIN2543~2548,GB/T13402,API605,ASME B16.47。

#### Structural feature

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

#### Swing check valve contrast

Structure	H76-type wafer double disc swing check valve	H44 Flange Swing Check Valve univalue
Water hammer pressure	Small disc a short trip, and a spring assisted closure, close the valve fast	Large valve travel, and require a longer closing time
	H76 Type H44-type water hammer pressure is only 1/2 to /5	
Dimensions & Weight	Very short structural length, low volume and light mass gives a vast convenients for installation, portage, storage and pipeline arrangement of valves, moreover, it can greatly reduce materials and cut construction cost.	A long length of the structure, volume stupid big, heavy weight
	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	
Fluid resistance	Small, fluid resistance coefficient $\xi$ of 2.6 to 0.7, with the valve diameter increases, the fluidresistance 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, do not 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 pressure in a small can fully open	Larger in larger valve can be fully opened under pressure
Reliability	The valve body is of integrated structure, simple andcompact, 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



H76-type wafer double disc swing check valve

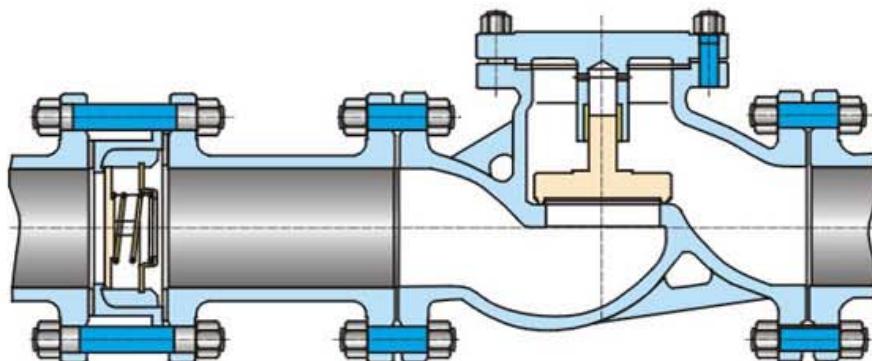
H44 ill with Swing Check Valve Flange

## WAFER TYPE CHECK VALVE OVERVIEW

### 对夹式止回阀概述

#### 升降式止回阀对比

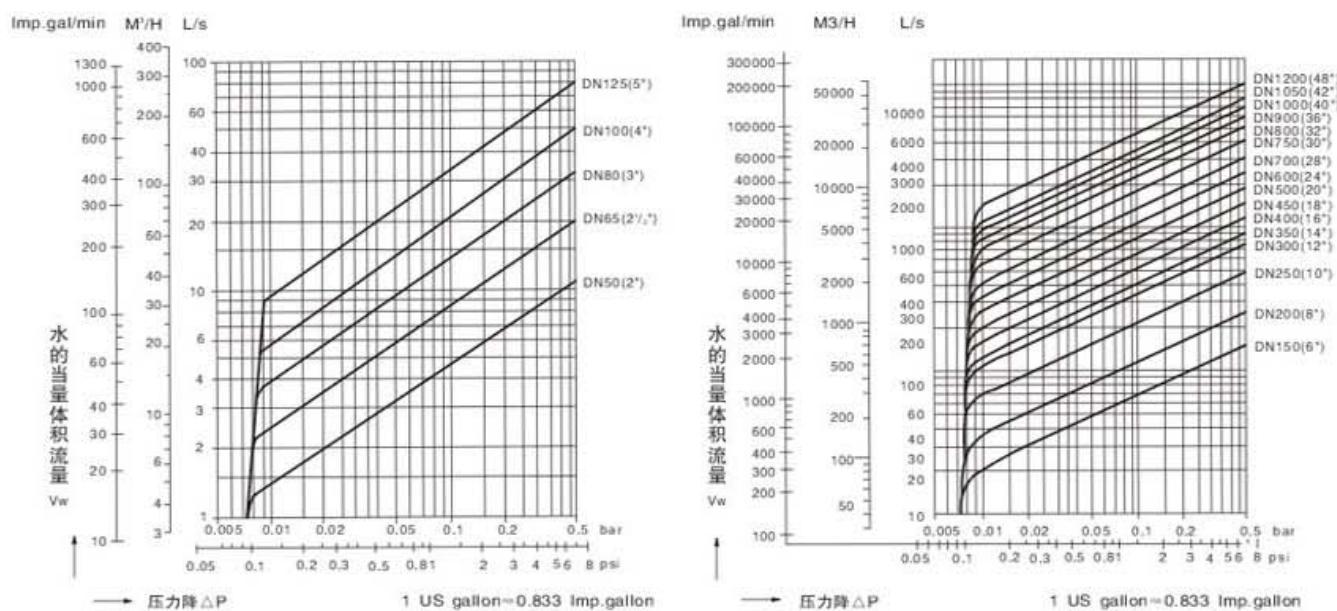
结构形式	H71型对夹升降式止回阀	H41型法兰升降式止回阀
水锤压力	很小，阀瓣行程短、阀瓣轻巧、且有弹簧辅助关闭、阀门速度快	小，阀瓣行程短，但无弹簧辅助关闭
尺寸和重量	结构长度很短、体积小、重量很轻，为阀门的安装、搬运、存放及管道的布置带来很大的便利，并能大量节约材料、降低造价  H71型的结构长度只有H41型的1/4~1/8，H71型的重量只有H41型的1/7~1/20	结构长度很长，体积较大，重量很重
流体阻力	较大，流体阻力系数 $\xi$ 为6.4~2.8	很大，流体阻力系数 $\xi$ 为12~6
安装	可水平安装或垂直安装，重量很轻，安装容易	只有水平安装，口径较大的阀门重量重，较难安装
开启压力	很小，阀瓣在很小的压差下就能完全打开	较小，阀瓣重量较大，需要一定的压差才能将阀瓣完全打开
可靠性	阀体为整体结构，简单紧凑、阀门关闭时冲击力小，水锤压力很小，阀门寿命长，可靠性高	可靠性较高，但阀门由阀体与阀盖两体构成，多了一个潜在的泄漏点



H71型对夹升降式止回阀

H41型法兰升降式止回阀

#### 流体力学性能/H76型对夹双瓣旋启式止回阀的体积流量与压力降关系

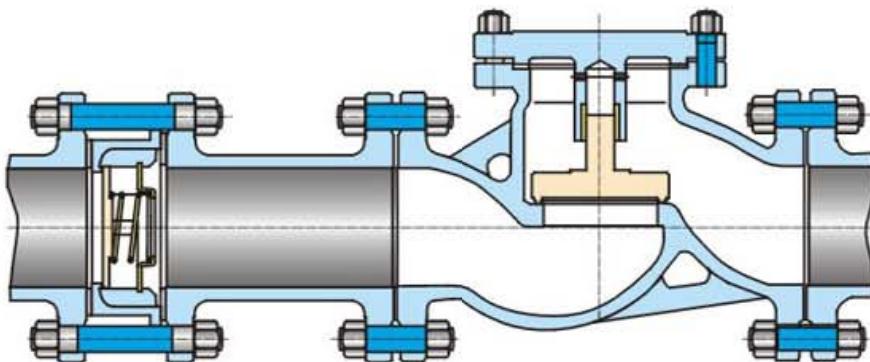


## WAFER TYPE CHECK VALVE OVERVIEW

### 对夹式止回阀概述

#### Elevating check valve contrast

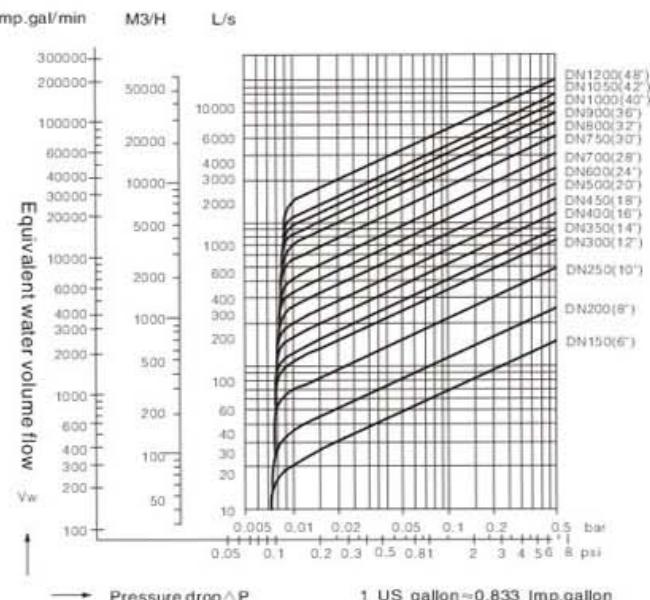
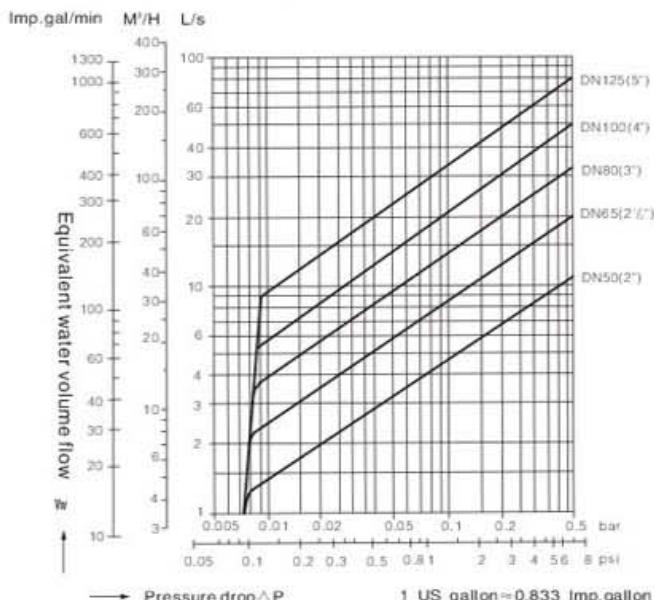
Structure	H71-type wafer lift check valve	H41 type flange lift check valve
Water hammer pressure	Small valve stroke is short, compact disc, and a spring assisted closure, off valve fast	Small disc a short trip, but no spring assisted closure
Dimensions & Weight	Very short structural length, low volume and light mass gives a vast conveniences for installation, portage, storage and pipeline arrangement of valves, moreover, it can greatly reduce materials and cut construction cost.	Length of the structure is very long, bulky, heavy weight
	Only the length of the structure type H71 H41 type 1/4 ~ 1/8, H71 Type H41 Type weighs only 1/7~1/20	
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 small can fully open	Small, the weight of the larger valve, requires a certain pressure to fully open the valve flap
Reliability	The valve body is of integrated structure, simple and compact, small closedown impact, low water hammer pressure, long service life and good reliability	High reliability, but the valve body and valve cover from the two-body composition, more than a potential the leak



H71-type wafer lift check valve

H41 type Flange lift check valve

Hydromechanics performance /H76 to clamps the double petal to turn on lathe opens The type check valve the rate of volume flow and the pressure drop relations



## WAFER TYPE CHECK VALVE OVERVIEW

### 对夹式止回阀概述

流体力学性能/对夹双瓣旋启式止回阀的流体阻力系数

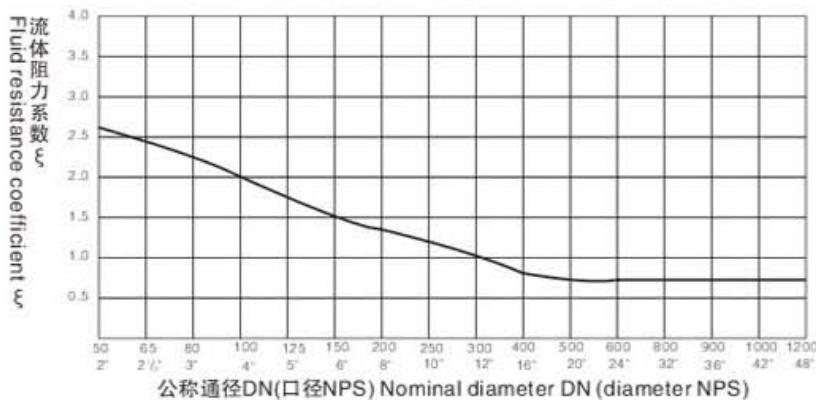
The hydromechanics performance/to clamps the double petal to turn on lathe opens the type check valve the fluid resistance coefficient

水的当量体积流量Vw与实际流体的体积流量V按下式换算:

$$V_w \text{ volume flow of water equivalent volume of fluid flow and the actual press-type conversion V: } V_w = \sqrt{\frac{\rho}{1000}} \cdot V$$

式中: Vw—水的当量体积流量, l/s;  $\rho$ —流体密度, kg/m<sup>3</sup>; V—实际流体的体积流量, l/s。

Where: Vw – equivalent volume rate of flow, l/s;  $\rho$  – fluid density, kg/m<sup>3</sup>; V – Actual volume rate of flow, l/s.



流体力学性能/对夹双瓣旋启式止回阀流体阻力系数、流量系数及开启压力

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

公称通径 Norminal diameter		阀门全开启时的流体阻力系数 $\xi$ When the valve is fully open fluid resistance coefficient $\xi$	常温下阀门开启时的水流量系数 Room temperature, water flow when the valve opening coefficient			流体的流向 Fluid flow	
			Kv(m <sup>3</sup> /h)	Cv(U.S)	Cv(U.K)	↑	→
DN	NPS					开启压力近似值KPa Open the pressure approximation Kpa	
50	2	2.6	63	74	62	2	1
65	2½	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

## WAFER TYPE CHECK VALVE OVERVIEW

### 对夹式止回阀概述

流体力学性能/对夹单瓣升降式止回阀的体积流量与压力降关系

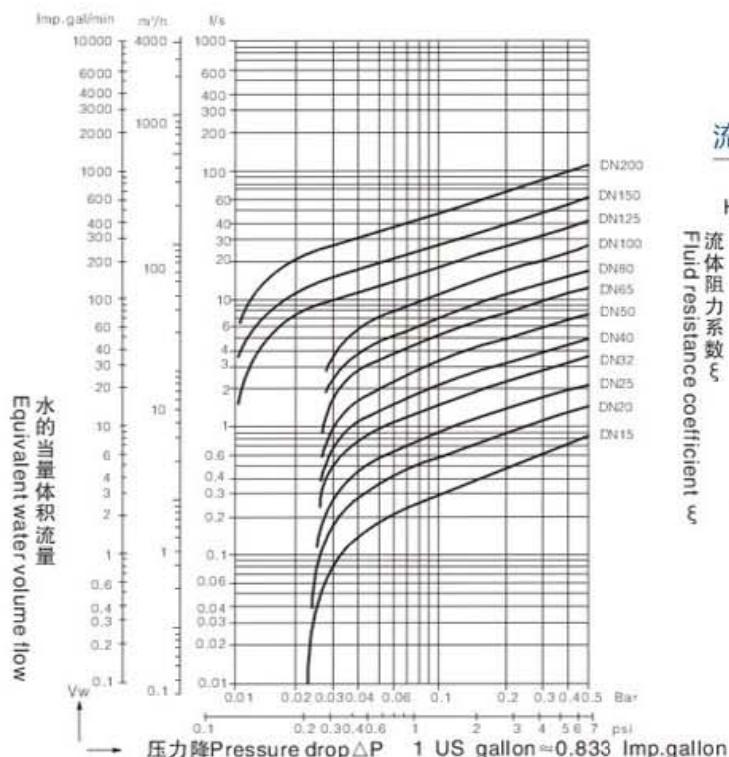
The hydromechanics performance/to clamps the single-lobe elevating check valve the rate of volume flow and the pressure drop relations

水的当量体积流量V<sub>w</sub>与实际流体的体积流量V按下式换算:

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

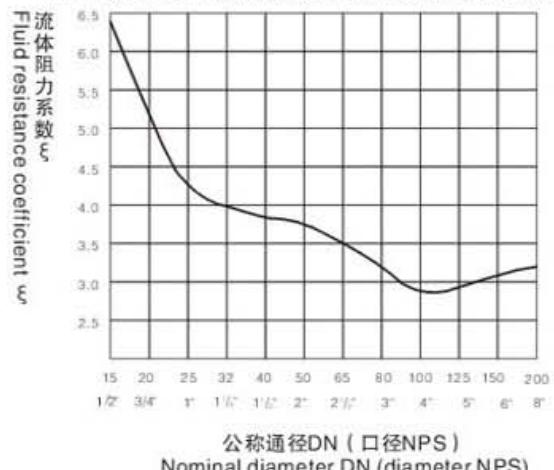
式中: V<sub>w</sub>—水的当量体积流量, l/s; ρ—流体密度, kg/m<sup>3</sup>; V—实际流体的体积流量, l/s。

Where: V<sub>w</sub> – equivalent volume rate of flow, l/s; ρ – fluid density, kg/m<sup>3</sup>; V – Actual volume rate of flow, l/s.



### 流体力学性能 Hydromechanics performance

H71型对夹升降式止回阀流体阻力系数  
H71-type wafer lift check valve flow resistance coefficient



公称通径DN (口径NPS)  
Nominal diameter DN (diameter NPS)

流体力学性能/对夹单瓣升降式止回阀流体阻力系数、流量系数及开启压力

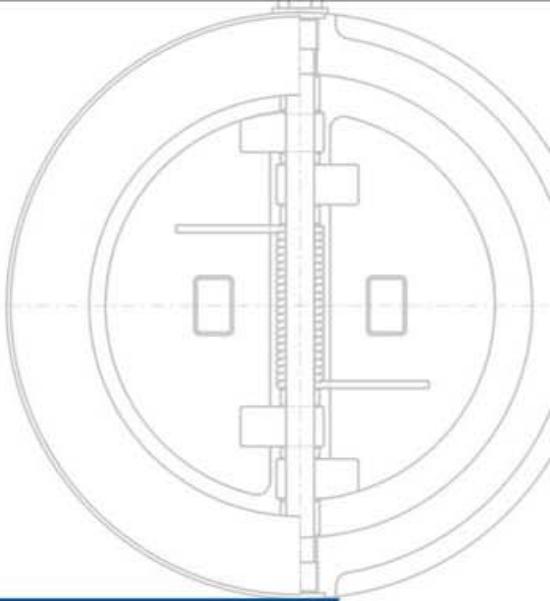
The hydromechanics performance/to clamps the single-lobe elevating check valve fluid resistance coefficient, the discharge coefficient and the opening pressure

公称通径 Nominal diameter		阀门全开启时的 流体阻力系数 ξ When the valve is fully open fluid resistance coefficient ξ	常温下阀门开启时的水流量系数 Room temperature, water flow when the valve opening coefficient			流体的流向 Fluid flow		
			Kv(m³/h)	Cv(U.S)	Cv(U.K)	↑	↓	→
DN	NPS					开启压力近似值KPa 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

# PAV®

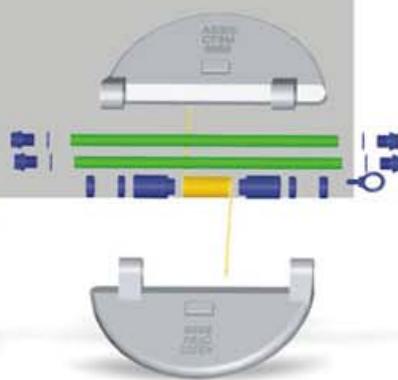
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WENZHOU PAV VALVE CO.,LTD



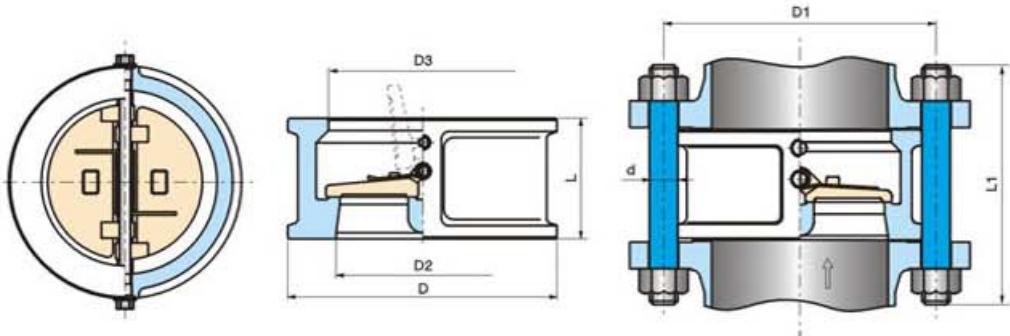
**H76型** 美标系列 / 国标系列  
API Series/GB Series

**H76型对夹双瓣旋启式止回阀**  
**Wafer Type Double Disc Swing Check Valve**



## WAFER TYPE DOUBLE DISC SWING CHECK VALVE (API)

H76 型外置对夹双瓣旋启式止回阀(美标)



压力级 Pressure level	口径 Size		尺寸 Dimensions(mm)				重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)					
	DN	NPS	L	D	D2	D3		D1	螺栓数量 Bolt Quantity	螺栓直径d Bolt diameter d		螺栓长度L1 Bolt length L1	
										in	mm	RF	RTJ
Class150 PN20	40	1 1/2	60	83	38	45	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
	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
Class150 PN20	600	24	222	715	600	605	331	749.5	20	1 1/4	M33	405	420
	650	26	222	722	633	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	880	893	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	1040	1045	960	1171.5	48	1	M27	625	-
	1100	44	432	1193	1070	1070	1150	1222	52	1	M27	630	-
	1200	48	524	1302	1166	1200	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	900	-

## WAFER TYPE DOUBLE DISC SWING CHECK VALVE (API)

H76 型外置对夹双瓣旋启式止回阀(美标)

压力级 Pressure level	口径 Size		尺寸 Dimensions(mm)			重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)						
	DN	NPS	L	D	D2	D3	D1	螺栓数量 Bolt Quantity	螺栓直径d Bolt diameter d	in	mm	RF	
Class150 PN20  ASME B16.47A MSS SP-44	1650	66	787	1881	1630	1663	5345	1930.5	52	1 <sup>1</sup> / <sub>4</sub>	M45×3	1075	-
	1800	72	851	2046	1780	1818	6100	2095.5	60	1 <sup>1</sup> / <sub>4</sub>	M45×3	1145	-
	1950	78	927	2204	1930	1973	8185	2260.5	64	2	M52×3	1250	-
	2100	84	1041	2369	2080	2115	10220	2425.0	64	2	M52×3	1365	-
	650	26	222	770	633	650	380	806.5	24	1 <sup>1</sup> / <sub>4</sub>	M33	450	-
	700	28	305	827	700	700	400	863.5	28	1 <sup>1</sup> / <sub>4</sub>	M33	535	-
	750	30	305	878	746	750	440	914.5	28	1 <sup>1</sup> / <sub>4</sub>	M33	545	-
	800	32	305	935	796	800	580	978	28	1 <sup>1</sup> / <sub>2</sub>	M39×3	570	-
	900	36	368	1045	880	893	660	1086	32	1 <sup>1</sup> / <sub>2</sub>	M39×3	650	-
	1000	40	432	1158	976	985	890	1200	36	1 <sup>1</sup> / <sub>2</sub>	M39×3	710	-
	1050	42	432	1213	1040	1045	980	1257.5	36	1 <sup>1</sup> / <sub>2</sub>	M39×3	730	-
	1100	44	432	1274	1070	1070	1170	1314.5	40	1 <sup>1</sup> / <sub>2</sub>	M39×3	730	-
	1200	48	524	1380	1166	1200	1450	1422.5	44	1 <sup>1</sup> / <sub>2</sub>	M39×3	840	-
	1350	54	591	1545	1312	1315	2300	1594	44	1 <sup>3</sup> / <sub>4</sub>	M45×3	950	-
	1400	56	591	1602	1360	1370	2850	1651	48	1 <sup>3</sup> / <sub>4</sub>	M45×3	955	-
	1500	60	660	1710	1458	1470	3225	1759	52	1 <sup>3</sup> / <sub>4</sub>	M45×3	1040	-
Class 300 PN50	50	2	60	110	51	58	3	127.0	8	5/ <sub>8</sub>	M16	155	175
	65	2 <sup>1</sup> / <sub>2</sub>	67	128	65	73	4	149.0	8	3/ <sub>4</sub>	M20	175	195
	80	3	73	147	80	88	6	168.5	8	3/ <sub>4</sub>	M20	190	210
	100	4	73	179	102	108	8	200.0	8	3/ <sub>4</sub>	M20	195	215
	125	5	86	214	127	132	15	235.0	8	3/ <sub>4</sub>	M20	215	235
	150	6	98	249	152	160	18	270.0	12	3/ <sub>4</sub>	M20	230	250
	200	8	127	305	203	210	31	330.0	12	7/ <sub>8</sub>	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 <sup>1</sup> / <sub>8</sub>	M30	365	385
	350	14	222	483	350	355	117	514.5	20	1 <sup>1</sup> / <sub>8</sub>	M30	410	430
	400	16	232	537	400	405	190	571.5	20	1 <sup>1</sup> / <sub>4</sub>	M33	435	455
	450	18	264	594	450	455	200	628.5	24	1 <sup>1</sup> / <sub>4</sub>	M33	475	495
	500	20	292	652	500	505	265	686.0	24	1 <sup>1</sup> / <sub>4</sub>	M33	510	535
	600	24	318	772	600	608	410	813.0	24	1 <sup>1</sup> / <sub>2</sub>	M39×3	560	585
Class 300 PN50  ASME B16.47B、 API 605、 GB/T 13402	650	26	356	767	633	640	565	803	32	1 <sup>1</sup> / <sub>4</sub>	M33	625	-
	700	28	368	821	685	685	585	857	36	1 <sup>1</sup> / <sub>4</sub>	M33	635	-
	750	30	368	882	735	740	660	921.0	36	1 <sup>3</sup> / <sub>8</sub>	M36×3	650	-
	800	32	368	936	784	784	970	978	32	1 <sup>1</sup> / <sub>2</sub>	M39×3	675	-
	900	36	483	1044	873	880	1020	1089.0	32	1 <sup>5</sup> / <sub>8</sub>	M42×3	800	-
	1000	40	546	1146	976	985	1420	1191	40	1 <sup>5</sup> / <sub>8</sub>	M42×3	885	-
	1050	42	568	1196	1020	1020	1540	1244.5	36	1 <sup>3</sup> / <sub>4</sub>	M45×3	920	-
	1200	48	629	1365	1166	1190	2260	1416.0	40	17/ <sub>8</sub>	M48×3	1010	-
	1350	54	718	1526	1312	1315	3102	1578	48	17/ <sub>8</sub>	M48×3	1140	-
	1500	60	838	1704	1458	1470	4315	1764	40	2 <sup>1</sup> / <sub>4</sub>	M56×3	1280	-

## WAFER TYPE DOUBLE DISC SWING CHECK VALVE (API)

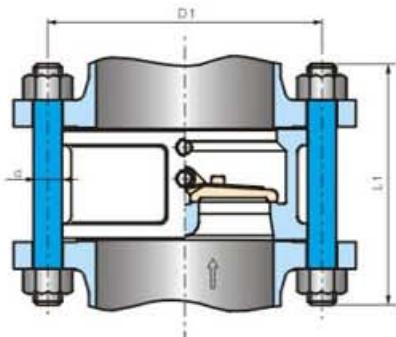
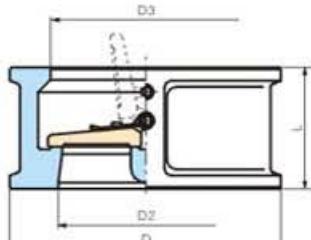
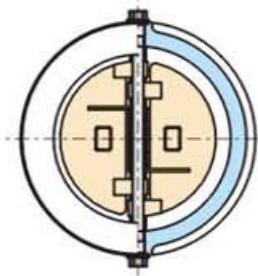
### H76 型外置对夹双瓣旋启式止回阀(美标)

压力级 Pressure level	口径 Size		尺寸 Dimensions(mm)			重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)						
	DN	NPS	L	D	D2	D3	D1	螺栓数量 Bolt Quantity	螺栓直径d Bolt diameter d	螺栓长度L1 Bolt length L1	in	mm	RF
Class 300 PN50  ASME B16.47A, MSS SP-44	650	26	356	831	633	640	580	876	28	15/8	M42×3	625	-
	700	28	368	895	685	685	600	940	28	15/8	M42×3	650	-
	750	30	368	949	735	740	680	997	28	13/4	M45×3	665	-
	800	32	368	1003	784	784	990	1054	28	17/8	M48×3	685	-
	900	36	483	1113	873	880	1050	1168.5	32	2	M52×3	820	-
	1000	40	546	1110	976	985	1400	1156	32	15/8	M42×3	885	-
	1050	42	568	1161	1020	1020	1520	1206.5	32	15/8	M42×3	915	-
	1200	48	629	1320	1166	1190	2250	1371.5	32	17/8	M48×3	1015	-
	1350	54	718	1489	1312	1315	3080	1549.5	28	21/4	M56×3	1160	-
	1500	60	838	1642	1458	1470	4300	1702	32	21/4	M56×3	1305	-
Class 600 PN110  ASME B16.47B、 API 605、 GB/T 13402	50	2	60	110	51	58	4	127.0	8	5/8	M16	175	180
	65	21/2	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	11/8	M30	370	375
	250	10	213	398	250	266	95	432.0	16	11/4	M33	440	445
	300	12	229	455	305	312	140	489.0	20	11/4	M33	460	465
	350	14	273	490	337	355	223	527.0	20	13/8	M36×3	520	525
	400	16	305	562	387	400	360	603.0	20	11/2	M39×3	575	580
	450	18	362	610	438	450	395	654.0	20	15/8	M42×3	650	655
	500	20	368	680	489	500	518	724.0	24	15/8	M42×3	670	680
	600	24	438	786	591	600	836	838.0	24	17/8	M48×3	780	795
Class 600 PN110  ASME B16.47B、 API 605、 GB/T 13402	650	26	457	761	633	640	950	806.5	28	15/8	M42×3	790	805
	700	28	483	815	684	690	1215	863.5	28	13/4	M45×3	830	845
	750	30	505	875	735	740	1378	927	28	17/8	M48×3	875	890
	800	32	533	928	779	784	1643	984	28	2	M52×3	920	940
	900	36	635	1045	874	880	2120	1105	28	21/4	M56×3	1065	1085
Class 600 PN110  ASME B16.47A、 MSS SP-44	650	26	457	863	633	640	980	914.5	28	17/8	M48×3	795	810
	700	28	483	910	684	690	1250	965	28	2	M52×3	835	850
	750	30	505	967	735	740	1420	1022.5	28	2	M52×3	860	905
	800	32	533	1020	779	784	1700	1079.5	28	21/4	M56×3	905	925
	900	36	635	1126	850	850	2200	1194	28	21/4	M64×3	1035	1055
	1000	40	660	1153	976	985	2650	1213	32	21/4	M56×3	1115	-
	1050	42	702	1215	1020	1030	3135	1283	28	21/2	M64×3	1190	-
	1200	48	787	1386	1166	1170	3755	1460.5	32	23/4	M70×3	1330	-
Class 900 PN150	50	2	70	140	51	58	8	165.0	8	7/8	M24	225	230
	65	21/2	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	11/8	M30	285	290



## WAFER TYPE DOUBLE DISC SWING CHECK VALVE (GB)

H76 型外置对夹双瓣旋启式止回阀(国标)



公称压力 Nominal pressure	公称尺寸 Nominal size	尺寸 Dimensions(mm)				重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)			
		L	D	D2	D3		D1	螺栓数量 Bolt Quantity	螺栓直径d Bolt diameter	螺栓长度L1 Bolt length
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
	600	222	696	600	605	320	725	20	M27	355
	700	305	811	700	700	380	840	24	M27	440
	800	305	918	796	800	560	950	24	M30	450
	900	368	1018	880	893	640	1050	28	M30	520
	1000	432	1124	976	985	900	1160	28	M33	590
	1200	524	1340	1166	1200	1400	1380	32	M36	695
PN16	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	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	700	700	380	840	24	M33	470
	800	305	912	796	800	560	950	24	M36	475
	900	368	1012	880	893	640	1050	28	M36	545
	1000	432	1126	976	985	900	1170	28	M39	620
	1200	524	1340	1166	1200	1400	1390	32	M45	735

## WAFER TYPE DOUBLE DISC SWING CHECK VALVE (GB)

### H76 型外置对夹双瓣旋启式止回阀(国标)

公称压力 Nominal pressure	公称尺寸 Nominal size	尺寸 Dimensions(mm)				重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)			
		L	D	D2	D3		D1	螺栓数量 Bolt Quantity	螺栓直径d Bolt diameter d	螺栓长度L1 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	8	M24	205
	150	98	224	152	160	14	250	8	M24	220
	200	127	284	203	210	27	310	12	M24	255
	250	146	341	254	266	42	370	12	M27	285
	300	181	401	305	310	54	430	16	M27	325
	350	184	458	350	355	86	490	16	M30	340
	400	191	515	400	405	120	550	16	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	700	700	400	875	24	M39	500
	800	305	942	796	800	580	990	24	M45	520
	900	368	1040	880	893	660	1090	28	M45	590
	1000	432	1155	976	985	960	1210	28	M52	675
	1200	524	1365	1166	1200	1440	1420	32	M52	790

公称压力 Nominal pressure	公称尺寸 Nominal size	尺寸 Dimensions(mm)				重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)			
		L	D	D2	D3		D1	螺栓数量 Bolt Quantity	螺栓直径d Bolt diameter d	螺栓长度L1 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
	50	60	114	51	58	4	135	4	M20	170
	65	67	138	65	73	5	160	8	M20	180
	80	73	148	80	88	7	170	8	M20	190
	100	79	174	102	108	10	200	8	M24	210
	125	105	211	127	136	16	240	8	M27	250
	150	136	248	152	162	20	280	8	M30	290
	200	165	310	200	212	38	345	12	M33	335
	250	213	362	250	266	62	400	12	M33	395
	300	229	422	305	310	100	460	16	M33	420
	350	273	487	337	355	160	525	16	M36	480
	400	305	541	387	400	260	585	16	M39	525
										540

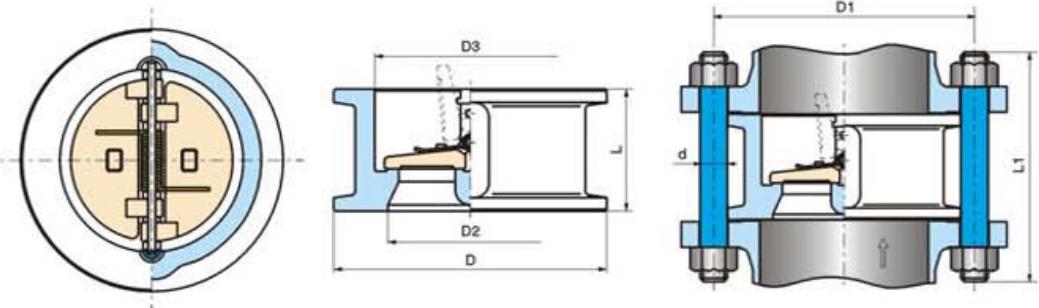
## WAFER TYPE DOUBLE DISC SWING CHECK VALVE (GB)

### H76 型外置对夹双瓣旋启式止回阀(国标)

公称压力 Nominal pressure	公称尺寸 Nominal size	尺寸 Dimensions(mm)				重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)				
		L	D	D2	D3		D1	螺栓数量 Bolt Quantity	螺栓直径d Bolt diameter d	螺栓长度L1 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	136	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	337	355	230	560	16	M45	535	550
	400	305	570	387	400	366	620	16	M45	585	600
	50	70	142	51	58	8	165	8	M22	205	220
	65	83	162	65	73	11	190	8	M27	245	260
PN160	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
JB/T74~90	300	292	520	305	312	230	570	16	M48	610	640
	50	70	120	51	58	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	M24	245	260
	100	102	181	102	108	17	210	8	M27	280	295
	125	110	218	127	136	28	250	8	M30	305	320
GB/T9113、 HG20592~20614	150	159	258	152	162	36	290	12	M30	365	385
	200	206	325	203	212	78	360	12	M33	425	445
	250	241	389	254	266	130	430	12	M39	495	515
	300	292	459	305	312	210	500	16	M39	570	600
	50	70	136	51	58	8	160	8	M22	215	230
	65	83	174	65	73	16	203	8	M27	255	270
PN200	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
Hg20592	50	70	124	51	58	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
PN250	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

## WAFER RETAINERLESS TYPE DOUBLE DISC SWING CHECK VALVE (API)

H76 型内置双瓣对夹旋启式止回阀(美标)



压力级 Pressure level	口径 Size		尺寸 Dimensions(mm)			重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)					
	DN	NPS	L	D	D2	D3	Bolt Quantity	Bolt diameter d	Bolt length L1	RF	RTJ	
Class150 PN20	50	2	60	103	51	61	2.5	120.5	4	5/8	M16	140
	65	2 <sup>1</sup> / <sub>2</sub>	67	122	65	75	3	139.5	4	5/8	M16	150
	80	3	73	135	80	92	4	152.5	4	5/8	M16	160
	100	4	73	173	102	114	6	190.5	8	5/8	M16	170
	125	5	86	195	127	140	8	216.0	8	3/4	M20	190
	150	6	98	220	152	166	13	241.5	8	3/4	M20	205
	200	8	127	277	203	210	25	298.5	8	3/4	M20	240
	250	10	146	337	254	266	39	362.0	12	7/8	M24	270
	300	12	181	407	305	310	54	432.0	12	7/8	M24	310
	350	14	184	448	350	355	80	476.0	12	1	M27	325
ASME B16.47B、 API 605、 GB 13402	400	16	191	512	400	405	117	540.0	16	1	M27	340
	450	18	203	547	450	455	138	578.0	16	1 <sup>1</sup> /8	M30	365
	500	20	219	604	500	505	163	635.0	20	1 <sup>1</sup> /8	M30	385
	600	24	222	715	600	605	331	749.5	20	1 <sup>1</sup> /4	M33	405
	650	26	222	722	633	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	880	893	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	1040	1045	960	1171.5	48	1	M27	625
	1100	44	432	1193	1070	1070	1150	1222	52	1	M27	630
	1200	48	524	1302	1166	1200	1400	1335.0	44	1 <sup>1</sup> /8	M30	740
	1350	54	591	1460	1312	1315	2245	1492	56	1 <sup>1</sup> /8	M30	820
	1400	56	591	1512	1360	1370	2830	1543	60	1 <sup>1</sup> /8	M30	820
	1500	60	660	1628	1458	1470	3200	1662	52	1 <sup>1</sup> /4	M33	900

## WAFER RETAINERLESS TYPE DOUBLE DISC SWING CHECK VALVE (API)

### H76 型内置双瓣对夹旋启式止回阀(美标)

压力级 Pressure level	口径 Size		尺寸 Dimensions(mm)			重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)						
	DN	NPS	L	D	D2	D3	Bolt Quantity	Bolt diameter d in mm	Bolt length L1 RF RTJ				
Class150 PN20 ASME B16.47A MSS SP-44	1650	66	787	1881	1630	1663	5345	1930.5	52	1 <sup>1</sup> / <sub>4</sub>	M45×3	1075	-
	1800	72	851	2046	1780	1818	6100	2095.5	60	1 <sup>1</sup> / <sub>4</sub>	M45×3	1145	-
	1950	78	927	2204	1930	1973	8185	2260.5	64	2	M52×3	1250	-
	2100	84	1041	2369	2080	2115	10220	2425.0	64	2	M52×3	1365	-
	650	26	222	770	633	650	380	806.5	24	1 <sup>1</sup> / <sub>4</sub>	M33	450	-
	700	28	305	827	700	700	400	863.5	28	1 <sup>1</sup> / <sub>4</sub>	M33	535	-
	750	30	305	878	746	750	440	914.5	28	1 <sup>1</sup> / <sub>4</sub>	M33	545	-
	800	32	305	935	796	800	580	978	28	1 <sup>1</sup> / <sub>2</sub>	M39×3	570	-
	900	36	368	1045	880	893	660	1086	32	1 <sup>1</sup> / <sub>2</sub>	M39×3	650	-
	1000	40	432	1158	976	985	890	1200	36	1 <sup>1</sup> / <sub>2</sub>	M39×3	710	-
	1050	42	432	1213	1040	1045	980	1257.5	36	1 <sup>1</sup> / <sub>2</sub>	M39×3	730	-
	1100	44	432	1274	1070	1070	1170	1314.5	40	1 <sup>1</sup> / <sub>2</sub>	M39×3	730	-
	1200	48	524	1380	1166	1200	1450	1422.5	44	1 <sup>1</sup> / <sub>2</sub>	M39×3	840	-
	1350	54	591	1545	1312	1315	2300	1594	44	1 <sup>3</sup> / <sub>4</sub>	M45×3	950	-
	1400	56	591	1602	1360	1370	2850	1651	48	1 <sup>3</sup> / <sub>4</sub>	M45×3	955	-
	1500	60	660	1710	1458	1470	3225	1759	52	1 <sup>3</sup> / <sub>4</sub>	M45×3	1040	-
Class 300 PN50	50	2	60	110	51	61	3	127.0	8	5/ <sub>8</sub>	M16	155	175
	65	2 <sup>1</sup> / <sub>2</sub>	67	128	65	75	4	149.0	8	3/ <sub>4</sub>	M20	175	195
	80	3	73	147	80	92	6	168.5	8	3/ <sub>4</sub>	M20	190	210
	100	4	73	179	102	114	8	200.0	8	3/ <sub>4</sub>	M20	195	215
	125	5	86	214	127	140	15	235.0	8	3/ <sub>4</sub>	M20	215	235
	150	6	98	249	152	166	18	270.0	12	3/ <sub>4</sub>	M20	230	250
	200	8	127	305	203	210	31	330.0	12	7/ <sub>8</sub>	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 <sup>1</sup> / <sub>8</sub>	M30	365	385
	350	14	222	483	350	355	117	514.5	20	1 <sup>1</sup> / <sub>8</sub>	M30	410	430
	400	16	232	537	400	405	190	571.5	20	1 <sup>1</sup> / <sub>4</sub>	M33	435	455
	450	18	264	594	450	455	200	628.5	24	1 <sup>1</sup> / <sub>4</sub>	M33	475	495
	500	20	292	652	500	505	265	686.0	24	1 <sup>1</sup> / <sub>4</sub>	M33	510	535
	600	24	318	772	600	608	410	813.0	24	1 <sup>1</sup> / <sub>2</sub>	M39×3	560	585
Class 300 PN50 ASME B16.47B、 API 605、 GB/T 13402	650	26	356	767	633	640	565	803	32	1 <sup>1</sup> / <sub>4</sub>	M33	625	-
	700	28	368	821	685	685	585	857	36	1 <sup>1</sup> / <sub>4</sub>	M33	635	-
	750	30	368	882	735	740	660	921.0	36	1 <sup>3</sup> / <sub>8</sub>	M36×3	650	-
	800	32	368	936	784	784	970	978	32	1 <sup>1</sup> / <sub>2</sub>	M39×3	675	-
	900	36	483	1044	873	880	1020	1089.0	32	1 <sup>5</sup> / <sub>8</sub>	M42×3	800	-
	1000	40	546	1146	976	985	1420	1191	40	1 <sup>5</sup> / <sub>8</sub>	M42×3	885	-
	1050	42	568	1196	1020	1045	1540	1244.5	36	1 <sup>3</sup> / <sub>4</sub>	M45×3	920	-
	1200	48	629	1365	1166	1190	2260	1416.0	40	1 <sup>7</sup> / <sub>8</sub>	M48×3	1010	-
	1350	54	718	1526	1312	1315	3102	1578	48	1 <sup>7</sup> / <sub>8</sub>	M48×3	1140	-
	1500	60	838	1704	1458	1470	4315	1764	40	2 <sup>1</sup> / <sub>4</sub>	M56×3	1280	-

## WAFER RETAINERLESS TYPE DOUBLE DISC SWING CHECK VALVE (API)

### H76 型内置双瓣对夹旋启式止回阀(美标)

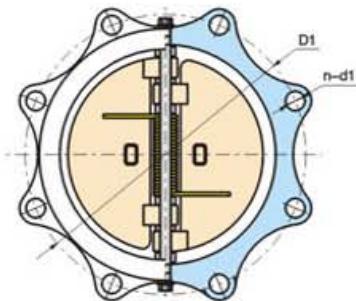
压力级 Pressure level	口径 Size		尺寸 Dimensions(mm)				重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)					
	DN	NPS	L	D	D2	D3		D1	螺栓数量 Bolt Quantity	螺栓直径d Bolt diameter d in	螺栓直径d Bolt diameter d mm	螺栓长度L1 Bolt length L1 RF	螺栓长度L1 Bolt length L1 RTJ
Class 300 PN50  ASME B16.47A、 MSS SP-44	650	26	356	831	633	640	580	876	28	1 <sup>5</sup> / <sub>8</sub>	M42×3	625	-
	700	28	368	895	685	685	600	940	28	1 <sup>5</sup> / <sub>8</sub>	M42×3	650	-
	750	30	368	949	735	740	680	997	28	1 <sup>3</sup> / <sub>4</sub>	M45×3	665	-
	800	32	368	1003	784	784	990	1054	28	1 <sup>7</sup> / <sub>8</sub>	M48×3	685	-
	900	36	483	1113	873	880	1050	1168.5	32	2	M52×3	820	-
	1000	40	546	1110	976	985	1400	1156	32	1 <sup>5</sup> / <sub>8</sub>	M42×3	885	-
	1050	42	568	1161	1020	1045	1520	1206.5	32	1 <sup>5</sup> / <sub>8</sub>	M42×3	915	-
	1200	48	629	1320	1166	1190	2250	1371.5	32	1 <sup>7</sup> / <sub>8</sub>	M48×3	1015	-
	1350	54	718	1489	1312	1315	3080	1549.5	28	2 <sup>1</sup> / <sub>4</sub>	M56×3	1160	-
Class 600 PN110  ASME B16.47B、 API 605、 GB/T 13402	1500	60	838	1642	1458	1470	4300	1702	32	2 <sup>1</sup> / <sub>4</sub>	M56×3	1305	-
	50	2	60	110	51	61	4	127.0	8	5/ <sub>8</sub>	M16	175	180
	65	2 <sup>1</sup> / <sub>2</sub>	67	128	65	75	5	149.0	8	3/ <sub>4</sub>	M20	195	200
	80	3	73	147	80	92	8	168.5	8	3/ <sub>4</sub>	M20	210	215
	100	4	79	191	102	108	11	216.0	8	7/ <sub>8</sub>	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 <sup>1</sup> / <sub>8</sub>	M30	370	375
	250	10	213	398	250	266	95	432.0	16	1 <sup>1</sup> / <sub>4</sub>	M33	440	445
	300	12	229	455	305	312	140	489.0	20	1 <sup>1</sup> / <sub>4</sub>	M33	460	465
	350	14	273	490	337	355	223	527.0	20	1 <sup>3</sup> / <sub>8</sub>	M36×3	520	525
	400	16	305	562	387	400	360	603.0	20	1 <sup>1</sup> / <sub>2</sub>	M39×3	575	580
	450	18	362	610	438	450	395	654.0	20	1 <sup>5</sup> / <sub>8</sub>	M42×3	650	655
	500	20	368	680	489	500	518	724.0	24	1 <sup>5</sup> / <sub>8</sub>	M42×3	670	680
	600	24	438	786	591	600	836	838.0	24	1 <sup>7</sup> / <sub>8</sub>	M48×3	780	795
Class 600 PN110  ASME B16.47B、 API 605、 GB/T 13402	650	26	457	761	633	640	950	806.5	28	1 <sup>5</sup> / <sub>8</sub>	M42×3	790	805
	700	28	483	815	684	690	1215	863.5	28	1 <sup>3</sup> / <sub>4</sub>	M45×3	830	845
	750	30	505	875	735	740	1378	927	28	1 <sup>7</sup> / <sub>8</sub>	M48×3	875	890
	800	32	533	928	779	784	1643	984	28	2	M52×3	920	940
	900	36	635	1045	874	880	2120	1105	28	2 <sup>1</sup> / <sub>4</sub>	M56×3	1065	1085
Class 600 PN110  ASME B16.47A、 MSS SP-44	650	26	457	863	633	640	980	914.5	28	1 <sup>7</sup> / <sub>8</sub>	M48×3	795	810
	700	28	483	910	684	690	1250	965	28	2	M52×3	835	850
	750	30	505	967	735	740	1420	1022.5	28	2	M52×3	860	905
	800	32	533	1020	779	784	1700	1079.5	28	2 <sup>1</sup> / <sub>4</sub>	M56×3	905	925
	900	36	635	1126	874	880	2200	1194	28	2 <sup>1</sup> / <sub>2</sub>	M64×3	1035	1055
	1000	40	660	1153	976	985	2650	1213	32	2 <sup>1</sup> / <sub>4</sub>	M56×3	1115	-
	1050	42	702	1215	1020	1030	3135	1283	28	2 <sup>1</sup> / <sub>2</sub>	M64×3	1190	-
	1200	48	787	1386	1166	1170	3755	1460.5	32	2 <sup>3</sup> / <sub>4</sub>	M70×3	1330	-
Class 900 PN150	50	2	70	140	51	58	8	165.0	8	7/ <sub>8</sub>	M24	225	230
	65	2 <sup>1</sup> / <sub>2</sub>	83	162	65	73	11	190.5	8	1	M27	250	255
	80	3	83	165	80	90	14	190.5	8	7/ <sub>8</sub>	M24	240	245
	100	4	102	204	102	108	20	235.0	8	1 <sup>1</sup> / <sub>8</sub>	M30	285	290



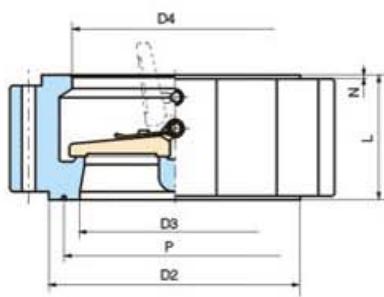
## CASTING BODY LUG TYPE DOUBLE-DISC SWING CHECK VALVE (API)

(铸件壳体HTL76型)凸耳对夹双瓣旋启式止回阀(美标)

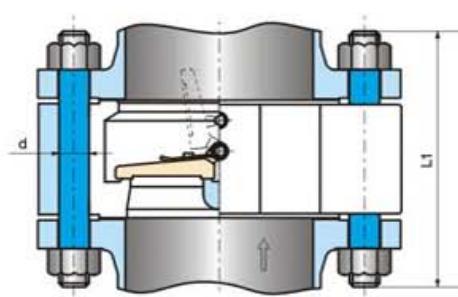
实心凸耳 Solid lug



实心凸耳 Solid lug



空心凸耳 Hollow lug



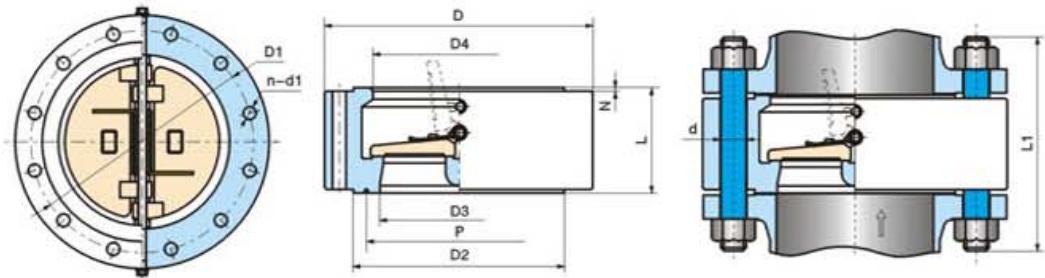
压力级 Pressure level	口径 Size		尺寸 Dimensions(mm)												重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)			
	NPS	DN	L	D1	D2		D3	D4	P	螺孔 数量 Screw Quantity	螺孔直径d1 Screw diameter d1		N		螺栓 数量 Bolt Quantity	螺栓直径d Bolt diameter d		螺栓长度L1 Bolt length L1	
					R F	R J					in	mm				in	mm	R F	R J
Class 150 PN2.0MPa  ASME B16.47B	2	50	60	120.5	92	102	51	58	82.55	4	3/4	19	2	4	4	5/8	M16	140	155
	2 1/2	65	67	139.5	105	121	65	73	101.6	4	3/4	19	2	5.5	4	5/8	M16	150	165
	3	80	73	152.5	127	133	80	88	114.3	4	3/4	19	2	7	4	5/8	M16	160	175
	4	100	73	190.5	157	171	102	108	149.225	8	3/4	19	2	11	8	5/8	M16	170	185
	5	125	86	216	186	194	127	132	171.45	8	7/8	22.5	2	15	8	3/4	M20	190	205
	6	150	98	241.5	216	219	152	160	193.675	8	7/8	22.5	2	19	8	3/4	M20	205	220
	8	200	127	298.5	270	273	203	210	247.65	8	7/8	22.5	2	36	8	3/4	M20	240	255
	10	250	146	362	324	330	254	266	304.801	12	1	25.5	2	61	12	7/8	M24	270	285
	12	300	181	432	381	406	305	310	381.001	12	1	25.5	2	119	12	7/8	M24	310	325
	14	350	184	476	413	425	350	355	396.876	12	1 1/8	28.5	2	131	12	1	M27	325	340
	16	400	191	540	470	483	400	405	454.026	16	1 1/8	28.5	2	180	16	1	M27	340	355
	18	450	203	578	533	546	450	455	517.526	16	1 1/4	32	2	203	16	1 1/8	M30	365	380
	20	500	219	635	584	597	500	505	558.801	20	1 1/4	32	2	275	20	1 1/8	M30	385	400
	24	600	222	749.5	692	711	600	605	673.101	20	1 3/8	35	2	314	20	1 1/4	M33	405	420
	28	700	305	795.5	762	-	700	700	-	40	7/8	22.5	2	910	40	3/4	M20	455	-
	30	750	305	846	813	-	746	750	-	44	7/8	22.5	2	1025	44	3/4	M20	455	-
	32	800	305	900	864	-	796	800	-	48	7/8	22.5	2	1344	48	3/4	M20	460	-
	36	900	368	1009.5	972	-	880	893	-	44	1	25.5	2	1536	44	7/8	M24	540	-
	42	1050	432	1171.5	1130	-	1040	1045	-	48	1 1/8	28.5	2	2310	48	1	M27	625	-
	48	1200	524	1335	1289	-	1166	1200	-	44	1 1/4	32	2	3364	44	1 1/8	M30	740	-





## LUG TYPE DOUBLE DISC SWING CHECK VALVE (FORGING BODY) (API)

(锻件壳体HTL76型) 凸耳式双瓣旋启式止回阀(美标)



压力级 Pressure level	口径 Size		尺寸 Dimensions(mm)												重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)				
	NPS	DN	L	D	D1	D2		D3	D4	P	螺栓数量 Screw Quantity	螺孔直径d1 Screw diameter d1		N	螺栓直径d Bolt diameter d	螺栓长度L1 Bolt length L1				
						R F	RJ					in	mm							
2	50	60	150	120.5	92	102	51	58	82.55	4	3/4	19	2	7	4	5/8	M16	140	155	
2½	65	67	180	139.5	105	121	65	73	101.6	4	3/4	19	2	9	4	5/8	M16	150	165	
3	80	73	190	152.5	127	133	80	88	114.3	4	3/4	19	2	12	4	5/8	M16	160	175	
4	100	73	230	190.5	157	171	102	108	149.225	8	3/4	19	2	19	8	5/8	M16	170	185	
5	125	86	255	216	186	194	127	132	171.45	8	7/8	22.5	2	25	8	3/4	M20	190	205	
6	150	98	280	241.5	216	219	152	160	193.675	8	7/8	22.5	2	32	8	3/4	M20	205	220	
8	200	127	345	298.5	270	273	203	210	247.65	8	7/8	22.5	2	63	8	3/4	M20	240	255	
10	250	146	405	362	324	330	254	266	304.801	12	1	25.5	2	93	12	7/8	M24	270	285	
12	300	181	485	432	381	406	305	310	381.001	12	1	25.5	2	170	12	7/8	M24	310	325	
Class 150 PN2.0MPa	14	350	184	535	476	413	425	350	355	396.876	12	1 1/8	28.5	2	199	12	1	M27	325	340
ASME B16.47B	16	400	191	595	540	470	483	400	405	454.026	16	1 1/8	28.5	2	246	16	1	M27	340	355
	18	450	203	635	578	533	546	450	455	517.526	16	1 1/4	32	2	290	16	1 1/8	M30	365	380
	20	500	219	700	635	584	597	500	505	558.801	20	1 1/4	32	2	348	20	1 1/8	M30	385	400
	24	600	222	815	749.5	692	711	600	605	673.101	20	1 3/8	35	2	396	20	1 1/4	M33	405	420
	28	700	305	835	795.5	762	-	700	700	-	40	7/8	22.5	2	1270	40	3/4	M20	455	-
	30	750	305	885	846	813	-	746	750	-	44	7/8	22.5	2	1987	44	3/4	M20	455	-
	32	800	305	940	900	864	-	796	800	-	48	7/8	22.5	2	2925	48	3/4	M20	460	-
	36	900	368	1055	1009.5	972	-	880	893	-	44	1	25.5	2	1430	44	7/8	M24	540	-
	42	1050	432	1225	1171.5	1130	-	1040	1045	-	48	1 1/8	28.5	2	2377	48	1	M27	625	-
	48	1200	524	1390	1335	1289	-	1166	1200	-	44	1 1/4	32	2	4174	44	1 1/8	M30	740	-

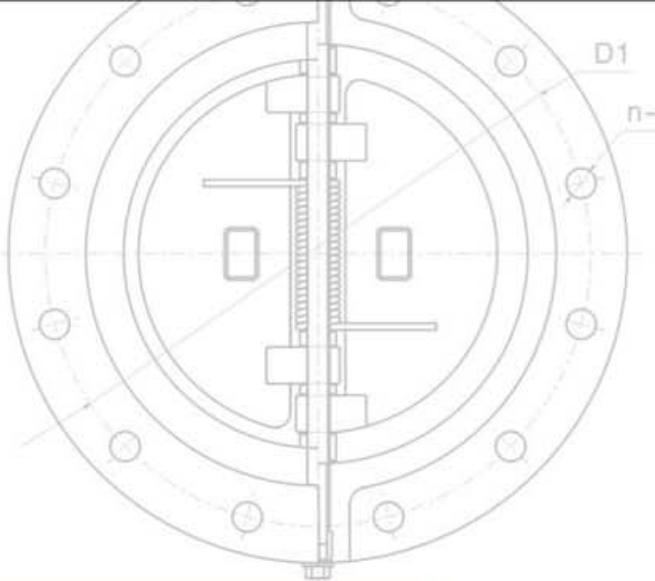




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**H46型** 美标系列 / 国标系列  
API Series/GB Series

法兰连接H46型双瓣旋启式止回阀  
H46-Double Flanged Type Double Disc Swing Check

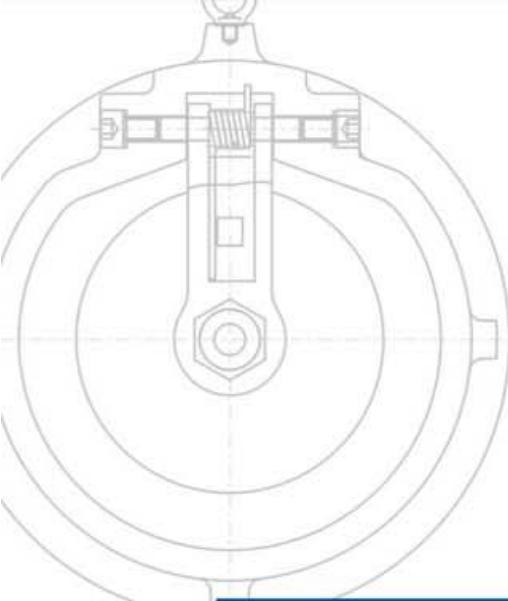












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**H74/77型** 美标系列 / 国标系列  
API Series/GB Series

**H74型对夹单瓣旋启式止回阀**

H74-Wafer Type Single Disc Swing Check Valve (casting Body)

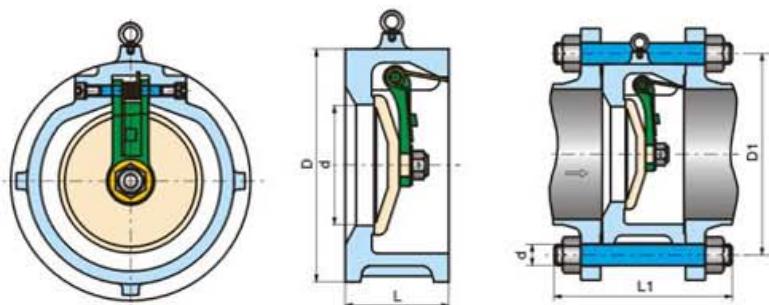
**H77型斜盘对夹单瓣旋启式止回阀**

H77-Wafer Type Tilting Disc Check Valve

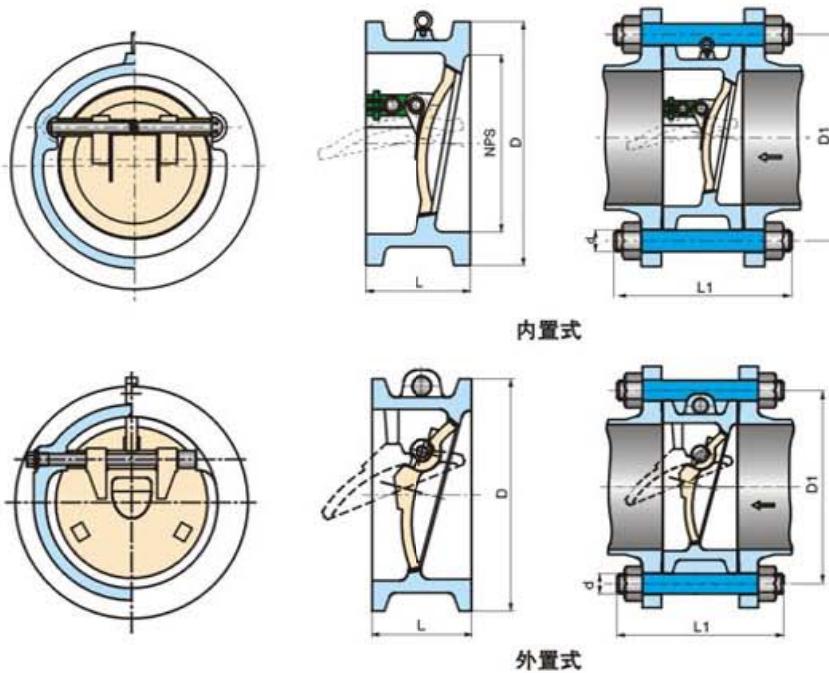


## WAFER TYPE SINGLE DISC SWING CHECK VALVE LONG SERIES (API)

H74型对夹单瓣旋启式止回阀长系列(美标)



H77型斜盘对夹单瓣旋启式止回阀(美标) WAFER TYPE TILTING DISC CHECK VALVE (API)



压力级 Pressure level	口径 Size		尺寸 Dimensions(mm)		重量 (Kg)	d	配管法兰(供参考) Pipe flange (for reference)					
	NPS	DN	L	D			螺栓孔中心圆直径D1 Bolt hole center Diameter D1	螺孔数量 Screw Quantity	螺孔直径d1 Screw diameter d1		螺栓长度 L1 Bolt length L1	
									in	mm	R F	R J
Class150 PN2.0MPa ASME B16.5	2	50	60	103	3	30	120.5	4	5/8	M16	140	155
	2½	65	67	122	4	40	139.5	4	5/8	M16	150	165
	3	80	73	135	5	52	152.5	4	5/8	M16	160	175
	4	100	73	173	8	76	190.5	8	5/8	M16	170	185
	5	125	86	195	10	93	216.0	8	3/4	M20	190	205
	6	150	98	220	16	114	241.5	8	3/4	M20	205	220
	8	200	127	277	30	157	298.5	8	3/4	M20	240	255
	10	250	146	337	47	195	362.0	12	7/8	M24	270	285
	12	300	181	407	65	230	432.0	12	7/8	M24	310	325
	14	350	184	448	102	270	476.0	12	1	M27	325	340
	16	400	191	512	137	310	540.0	16	1	M27	340	355
	18	450	203	547	166	360	578.0	16	1 1/8	M30	365	380
	20	500	219	604	193	406	635.0	20	1 1/8	M30	385	400
	24	600	222	715	397	490	749.5	20	1 1/4	M33	405	420





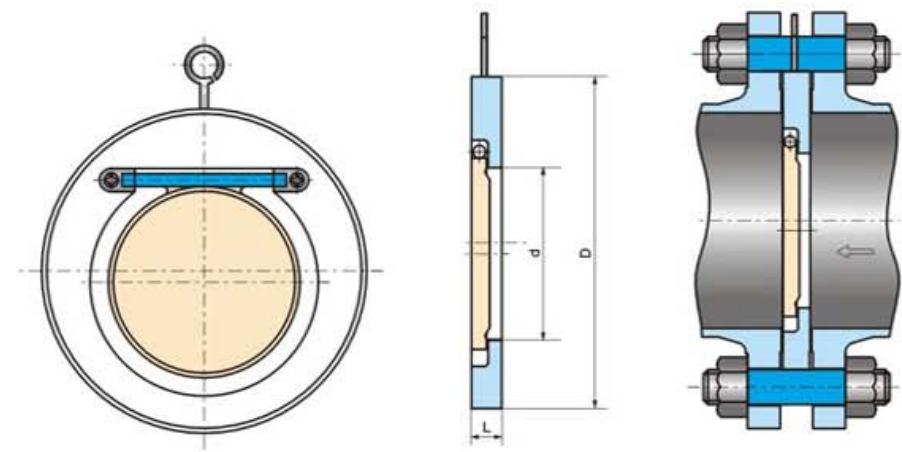
## WAFER TYPE SINGLE DISC SWING CHECK VALVE (GB)

H74/77型对夹单瓣旋启式止回阀(国标)

公称压力 Nominal pressure Mpa	公称通径 Normal diameter mm	尺寸 Dimensions(mm)		d	重量 (Kg)	配管法兰(供参考) Pipe flange (for reference)				
		L	D			螺栓孔中心圆直径D1 Bolt hole center Diameter D1	螺孔数量 Screw Quantity	螺孔直径d Screw diameter d	螺栓长度 L1 Bolt length L1	RF、MFM
PN4.0MPa GB/T 9113	50	60	108	30	4	125	4	M16	150	-
	65	67	128	40	5	145	8	M16	160	-
	80	73	142	52	7	160	8	M16	170	-
	100	73	168	76	10	190	8	M20	180	-
	125	86	194	93	16	220	8	M24	205	-
	150	98	224	114	19	250	8	M24	220	-
	200	127	291	157	34	320	12	M27	270	-
	250	146	353	195	59	385	12	M30	300	-
	300	181	418	230	91	450	16	M30	345	-
	350	222	475	270	137	510	16	M33	400	-
	400	232	547	310	228	585	16	M36	425	-
	450	264	572	360	240	610	20	M36	470	-
	500	292	626	406	312	670	20	M39	505	-
	600	318	745	490	485	795	20	M45	575	-
PN6.3MPa GB/T 9113	50	60	114	30	5	135	4	M20	170	185
	65	67	138	40	6	160	8	M20	180	195
	80	73	148	52	8	180	8	M20	190	205
	100	79	174	76	12	200	8	M24	210	225
	125	105	211	93	19	240	8	M27	250	265
	150	136	248	114	24	280	8	M30	290	305
	200	165	310	157	46	345	12	M33	335	350
	250	213	362	195	74	400	12	M33	395	410
	300	229	422	230	120	460	16	M33	420	435
	350	273	487	270	192	525	16	M36	480	495
	400	305	541	310	312	585	16	M39	525	540
PN10.0MPa GB/T 9113	50	60	120	30	6	145	4	M24	185	200
	65	67	144	40	8	170	8	M24	195	210
	80	73	154	52	12	180	8	M24	205	220
	100	79	181	76	14	210	8	M27	225	240
	125	105	218	93	23	250	8	M30	265	280
	150	136	258	114	30	290	12	M30	305	320
	200	165	324	157	67	360	12	M33	355	370
	250	213	392	195	113	430	12	M36	425	440
	300	229	456	230	170	500	16	M39	465	480
	350	273	510	270	276	560	16	M45	535	550
	400	305	570	310	439	620	16	M45	585	600

## SANDWICH TYPE SINGLE DISC SWING CHECK VALVE (FORGING BODY) SHORT SERIES

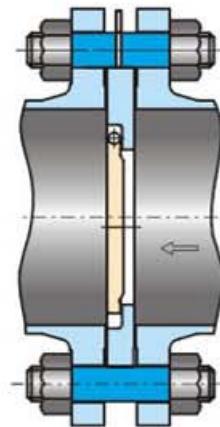
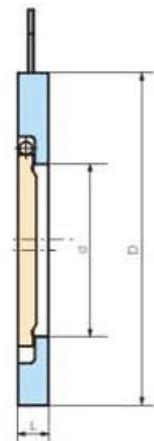
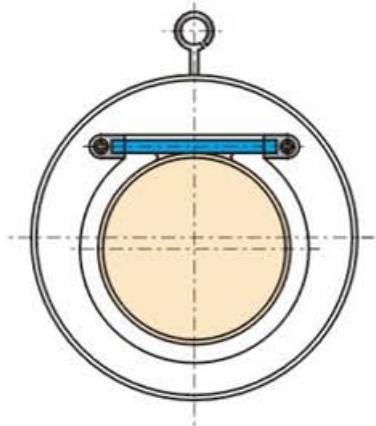
H74型对夹单瓣旋启式止回阀短系列



口径 Size	d	L	D			
			PN10	PN16	JIS10K	CLASS 150LB
50	30	19	109	109	103	104
65	40	19	129	129	123	123
80	52	19	143	143	133	136
100	71	19	163	163	158	174
125	93	19	193	193	189	196
150	114	19	219	219	219	221
200	157	29	274	274	269	278
250	195	29	329	329	332	338
300	230	38	379	385	377	408
350	270	44	439	445	422	449
400	310	51	490	497	485	513
450	360	60	539	557	540	548
500	406	64	595	619	595	605
600	490	70	697	733	699	716

SANDWICH TYPE SINGLE DISC SWING CHECK VALVE (FORGING BODY) SHORT SERIES

H74型对夹单瓣旋启式止回阀短系列



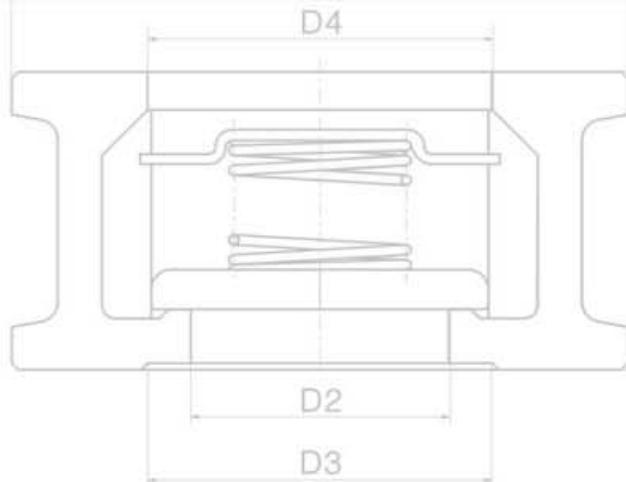
口径 Size	d	L	D
			CLASS 300LB
50	30	19	111
65	40	19	129
80	52	19	148
100	71	19	180
125	93	19	215
150	114	22	250
200	157	29	306
250	195	38	360
300	230	51	421
350	270	51	484
400	310	51	538
450	360	76	595
500	406	83	653

口径 Size	d	L	D
			CLASS 600LB
50	30	19	111
65	40	19	129
80	52	19	148
100	71	22	192
125	93	25	240
150	114	29	265
200	157	38	319
250	195	57	399
300	230	60	456
350	270	67	491
400	310	73	563
450	360	83	611
500	406	92	681

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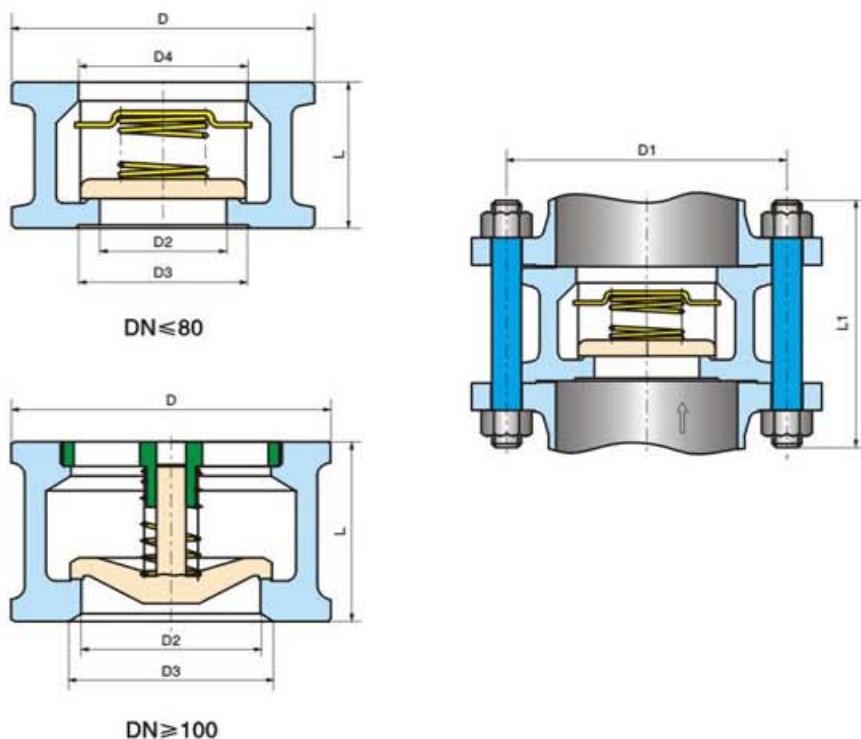
**H71型** 美标系列 / 国标系列  
API Series/GB Series

**H71型对夹升降式止回阀**  
**H71-Wafer Type Single Disc Lift Check Valve**



## WAFER TYPE LIFT CHECK VALVE (API)

### H71型对夹升降式止回阀(美标)



铸造长系列 Casting long series

压力级 Pressure level	口径 Size		尺寸 Dimensions(mm)					重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)						
	NPS	DN	L	D	D2	D3	D4		螺栓孔中心圆直径D1 Bolt hole center Diameter D1	螺栓数量 Bolt Quantity	螺孔直径 d Screw diameter d	螺栓长度 L1 Bolt length L1	in	mm	RF
Class150 PN2.0MPa	1/2	15	25	46	15	25	25	0.28	60.5	4	1/2	M14	90	—	
	3/4	20	31.5	56	19	30	30	0.42	70	4	1/2	M14	100	—	
	1	25	35.5	65	24	36	36	0.56	79.5	4	1/2	M14	105	120	
	1 <sup>1</sup> / <sub>4</sub>	32	40	74	31	43	43	0.75	89	4	1/2	M14	115	130	
	1 <sup>1</sup> / <sub>2</sub>	40	45	84	39	52	52	1.3	98.5	4	1/2	M14	120	135	
	2	50	56	103	48	62	62	2.1	120.5	4	5/8	M16	140	155	
	2 <sup>1</sup> / <sub>2</sub>	65	63	122	62	75	75	2.8	139.5	4	5/8	M16	155	170	
	3	80	71	135	76	90	90	3.6	152.5	4	5/8	M16	165	180	
	4	100	80	173	95	112	112	4.8	190.5	8	5/8	M16	175	190	
	5	125	110	195	110	125	132	12	216.0	8	3/4	M20	210	225	
	6	150	125	220	127	150	158	17	241.5	8	3/4	M20	230	245	
	8	200	160	277	165	200	208	29	298.5	8	3/4	M20	270	285	





## WAFER TYPE LIFT CHECK VALVE (GB)

### H71型对夹升降式止回阀(国标)

公称压力 Nominal pressure Mpa	公称通径 Nominal diameter mm	尺寸 Dimensions(mm)					重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)			
		L	D	D2	D3	D4		螺栓孔中心圆直径D1 Bolt hole center Diameter D1	螺栓数量 Bolt Quantity	螺栓直径d Bolt diameter d	螺栓长度L1 Bolt length L1
PN6.3MPa	15	25	62	15	25	25	0.5	75	4	M12	100
	20	31.5	73	19	30	30	0.7	90	4	M16	115
	25	35.5	83	24	36	36	1.0	100	4	M16	130
	32	40	89	31	43	43	1.3	110	4	M20	140
	40	45	104	39	52	52	2.0	125	4	M20	150
	50	56	114	48	62	62	3.2	135	4	M20	160
	65	63	138	62	75	75	4.5	160	8	M20	170
	80	71	148	76	90	90	5	170	8	M20	180
	100	80	174	95	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	15	25	25	0.6	75	4	M12	100
	20	31.5	73	19	30	30	1.0	90	4	M16	115
	25	35.5	83	24	36	36	1.3	100	4	M16	130
	15	25	62	15	25	25	0.6	75	4	M12	100
	20	31.5	73	19	30	30	1.0	90	4	M16	115
	25	35.5	83	24	36	36	1.3	100	4	M16	130
	32	40	89	31	43	43	1.6	110	4	M20	140
	40	45	104	39	52	52	2.5	125	4	M20	150
	50	56	120	48	62	62	3.8	145	4	M24	175
	65	63	144	62	75	75	6	170	8	M24	185
	80	71	154	76	90	90	7	180	8	M24	195
	100	80	181	95	112	112	10	210	8	M27	220
	125	110	218	110	125	132	18	250	8	M30	265
	150	125	258	127	150	158	30	290	12	M30	285
	200	160	324	165	200	208	56	360	12	M33	345

## WAFER TYPE LIFT CHECK VALVE (GB)

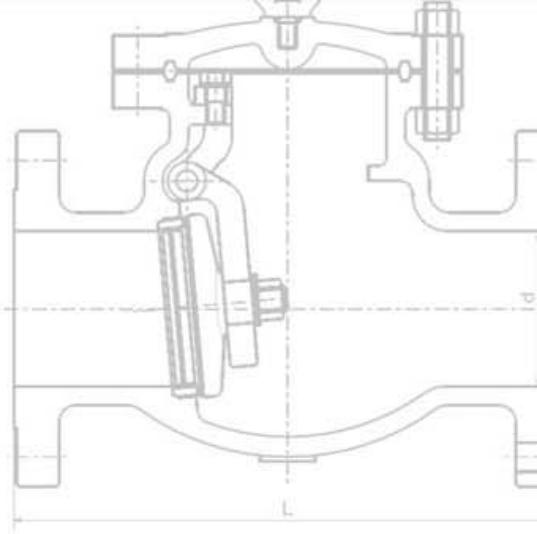
H71型对夹升降式止回阀(国标)

公称压力 Nominal pressure Mpa	公称通径 Nominal diameter mm	尺寸 Dimensions(mm)					重量 Weight (Kg)	配管法兰(供参考) Pipe flange (for reference)			
		L	D	D2	D3	D4		螺栓孔中心圆直径D1 Bolt hole center Diameter D1	螺栓数量 Bolt Quantity	螺栓长度L1 Bolt length L1	螺栓长度L1 Bolt length L1
PN16.0MPa (JB/T74-90)	15	25	58	15	25	25	0.6	75	4	M16	70
	20	31.5	69	19	30	30	0.9	90	4	M20	85
	25	35.5	79	24	36	36	1.3	100	4	M20	90
	32	40	92	31	43	43	1.7	115	4	M22	100
	40	45	100	39	52	52	2.2	125	4	M24	110
	50	56	142	48	62	62	5.6	165	8	M22	115
	65	63	162	62	75	75	7.5	190	8	M27	130
	80	71	176	76	90	90	9	205	8	M27	140
	100	80	208	95	112	112	14	240	8	M30	155
	125	110	247	110	125	132	27	285	8	M36	195
	150	125	280	127	150	158	38	318	12	M36	210
	200	160	356	165	200	208	76	400	12	M42	260
PN16.0MPa (GB/T9112 ~9124) (HG 20592 ~20635)	15	25	62	15	25	25	0.6	75	4	M12	115
	20	31.5	73	19	30	30	1.0	90	4	M16	135
	25	35.5	83	24	36	36	1.3	100	4	M16	145
	32	40	89	31	43	43	1.6	110	4	M20	160
	40	45	104	39	52	52	2.5	125	4	M20	170
	50	56	120	48	62	62	3.8	145	4	M24	195
	65	63	144	62	75	75	6	170	8	M24	210
	80	71	154	76	90	90	7	180	8	M24	225
	100	80	181	95	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

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## H41/H44/H47型 美标系列 API Series

**H41轴流式止回阀**

H41 Axial Flow Check Valve

**H44旋启式止回阀**

H44 Swing Check Valve

**H47斜盘式止回阀**

H47 Tilting Disc Check Valve



## TILTING DISC CHECK VALVE

### 斜盘式止回阀

#### 用途 Use

斜盘式止回阀采用双偏心阀瓣，关闭时阀座与密封面逐步接触，达到无撞击、无噪声工作。微弹性金属阀座，密封性能好。

Tilting disc check valve adopts the use of bi-eccentric disc which enables the disc touch the seat gradually without noise and slam when closing. Resilient metal seat it used to ensure excellent sealing performance.

#### 结构特点 Structure Features

- |                  |  |
|------------------|--|
| 1.蝶式阀瓣设计；        | 1. Butterfly type disc design.           |
| 2.开关迅速、灵敏，使用寿命长； | 2. Quick close and open, long life span. |

#### 技术规范 Technical Specifications

设计依据 Design Basis		BS 1868
设计标准 Design Standard		BS 1868
结构长度 Face-to-Face		ASME B16.10
连接端* Connection End	法兰连接 Flanged	ASME B16.5
	对焊连接 Butt-Welding	ASME B16.25
试验和检验 Test and Check		API 598

\* 阀门连接端的连接法兰标准和对焊端尺寸可按用户要求设计制造。

The valve connection end standard designed and manufactured according to user requirements.

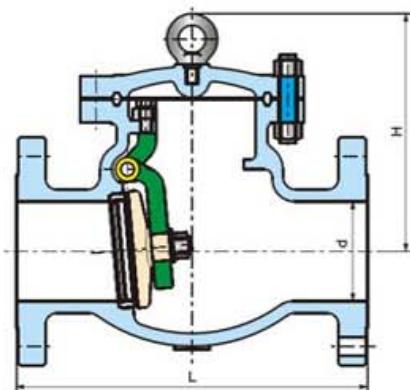
#### 主要零件与材质 Main Parts and Materials

#### 常规型 Conventional Type

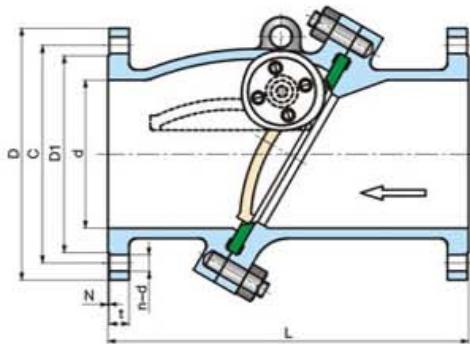
零件名称 Part Name	碳钢 Carbon Steel		低温碳钢 Low Temp Steel		不锈钢 Stainless Steel	
	GB	ASTM	GB	ASTM	GB	ASTM
左阀体 Body	WCB	A216-WCB	LCB LCC	A352-LCB A352-LCC	CF8 CF8M	A351-CF8 A351-CF8M
阀瓣 Disc	WCB	A216-WCB	LCB LCC	A352-LCB A352-LCC	CF8 CF8M	A351-CF8 A351-CF8M
右阀体 Body	WCB	A216-WCB	LCB LCC	A352-LCB A352-LCC	CF8 CF8M	A351-CF8 A351-CF8M
销轴 Hinge pin	20Cr13	A276-420	20Cr13	A276-420	12Cr18Ni9 00Cr17Ni12Mo2	A276-304 A276-316
中法兰垫片 Bonnet Gasket	F.G/12Cr18Ni9	F.G/304	F.G/12Cr18Ni9	F.G/304	F.G/12Cr18Ni9	F.G/304
中法兰螺栓 Bonnet Stud	35CrMo	A193-B7	12Cr18Ni9	A193-B8	12Cr18Ni9	A193-B8
中法兰螺母 Bonnet Stud Nut	45	A194-2H	12Cr18Ni9	A194-8	12Cr18Ni9	A194-8

## H44/H47 SWING CHECK VALVE (API)

H44/H47旋启式止回阀(美标)



H44旋启式止回阀(美标)  
H44 Swing check valve (API)



H47斜盘单瓣旋启式止回阀  
Double flanged type tilting disc check

口径 Size		Class 150						Class 300					
NPS	DN	尺寸 Dimensions (mm)				重量 Weight (Kg)	尺寸 Dimensions (mm)				重量 Weight (Kg)		
		L		d	H		L		d	H			
RF	RTJ	BW				RF	RTJ	BW					
2	50	203	216	203	51	132	15	267	283	267	51	144	20
2½	65	216	229	216	64	147	20	292	308	292	64	169	35
3	80	241	254	241	76	176	27	318	333	318	76	210	40
4	100	292	305	292	102	198	45	356	371	356	102	260	61
5	125	330	343	330	127	255	58	400	416	400	127	295	80
6	150	356	368	356	152	320	69	444	460	444	152	326	130
8	200	495	508	495	203	380	131	533	549	533	203	380	190
10	250	622	635	622	254	440	219	622	638	622	254	440	296
12	300	698	711	698	305	480	321	711	727	711	305	520	450
14	350	787	800	787	337	530	380	838	854	838	337	540	640
16	400	864	876	864	387	580	560	864	879	864	387	588	850
18	450	978	991	978	438	618	630	978	994	978	438	670	1030
20	500	978	991	978	489	657	770	1016	1035	1016	483	720	1330
24	600	1295	1308	1295	591	760	960	1346	1368	1346	584	850	1950
26	650	1295	—	1295	633	840	1250	1346	1372	1346	633	920	2300
28	700	1448	—	1448	684	920	1580	1499	1524	1499	684	1150	2600
30	750	1524	—	1524	735	980	1950	1594	1619	1594	735	1260	3200



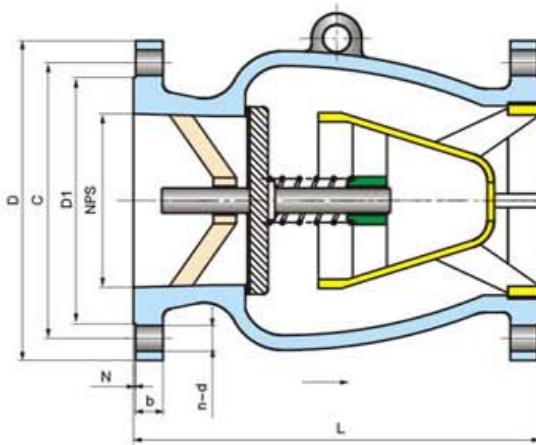
## AXIAL FLOW CHECK VALVE

### 轴流式止回阀

#### 用途 Use

轴流式止回阀具有一般止回阀的功能外，它还设计有减震弹簧，具有消声，减震效果。便于用户现场检修，独特的轴流式结构具有流阻小流量大，外形尺寸小等特点，是国内外油气集输管网系统，特别是输油泵出口的优选阀门。它适用于油、气、水浆液等管道系统，防止介质逆流使用。

Except of the general function of check valve, the axial flow check valve has the advantages of small noise and lower impact with the using of a spring. With the axial flowing structure, the valve has characteristic of small fluid resistance, great flow capacity, and small outer dimension which makes this valve a wonderful choice using on the outlet of pump in pipeline system transporting oil and gas. It is used on the pipeline transporting oil, gas, water and etc. For non-return demanding condition.



#### 结构特点 Structure Features

1. 单体结构，重量轻，刚性好，便于维护。
2. 弹簧的推力使阀瓣在即使用无介质压力作用时，也能处理关闭位置。
3. 良好的支承方式使阀门无论处于什么安装位置时阀瓣和阀座均能良好对中，故阀门可任意角度安装。
4. 阀套外形的流线型设计与体腔流线型设计的组合构成了轴流式止回阀流线型流道，精确的计算和设计使流道的过流面积充分且保持一致，压力损失小，流态稳定，无气蚀。阀瓣在介质流动时产生负压及弹簧推力下回座，无介质对阀瓣背面直接冲击；因此，轴流式止回阀是低噪音阀门。
5. 阀瓣前后两端支承和阀瓣轴的特殊表面处理及结构设计，克服了类似阀门使用过程中经常发生的卡阻现象，启闭平稳；同时避免了因重力因素造成阀瓣对中性差，密封副受力不均，两次动作间密封副吻合部位不一致而影响密封性能的缺陷，使密封副始终处于良好的受力和吻合状态。
6. 精确的设计使用弹簧推力在阀瓣处于关闭位置时略大于阀瓣重力及阀瓣和前后支承间的摩擦力之和，阀瓣既可在低压力及任意安装时回座密封，又能实现低压开启，减低泵启动载荷，保护泵的运行安全。

1. One-piece body, small weight, good strength, and easy maintenance.
2. The thrust force of spring enables the valve stayed in closed position even without the force of medium.
3. Wonderful sealing carrier makes the valve able to be installed at any direction, and the disc can touch the seat sealing perfectly.
4. Axial flow structure and accurate flowing passage enables little pressure loss, stable medium flowing, and no cavitation erosion. The disc returns to the sealing position with the force of spring and sub-pressure caused by medium flowing. So there is no direct impact of the medium onto the back side of the disc. Axial flow check valve is a low-noise type.
5. The special structure and surface treatment of the disc carrier and pin eliminates the phenomenon of valve sticking. It can close and open evenly to avoid the common defects of disc can not stay in the center of sealing position because of the gravity of disc. So the valve has wonderful and lasting sealing effect.
6. In closed position, and accurate design makes the thrust force of spring is a little bigger than the force of disc's gravity plus the friction force between disc and sealing ring. And the disc can return to its sealing position under low pressure despite of any installation position so as to protect the operation of pump.

## AXIAL FLOW CHECK VALVE

### 轴流式止回阀

#### 技术规范 Technical Specifications

设计依据 Design Basis		GB	API/ASME
设计标准 Design Standard		GB/T 21387	API 6D ASME B16.34
结构长度 Face-to-Face		GB/T 12221	API 6D ASME B16.10
连接端* Connection End	法兰连接 Flanged	GB/T 9113	ASME B16.5
抗硫材料要求 Materials		NACE MR0175	
试验和检验 Test and Check		GB/T 26480	API 598

\* 阀门连接端的连接法兰标准和对焊端尺寸可按用户要求设计制造。  
The valve connection end standard designed and manufactured according to user requirements.

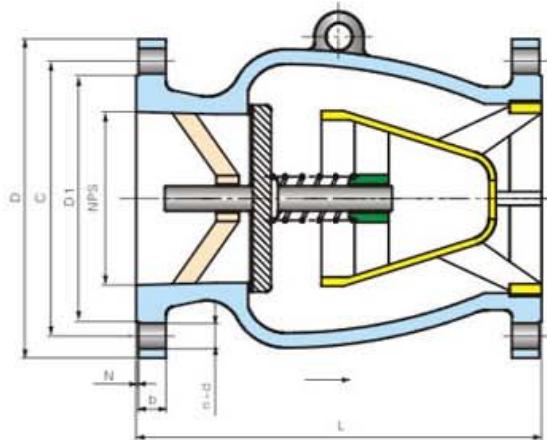
#### 主要零件与材质 Main Parts and Materials

#### 常规型 Conventional Type

零件名称 Part Name	碳钢 Carbon Steel		低温碳钢 Low Temp Steel		不锈钢 Stainless Steel	
	GB	ASTM	GB	ASTM	GB	ASTM
阀体 Body	WCB	A216-WCB	LCB LCC	A352-LCB A352-LCC	CF8 CF8M	A351-CF8 A351-CF8M
阀瓣 Disc	WCB	A216-WCB	LCB LCC	A352-LCB A352-LCC	CF8 CF8M	A351-CF8 A351-CF8M
导向装置 Guiding part	WCB	A216-WCB	LCB LCC	A352-LCB A352-LCC	CF8 CF8M	A351-CF8 A351-CF8M
轴套 Sleeve	12Cr18Ni9	SS304	12Cr18Ni9 00Cr17Ni12Mo2	SS304	12Cr18Ni9 00Cr17Ni12Mo2	SS304 SS316
弹簧 Spring	SS304、SS316、Inconel X-750					

## AXIAL FLOW CHECK VALVE

轴流式止回阀

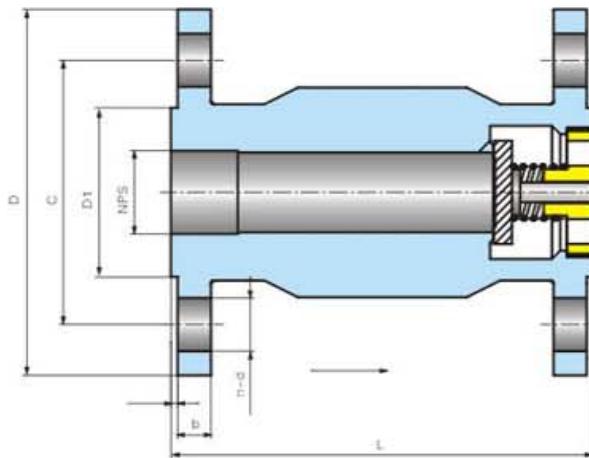


口径 Size		CLASS 150		PN10/16/25		CLASS 300		PN40	
NPS	DN	L		L		L		L	
		RF/BW	RTJ	长系列	短系列	RF/BW	RTJ	长系列	短系列
2	50	203	-	203	130	267	-	267	130
2½	65	216	-	216	160	292	-	292	160
3	80	241	-	241	180	318	-	318	180
4	100	292	-	292	200	356	-	356	200
5	125	330	-	330	230	400	-	400	230
6	150	356	-	356	270	444	-	444	270
8	200	495	-	495	330	533	-	533	330
10	250	622	-	622	370	622	-	622	370
12	300	698	-	698	450	711	-	711	450
14	350	787	-	787	520	838	-	838	520
16	400	864	-	864	580	864	-	864	580
18	450	978	-	978	650	978	-	978	650
20	500	978	-	978	720	1016	-	1016	720
24	600	1295	-	1295	980	1346	-	1346	980
28	700	1448	-	1448	1180	1449	-	-	-
30	750	1524	-	-		1594	-	-	-
36	900	1956	-	-		2083	-	-	-



## AXIAL FLOW CHECK VALVE

轴流式止回阀



口径 Size		CLASS 150		PN10/16/25	CLASS 300		PN40
NPS	DN	L		L	L		L
		RF/BW	RTJ		RF/BW	RTJ	
1/2	15	108	108	80	152	152	80
3/4	20	117	117	80	178	178	80
1	25	127	127	85	216	216	85
1 1/4	32	140	140	110	229	229	110
1 1/2	40	165	165	120	241	241	120

口径 Size		CLASS 150		PN100	CLASS 300		PN160
NPS	DN	L		L	L		L
		RF/BW	RTJ		RF/BW	RTJ	
1/2	15	165	165	90	216	216	110
3/4	20	190	190	90	229	229	110
1	25	216	216	100	254	254	120
1 1/4	32	229	229	120	279	279	140
1 1/2	40	241	241	130	305	305	160

口径 Size		CLASS 1500		CLASS 2500	
NPS	DN	L		L	
		RF/BW	RTJ	RF/BW	RTJ
1/2	15	216	216	264	264
3/4	20	229	229	273	273
1	25	254	254	308	308
1 1/4	32	279	279	349	349
1 1/2	40	305	305	384	384

## WAFER CHECK VALVE MODEL METHODOLOGY

### 对夹式止回阀型号编制方法

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单元号 Unit number	含义 Meaning	各单元代号及说明 Code and description of each unit		
1	专用功能 Special features	H-带阻尼缓闭机构; N-有抗硫要求 (NACE) 的阀门; 没有专用功能省略本单元 H-slow closing mechanism with damping; N-has anti-sulfur requirements (NACE) of the valve; no special features omitted, the unit		
2	阀门类型 Valve type	H		
3	传动方式 Actuated Type	止回阀省略本单元 Check valve is omitted the unit		
4	连接形式 Connection Type	7-对夹连接; 7J-对夹连接, 环连接面; 4-法兰连接; 4J-法兰连接, 环连接面 7 - wafer; 7J - wafer, ring joint surface; 4 - flange connection; 4J - flange connection, ring joint face		
5	结构形式 Construction Type	1-升降式; 6-双瓣旋启式 1 - Lift; 6 - double disc swing		
6	密封面材料 Sealing Face	H-13Cr/13Cr; W-本体材料; Y-不锈钢/硬质合金; M-蒙乃尔合金; E-硬质合金/硬质合金; A-20号合金; T-铜合金; X-丁腈橡胶; F-聚四氟乙烯; S-氟橡胶; K-EPDM三元乙丙橡胶; G-硅橡胶 H-13Cr/13Cr; W-body materials; Y-stainless steel / carbide; M-Monel; E-carbide / carbide; A-20 alloy; T-copper alloy; X-nitrile rubber; F-PTFE; S-fluorine rubber; K-EPDM ethylene propylene diene monomer; G-silicone rubber		
7	压力级 Pressure level	公称压力 (欧洲体系) 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	
		公称压力(美洲体系) Nominal(Inter-American System)	20-PN2.0MPa; 50-PN5.0MPa; 110-PN11.0MPa; 150-PN15.0MPa; 260-PN26.0MPa; 420-PN42.0MPa	
		磅级 Pound	A1-Class150; A3-Class300; A4-Class400; A6-Class600; A9-Class900; A15-Class1500; A25-Class2500	
		JIS K级 JIS K-class	K1-JIS 10K; K2-JIS 20K	
8	阀体材料 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-ZG1Cr18Ni9Ti、1Cr18Ni9Ti; R-ZG1Cr18Ni12Mo2Ti、1Cr18Ni12Mo2Ti; Ti-钛及钛合金; T-铜及铜合金		
9	内件材料 Trim materials	用户没有特殊 要求, 省略本代号 User does not have special Requirements of this code is omitted	P8-304; P3-304L; R8-316; R3-316L; M-Monel; A-20号合金; T-铜合金; Ti-钛及钛合金 A-20 alloy; T-copper alloy; Ti-titanium and titanium alloy	
10	弹簧材料 Spring material		P8-304; P3-304L; R8-316; R3-316L; N6-Inconel 600; N7-Inconel 750	
11	辅助标记 Auxiliary marker	一般情况下 省略本代号 Under normal circumstances The code is omitted	L-PN1.0~PN4.0MPa长系列对夹升降式止回阀; D-PN16.0MPa压力级, 采用GB/T9112~9124、HG 20592~20614、 DIN 2543~2548法兰标准的止回阀; T-采用凸耳对夹连接结构的双瓣旋启式止回阀 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, HG 20592 ~ 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

### 对夹式止回阀的选用及订货须知

1、公称尺寸大于等于DN100MM(NPS4)，以选用H76型对夹双瓣旋启式止回阀为宜，可有效减小止回阀的流体阻力损失：公称尺寸小于等于DN80MM(NPS3)，以选用H71型对夹升降式止回阀为宜。

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 fluidresistance: Nominal size less than or equal DN80mm (NPS3) to use H71-type wafer lift check valve is appropriate.

2、公称尺寸小于等于DN100mm(NPS4)的H71型对夹升降式止回阀由于结构小巧，另外考虑到加工制造工艺，一般不生产碳钢止回阀，建议用户选用不锈钢对夹升降式止回阀。

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、我公司可以生产凸耳对夹双瓣旋启式止回阀，但订货时应注明。一般建议用户选用常规对夹式止回阀，这样用户可以节约费用、缩短交货期，而且常规对夹式止回阀与凸耳对夹式止回阀的使用性能完全相同。凸耳对夹式止回阀有如下几种结构，如果用户没有特殊要求，结构形式一般由本公司根据制造工艺确定。一般法兰螺栓孔数量小于等于12个的凸耳采用花法兰，法兰螺栓孔数量大于等于16个的凸耳采用圆法兰，锻钢阀体一般采用实心圆法兰。

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 a round flange, forged steel valve flange generally use solid round.



花法兰 Flowers flange



圆法兰 Round Flange



实心圆法兰 Real Round Flange

4、部分双瓣旋启式止回阀可以采用双法兰结构设计（H46型），可以采用双法兰结构设计的止回阀规格见下表，由于受阀门结构长度的限制，部分规格的阀门无法采用双法兰结构的设计。

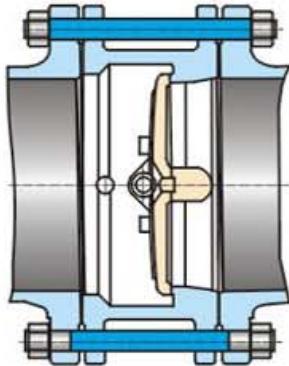
Part of the double disc swing check valves dual flange design (H46 type), you can double check valve flange design specifications of the table below, the length of the valve structure due to the restrictions, some of the specifications of the valve door can not be dual-flange structural design.

可以采用双法兰结构设计的双瓣旋启式止回阀规格范围  
Double flange design can double valve Swing Check Valve Size Range

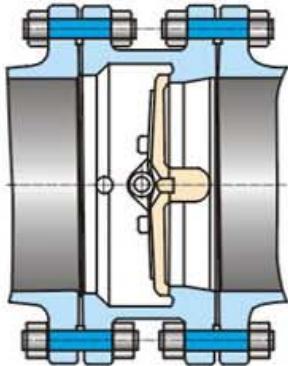
压力级 Pressure	Class 150 PN20	Class 300 PN50	Class 600 PN110	Class 900 PN150	PN10 PN16	PN25	PN40	PN63	PN100
口径范围 Diameter range	≥NPS6 ≥DN150	≥NPS8 ≥DN200	≥NPS10 ≥DN250	≥NPS10 ≥DN250	≥DN125	≥DN200	≥DN200	≥DN150	≥DN250

## WAFER CHECK VALVE SELECTION AND ORDERING INFORMATION

### 对夹式止回阀的选用及订货须知



凸耳对夹双瓣旋启式  
止回阀与管道法兰的连接  
Lug wafer double disc swing check  
valve and pipe flange connection



双法兰连接双瓣旋启式  
止回阀与管道法兰的连接  
Double valve double flanged swing check  
valve and the pipe flange connection

5、凸耳对夹双瓣旋启式止回阀的凸耳法兰仅仅起定位作用，凸耳不承受螺栓力，因此凸耳法兰的厚度不是按标准法兰的厚度设计，通常凸耳法兰的厚度小于标准法兰的厚度。而双法兰接双瓣旋启式止回阀的法兰承受螺栓力，其法兰厚度按法兰标准设计。

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、公称压力PN1.0MPa、PN1.6MPa、PN2.5MPa及PN4.0MPa的对夹升降式止回阀有两种结构长度系列。采用短系列止回阀价格较低，但止回阀与管道法兰之间可能需要采用非标准的连接垫片，如果采用长系列止回阀，可以配制标准法兰垫片。

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、为了方便用户的使用，本公司可提供对夹式止回阀的配套法兰、垫片、连接螺栓及螺母，但用户需要在订货时注明。

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、典型产品可按样本中所列型号进行订货，其它产品可按本样本型号编制方法确定型号订货，如还有特殊要求，请在订货合同中予以说明。

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.

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