止回阀
CHECK VALVE

产品结构特点 Products design features

止回阀适用于压力PN1.6～42.0MPa(Class150～4500)，工作温度-196～600℃的石油、化工、制药、化肥、电力行业等各种工况的管路上，防止介质的倒流。

Check valves are used in pipes under pressures between PN1.6～42.0MPa(Class150～4500Lb), working temperatures -196～600℃, They are used in industries include oil, chemistry, pharmaceutical, fertilizer, and power gene-ration to prevent the backward flux of the media.

特点 Feature

1、产品结构合理、密封可靠、性能优良、造型美观。
2、产品可根据不同的工况选择软质密封或硬质密封。密封面堆焊Co基硬质合金，耐磨、耐蚀、抗擦伤性能更好，使用寿命长。
3、开启压力小，阀瓣在很小的压差下就能完全打开。
4、内装式的销轴结构，减小外泄漏点，使用可靠。
5、公称压力≥16.0MPa(Class1500)中腔采用自紧式密封结构，密封性能随压力升高而增强，保证了密封性能。
6、零件材质及法兰、对焊端尺寸可根据实际工况或用户要求合理选配，满足各种工程需要。

1、The products feature a reasonable structure, reliable seal, good performance and nice modeling.
2、Either soft or hard seal can be selected for the product upon different working conditions.The sealing face is built up with Co-based carbide alloy, leaving a better wearability, corrosion and scrap resistance and a longer duration.
3、Small opening pressure, the disc can be opened fully with a very small pressure differential.
4、Inside-set bolt-bearing structure reduces leakage and reliable use.
5、PN≥16.0Mpa (class1500), the middle cavity uses a self-tightening sealing structure to have the sealing performance reinforced along with the pressure rise so as to ensure the sealing performance.
6、Different parts materials and different sizes for flange, butt-welding are available for sensible combination according to different working facts and customers' requirements.

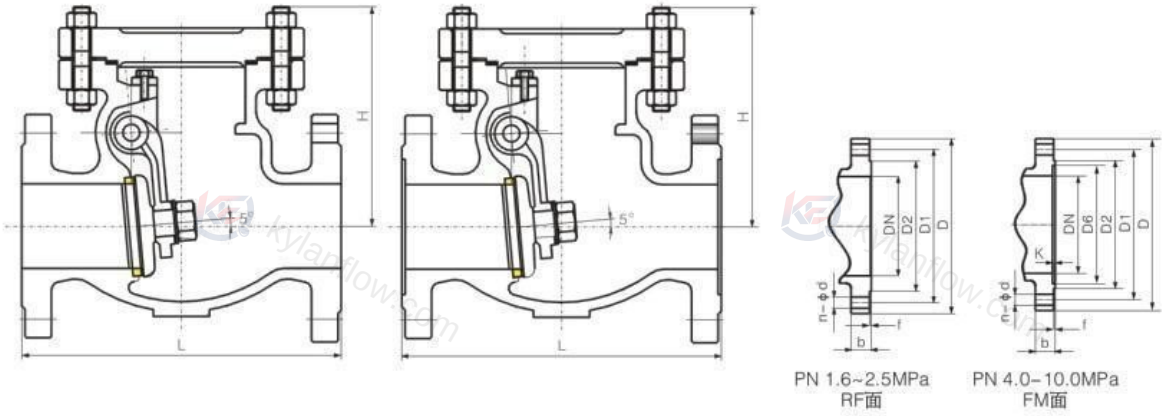
产品主要参数 Main parameter of the products

基本型号 Serial models	H44H(Y)、H64H(Y)、H41H(Y)、H61H(Y)、H42H(Y)、H62H(Y、H74H(Y)、H71H(Y)、H76H(Y)、H72H(Y)
压力等级范围 Pressure grade range	PN1.6～42.0MPa (Class150～4500)
通径范围 Drift diameter range	DN15～1000mm(½"～40")

产品性能规范 Products performance specification

压力等级 Pressure		常温试验压力(MPa) Testing pressure at constant temperature (Mpa)		适用温度 Applicable temperature	适用介质 Applicable medium
		壳体试验 The shell testing	密封试验 Seal and test		
公称压力(MPa) Nominal rating pressure (PN)	1.6	2.4	1.76	-196～600℃	水、油品、蒸汽等 Water , oil , steam ,etc.
	2.5	3.75	2.75		
	4.0	6.0	4.4		
	6.4	9.6	7.04		
	10.0	15.0	11.0		
	16.0	24.0	17.6		
	25.0	37.5	27.5		
磅级(Lb) Pound grade (Class)	150	3.0	2.2		
	300	7.5	5.5		
	600	15.0	11.0		
	900	22.5	16.5		
	1500	37.5	27.5		
	2500	63.0	46.2		

旋启式止回阀
SWING CHECK VALVE



PN 1.6~2.5MPa
RF面

PN 4.0~10.0MPa
FM面

主要外形尺寸 Main outline dimensions　　单位/Unit:mm

型号Type：H44H-16C H44W-16P H44Y-16I							
DN	L	D	D1	D2	b	n-φd	H
50	230	160	125	100	16	4-φ18	135
65	290	180	145	120	18	4-φ18	142
80	310	195	160	135	20	8-φ18	165
100	350	215	180	155	20	8-φ18	180
125	400	245	210	185	22	8-φ18	210
150	480	280	240	210	24	8-φ23	233
200	550	335	295	265	26	12-φ23	304
250	650	405	355	320	30	12-φ25/26	348
300	750	460	410	375	30	12-φ25/26	390
350	850	520	470	435	34	16-φ25/26	430
400	950	580	525	485	36	16-φ30	468
500	1150	705	650	608	44	20-φ34	525
600	1350	840	770	718	48	20-φ36/41	-
700	1450	910	840	788	50	24-φ36/41	-
800	1650	1020	950	898	52	24-φ41	-

主要外形尺寸 Main outline dimensions　　单位/Unit:mm

型号Type：H44H-25C H44W-25P H44Y-25I							
DN	L	D	D1	D2	b	n-φd	H
50	230	160	125	100	20	4-φ18	160
65	290	180	145	120	22	8-φ18	175
80	310	195	160	135	22	8-φ18	185
100	350	230	190	160	24	8-φ23	220
125	400	270	220	188	28	8-φ25/26	248
150	480	300	250	218	30	8-φ25/26	276
200	550	360	310	278	34	12-φ25/26	350
250	650	425	370	332	36	12-φ30	410
300	750	485	430	390	40	16-φ30	430
350	850	550	490	448	44	16-φ34/36	518
400	950	610	550	505	48	16-φ34/36	560
500	1150	730	660	610	52	20-φ36/41	618
600	1350	840	770	718	56	20-φ41	-
700	1450	955	875	815	60	24-φ42/48	-
800	1650	1070	990	930	64	24-φ48	-

旋启式止回阀
SWING CHECK VALVE

主要外形尺寸 Main outline dimensions

单位/Unit:mm

型号Type：H44H-40C H44W-40P H44Y-40I								
DN	L	D	D1	D2	D6	b	n-φd	H
50	230	160	125	100	88	20	4-φ18	160
65	290	180	145	120	110	22	8-φ18	175
80	310	195	160	135	121	22	8-φ18	185
100	350	230	190	160	150	24	8-φ23	220
125	400	270	220	188	176	28	8-φ25	248
150	480	300	250	218	204	30	8-φ25	270
200	550	375	320	282	260	38	12-φ30	350
250	650	445	385	345	313	42	12-φ34	410
300	750	510	450	408	364	46	16-φ34	430
350	850	570	510	465	422	52	16-φ34	518
400	950	655	585	535	474	58	16-φ41	560
500	1150	755	670	612	576	62	20-φ42	-
600	1350	890	795	730	678/676	62	20-φ48/54	-

主要外形尺寸 Main outline dimensions

单位/Unit:mm

型号Type：H44H-64C H44W-64P H44Y-64I								
DN	L	D	D1	D2	D6	b	n-φd	H
50	300	175	135	105	88	26	4-φ23	177
65	340	200	160	130	110	28	8-φ23	197
80	380	210	170	140	121	30	8-φ23	212
100	430	250	200	168	150	32	8-φ25	248
125	500	295	240	202	176	36	8-φ30	296
150	550	340	280	240	204	38	8-φ34	330
200	650	405	345	300	260	44	12-φ34	385
250	775	470	400	352	313	48	12-φ36/41	445
300	900	530	460	412	364	54	16-φ36/41	474
350	1025	595	525	475	422	60	16-φ41	514
400	1150	670	585	525	474	66	16-φ42/48	616
500	1400	800	705	640	576	70	20-φ48/54	-

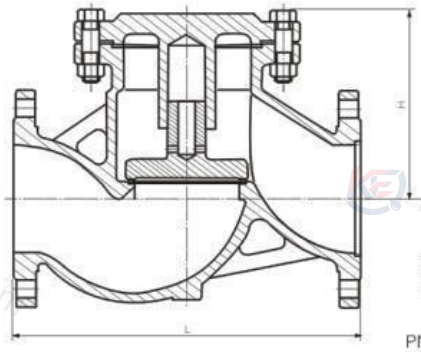
主要外形尺寸 Main outline dimensions

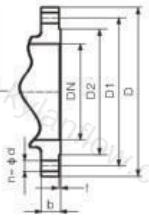
单位/Unit:mm

型号Type：H44H-100C H44W-100P H44Y-100I								
50	300	195	145	112	88	28	4-φ25	210
65	340	220	170	138	110	32	8-φ25	227
80	380	230	180	148	121	34	8-φ25	235
100	430	265	210	172	150	38	8-φ30	274
125	500	310	250	210	176	42	8-φ34	307
150	550	350	290	250	204	46	12-φ34	347
200	650	430	360	312	260	54	12-φ36/41	402
250	775	500	430	382	313	60	12-φ41	432
300	900	585	500	442	364	70	16-φ42/48	484
400	1150	715	620	558	474	80	16-φ48/54	-

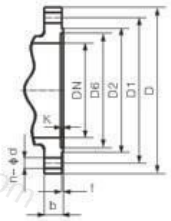
升降式止回阀
PISTON-LIFE TYPE CHECK VALVE







PN 1.6~2.5MPa
RF面



PN 4.0~10.0MPa
FM面

主要外形尺寸及重量/Main Size of Outside & Weight

单位/Unit:mm

型号Type：H41H-16C H41Y-16I H41W-16P H41N-16C

DN	L	D	D1	D2	b	n-φd	H
15	130	95	65	45	14	4-φ14	77
20	150	105	75	55	14	4-φ14	77
25	160	115	85	65	14	4-φ14	80
32	180	135	100	78	16	4-φ18	85
40	200	145	110	85	16	4-φ18	95
50	230	160	125	100	16	4-φ18	105
65	290	180	145	120	18	4-φ18	120
80	310	195	160	135	20	8-φ18	130
100	350	215	180	155	20	8-φ18	140
125	400	245	210	185	22	8-φ18	155
150	480	280	240	210	24	8-φ23	180
200	600	335	295	265	26	12-φ23	215
250	730	405	355	320	30	12-φ25	260
300	850	460	410	375	30	12-φ25	315
400	1100	580	525	485	36	16-φ30	–
500	1250	705	650	608	44	20-φ34	–

型号Type：H41H-25C H41Y-25I H41W-25P H41N-25C

DN	L	D	D1	D2	b	n-φd	H
15	130	95	65	45	16	4-φ14	100
20	150	105	75	55	16	4-φ14	105
25	160	115	85	65	16	4-φ14	120
32	180	135	100	78	18	4-φ18	130
40	200	145	110	85	18	4-φ18	135
50	230	160	125	100	20	4-φ18	149
65	290	180	145	120	22	8-φ18	160
80	310	195	160	135	22	8-φ18	169
100	350	230	190	160	24	8-φ23	194
125	400	270	220	188	28	8-φ25/26	222
150	480	300	250	218	30	8-φ25/26	255
200	600	360	310	278	34	12-φ25/26	305
250	730	425	370	332	36	12-φ30	355
300	850	485	430	390	40	16-φ30	410
400	1100	610	550	505	48	16-φ34/36	–
500	1250	730	660	610	52	20-φ36/41	–

主要外形尺寸及重量/Main Size of Outside & Weight

单位/Unit:mm

型号Type：H41H-40C H41Y-40I H41W-40P H41N-40C

DN	L	D	D1	D2	D6	b	n-φd	H
15	130	95	65	45	40	16	4-φ14	100
20	150	105	75	55	51	16	4-φ14	105
25	160	115	85	65	58	16	4-φ14	120
32	180	135	100	78	66	18	4-φ18	130
40	200	145	110	85	76	18	4-φ18	135
50	230	160	125	100	88	20	4-φ18	149
65	290	180	145	120	110	22	8-φ18	164
80	310	195	160	135	121	22	8-φ18	169
100	350	230	190	160	150	24	8-φ23	194
125	400	270	220	188	176	28	8-φ25	225
150	480	300	250	218	204	30	8-φ25	255
200	600	375	320	282	260	38	12-φ30	305
250	730	445	385	345	313	42	12-φ34	360
300	850	510	450	408	364	46	16-φ34	415
350	980	570	510	465	422	52	16-φ34	–
400	1100	655	585	535	474	58	16-φ41	–

型号Type：H41H-64C H41Y-64I H41W-64P H41N-64C

DN	L	D	D1	D2	D6	b	n-φd	H
15	210	105	75	55	40	18	4-φ14	100
20	230	125	90	68	51	20	4-φ18	110
25	230	135	100	78	58	22	4-φ18	125
32	260	150	110	82	66	24	4-φ23	152
40	260	165	125	95	76	24	4-φ23	168
50	300	175	135	105	88	26	4-φ23	170
65	340	200	160	130	110	28	8-φ23	188
80	380	210	170	140	121	30	8-φ23	205
100	430	250	200	168	150	32	8-φ25	230
125	500	295	240	202	176	36	8-φ30	245
150	550	340	280	240	204	38	8-φ34	265
200	650	405	345	300	260	44	12-φ34	310
250	775	470	400	352	313	48	12-φ36/41	445
300	900	530	460	412	364	54	16-φ36/41	474
350	1025	595	525	475	422	60	16-φ41	514
400	1150	670	585	525	474	66	16-φ42/48	616

磅级止回阀
ASME CHECK VALVE



执行标准 Administer Standard

设计与制造 Design And Manufacture	结构长度 Face to face/End to end	法兰尺寸 Flange Dimension	压力-温度 Pressure Temperature Lating	试验-检验 Inspection And Test
API 6D/BS 1868	ASME B16.10	ASME B16.5	ASME B16.34	API 598/API 6D

压力试验 Pressure Test

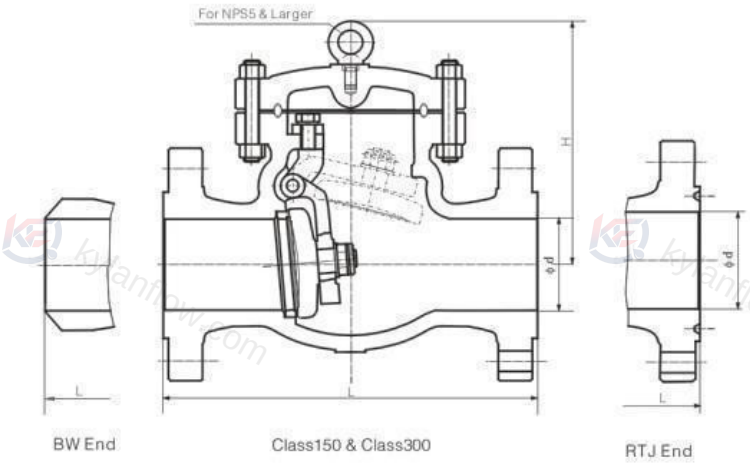
(MPa)

公称压力 Nominal Pressure	强度试验 Shell Test		密封试验(液) Water Seal Test		密封试验(气) Air Seal Test	
	MPa	Lbf/in²	MPa	Lbf/in²	MPa	Lbf/in²
150	3.0	430	2.2	315	0.4-0.7	60-100
300	7.7	1110	5.7	815		
600	15.3	2220	11.3	1630		
900	23.0	3330	17.0	2445		
1500	38.4	5560	28.2	4080		
2500	64.0	9255	47.0	6790		

主要零件材料及性能 Main Part Materials and Property

体盖瓣 摇杆 导向套 Body Cover Disc Hinge Slideway bush	销轴 Hinge pin boss	垫片 Sealing Shim	密封面 Sealing Face	工作温度℃ Working Temperature	适用介质 Suitable Medium
WCB	F6a	增强柔性石墨 1Cr13/柔性石墨 不锈钢/耐酸石棉 PTFE 齿型垫片 Enhanced Flexible graphite 1Cr13/Flexible Graphite S.S/Acid-proof asbestos Tooth profile gasket	13Cr STL 本体材料 With Body Material PTFE 尼龙 Nylon	≤425℃	水、蒸汽、油品 硝酸类、醋酸类 强氧化性介质 尿素 Water Steam Petroleum Products Nitric acid Acetic acid Strongey oxidable medium Urea
WC1	F304			≤450℃	
WC6				≤540℃	
WC9				≤570℃	
C5 C12				≤550℃	
CF8	304			≤200℃	
CF8M	316				
CF3	304L				
CF3M	316L				

磅级旋启式止回阀
ASME SWING CHECK VALVE

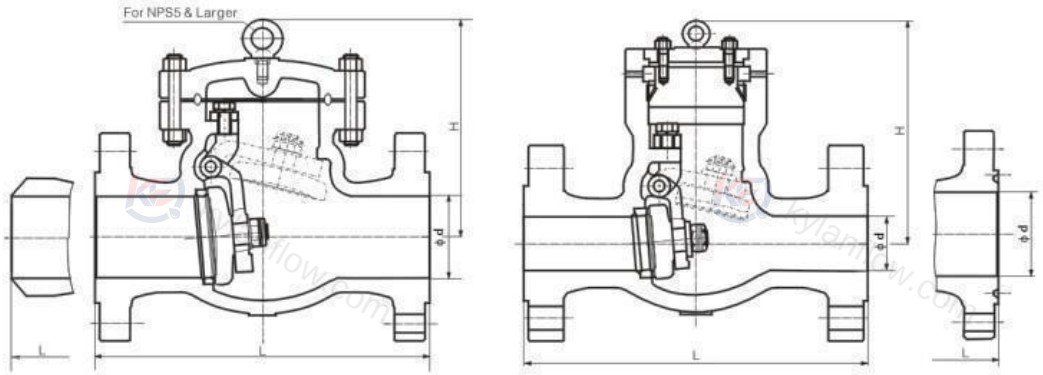


主要外形尺寸及重量 Main Size of Outside & Weight

H44H H44W H44Y

Size		Class 150						Class 300					
NPS	DN	L			d	H	Weight (Kg)	L			d	H	Weight (Kg)
		RF	RTJ	BW				RF	RTJ	BW			
2	50	203	216	203	51	132	15	267	283	267	51	144	20
2 1/2	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	445	460	445	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	699	711	699	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	489	720	1330
24	600	1295	1308	1295	591	760	960	1346	1368	1346	591	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

磅级旋启式止回阀
ASME SWING CHECK VALVE



主要外形尺寸及重量/Main Size of Outside & Weight

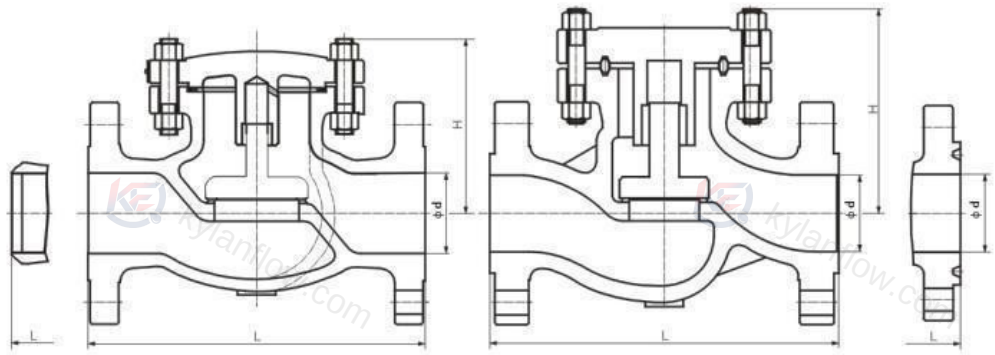
H44H H44W H44Y

Size		Class 600						Class 900					
NPS	DN	L			d	H	Weight (Kg)	L			d	H	Weight (Kg)
		RF	RTJ	BW				RF	RTJ	BW			
2	50	292	295	292	51	170	28	368	371	368	51	200	48
2½	65	330	333	330	64	178	40	419	422	419	64	220	75
3	80	356	359	356	76	246	68	381	384	381	76	280	95
4	100	432	435	432	102	290	117	457	460	457	102	320	135
5	125	508	511	508	127	320	155	559	562	559	127	360	200
6	150	559	562	559	152	360	192	610	613	610	152	400	264
8	200	660	664	660	203	430	340	737	740	737	203	480	424
10	250	787	791	787	254	502	515	838	841	838	254	560	730
12	300	838	841	838	305	554	750	965	968	965	305	632	1070
14	350	889	892	889	337	595	890	1029	1038	1029	322	680	1180
16	400	991	994	991	387	680	1303	1130	1140	1130	373	780	1790
18	450	1092	1095	1092	438	778	1800	1219	1232	1219	423	880	2500
20	500	1194	1200	1194	489	970	2150	1321	1334	1321	471	1050	3080
24	600	1397	1407	1397	591	1100	3200	1549	1568	1549	522	1200	4600

Size		Class 1500						Class 2500					
NPS	DN	L			d	H	Weight (Kg)	L			d	H	Weight (Kg)
		RF	RTJ	BW				RF	RTJ	BW			
2	50	368	371	368	51	210	48	451	454	451	42	230	68
2½	65	419	422	419	64	240	75	508	514	508	52	260	100
3	80	470	473	470	76	303	120	578	584	578	62	330	165
4	100	546	549	546	102	340	180	673	683	673	87	370	260
5	125	673	676	673	127	380	294	794	807	794	96	410	440
6	150	705	711	705	144	430	385	914	927	914	131	460	580
8	200	832	841	832	192	500	634	1022	1038	1022	179	530	970
10	250	991	1000	991	239	590	1140	1270	1292	1270	223	620	1700
12	300	1130	1146	1130	287	660	1650	1422	1445	1422	265	690	2600
14	350	1257	1276	1257	315	710	2000	–	–	–	–	–	–
16	400	1384	1407	1384	360	820	2700	–	–	–	–	–	–

磅级升降式止回阀

ASME PISTON-LIFT TYPE CHECK VALVE



BW End | Class150~Class600 | Class900 | RTJ End

主要外形尺寸及重量/Main Size of Outside & Weight

H41H/Y/W

Size		Class 150						Class 300					
NPS	DN	L			d	H	Weight (Kg)	L			d	H	Weight (Kg)
		RF	RTJ	BW				RF	RTJ	BW			
1/2	15	108	119	108	13	76	3	152	162	152	13	78	5
3/4	20	117	130	117	19	76	4	178	191	178	19	82	6
1	25	127	140	127	25	98	5	203	216	203	25	102	8
1 1/4	32	140	153	140	32	102	7	216	229	216	32	106	11
1 1/2	40	165	178	165	38	115	8	229	242	229	38	118	13
2	50	203	216	203	51	140	15	267	283	267	51	140	26
2 1/2	65	216	229	216	64	162	22	292	308	292	64	164	33
3	80	241	254	241	76	168	28	318	333	318	76	178	50
4	100	292	305	292	102	194	42	356	371	356	102	195	86
5	125	356	368	356	127	210	60	400	416	400	127	223	120
6	150	406	419	406	152	226	75	445	460	445	152	245	180
8	200	495	508	495	203	250	118	533	549	533	203	280	220
10	250	622	635	622	254	275	194	622	638	622	254	336	310
12	300	699	711	699	305	332	320	711	727	711	305	380	510

Size		Class600						Class900					
NPS	DN	L			d	H	Weight (Kg)	L			d	H	Weight (Kg)
		RF	RTJ	BW				RF	RTJ	BW			
2	50	292	295	292	51	152	32	368	371	368	50	180	50
2 1/2	65	330	333	330	64	167	45	419	422	419	64	200	65
3	80	356	359	356	76	178	68	381	384	381	74	235	88
4	100	432	435	432	102	215	98	457	460	457	100	270	140
5	125	508	511	508	125	240	155	559	562	559	125	300	210
6	150	559	562	559	152	279	230	610	613	610	150	350	300
8	200	660	664	660	200	328	300	737	740	737	200	400	390

立式止回阀

VERTICAL CHECK VALVE

产品结构特点 Structure Features

H42H/W立式止回阀磨性能好，摩擦系数小的特殊材料制作，动作灵活可靠 . 密封性能优良。立式止回阀产品广泛应用于石油、化工、制药、电力行业等各种工况的管路上。

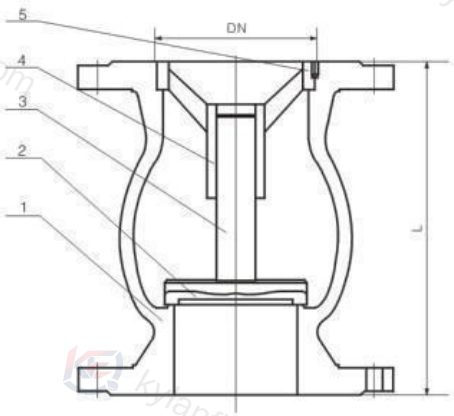
H42h / W vertical check valve is made of special materials with good grinding performance and small friction coefficient, which is flexible and reliable in operation and excellent in sealing performance. Vertical check valve products are widely used in petroleum, chemical industry and manufacturingMedicine, power industry and other conditions of the pipeline.

应用规范 Application Specification

1、阀门的设计与制造按 GB/T 12235-89 的规定
2、阀门的结构长度按 GB/T 12221-89 的规定
3、连接法兰按 JB/T 79-1994 的规定
4、阀门的检验与验收按 JB/T 9092-1999 的规定

1, Valve design and manufacture according to GB/T 12235-89 requirements
2, Valve structural length according to GB/T 12221-89 requirements
3, The connection flange according to JB/T 79-1994 requirements
4, Valve inspection and acceptance by JB/T 9092-1999 requirements





H42W/H

主要零件材质 Parts Material

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	CF8	WCB
2	阀瓣 Disc	304	2Cr13
3	阀杆 Stem	F304	2Cr13
4	定位架 Positioning frame	CF8	WCB
5	定位螺钉 Screws	304	25

主要连接尺寸 Main connection dimensions

PN1.6-4.0MPa

DN	15	20	25	32	40	50	65	80	100	125	150	200
L	85	95	105	150	160	170	180	200	210	275	300	380

PN6.4-10.0MPa

DN	15	20	25	32	40	50	65	80	100	125	150	200
L	90	100	110	160	170	180	190	220	260	300	340	420

蝶形止回阀

BUTTERFLY CHECK VALVE

产品结构特点 Structure Features

H76H、H76Y、H76W、H76X、H76F 型对夹蝶形止回阀用于纯净管路及工业、环保、水处理、高层建筑给排水管路，阻止介质逆向流动之用。

H76H, H76Y, H76W, H76X and H76F wafer butterfly check valves are used for pure pipeline, industrial, environmental protection, water treatment and high-rise building water supply and drainage pipeline to prevent reverse flow of medium.Use of action.

特点 Feature

1、体积小，重量轻，结构紧凑、维修方便
2、阀板采用对偶式，在弹簧的弹性力下矩下可自行速闭
3、因速闭作用，可防止介质倒流
4、阀体结构长度尺寸小，刚性好
5、安全方便，可用于水平垂直两个方向安装

1. Small size, light weight, compact structure and convenient maintenance
2. The valve plate adopts dual type, which can close automatically under the elastic force of spring.
3. Due to the quick closing function, it can prevent the backflow of medium.
4. The length and size of valve body structure are small and the rigidity is good.
5. Safe and convenient, it can be used for



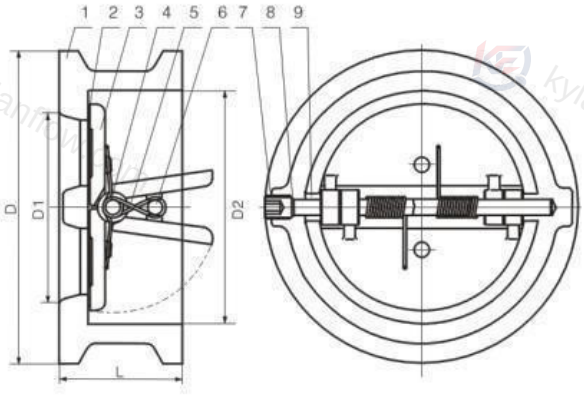
应用规范 Application Specification

1、阀门的设计与制造按 API 594的规定
2、阀门的结构长度按 API 594的规定
3、阀门的检验与验收按 API 598的规定

1, Valve design and manufacture according to API 594requirements
2, Valve structural length according to API 594requirements
3, Valve inspection and acceptance by API 598 requirements

主要零件材质 Parts Material

序号 No.	零件名称 Parts Name	材质 Material	
		不锈钢 Stainless Steel	铸钢 Cast Steel
1	阀体 Body	Cf8	WCB
2	阀座 Seat	CF8+STL	WCB+STL
3	阀瓣 Disc	CF8+STL	WCB+STL
4	铰链销 Hinge pin	0Cr18Ni9	2Cr13
5	填料 Packing	Inconel X-750	Inconel X-750
6	停止销 Stop pin	304	2Cr13
7	螺钉 Screw	0Cr18Ni9	35CrMoA
8	垫片 Gasket	PTFE	PTFE
9	引导衬套 Guide bushing	oCr18Ni9	2Cr13



H76W/H

主要连接尺寸 Main connection dimensions

PN1.6MPa

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800
L	60	67	73	73	86	98	127	146	181	184	191	203	219	222	305	305
D	108	128	142	162	192	218	273	329	384	444	496	556	618	732	802	912
D1	51	65	80	102	127	152	203	254	305	350	400	450	500	600	965	796
D2	56	73	88	108	132	160	210	266	310	355	405	455	505	605	700	800

PN2.5MPa

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800
L	60	67	73	73	86	98	127	146	181	184	191	203	219	222	305	305
D	108	128	142	168	194	224	284	341	401	458	515	565	622	732	831	942
D1	51	65	80	102	127	152	203	254	305	350	400	450	500	600	965	796
D2	56	73	88	108	132	160	210	266	310	355	405	455	505	605	700	800