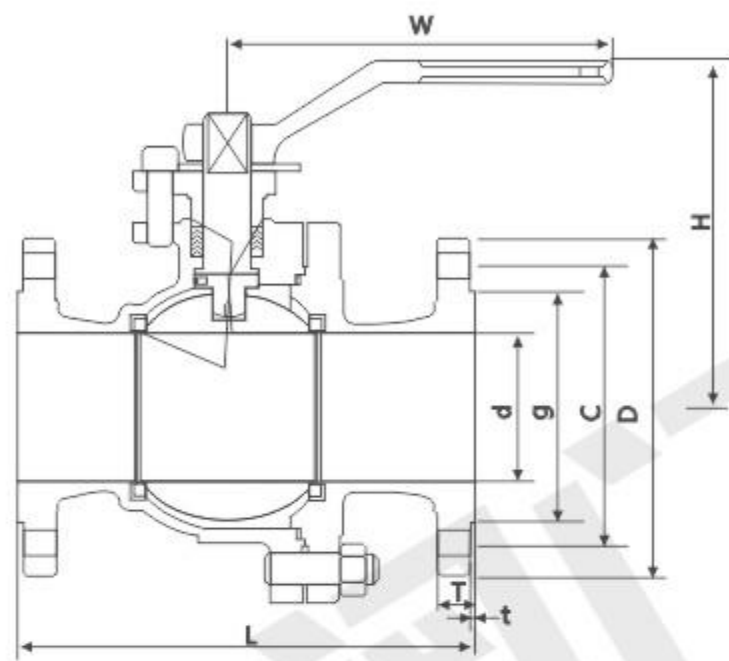


API FLANGE FLOATING BALL VALVE
美标法兰浮动球阀

Q41F-150Lb



应用标准

球阀符合API 608/API 6D标准
球阀符合ISO 10434/ISO 14313标准
防火标志采用API 607 标准
防静电采用API 608标准
符合ASME B 16.34标准
结构长度符合ASME B 16.10标准
法兰尺寸符合ASME B 16.5标准
对接焊符合ASME B 16.25标准
试验与检验符合API 598/API 6D标准

设计描述

全通径设计
螺栓连接
浮动结构
防脱阀杆
防火设计
静电装置
切断装置
ISO5211 固定盘
法兰/焊接端
蜗轮操作

Applicable standards

BALL VALVES, API 608/API 6D
BALL VALVES, ISO 10434/ISO 14313
FIRE DURABLE, API 607
ANTI STATIC, API 608
VALVES, ASME B 16.34
FACE TO FACE, ASME B 16.10
END FLANGES, ASME B 16.5
BUTTWELDING ENDS, ASME B 16.25
INSPECTION AND TEST, API 598/API 6D

Design description:

FULL PORT DESIGN
BB, BOLTED BONNET, SPLIT BODY
FLOATING BALL TYPE
BLOW-OUT PROOF STEM
FIRE DURABLE CONSTRUCTION
ANTI STATIC DEVICE
STOPPER DEVICE
ISO5211 MOUNTING PAD
FLANGED OR BUTT WELDING ENDS
AVAILABLE WITH BG OPERATOR

各部件材质 Materials of parts

序号 NO	零件名称 Part Name	ASTM材质 ASTM Material		
		碳钢Carbon Steel	CF8M	CF8
1	阀体Body	A216-WCB	A351-CF8M	CF8
2	阀盖Bonnet	A216-WCB	A351-CF8M	CF8
3	球Ball	A182-F3041)	A182-F316	F304
4	阀杆Stem	A276-304	A276-316	F304
5	阀座Seat seat	R.PTFE		
6	垫片Gasket	石墨+3042) Graphite+3042)	PTFE	PTFE
7	阀盖螺栓 Valve cover bolt	A193-B7	A193-B8M	A193-B8M
8	阀盖螺母 Valve cover nut	A194-2H	A194-8M	A194-8M
9	填料Packing	PTFE		
10	填料压板 Packing press plate	A216-WCB	CF8	CF8
11	填料螺栓 Packing bolt	A193-B7	A193-B8M	A193-B8M
12	定位片 Positioning sheet	碳钢Carbon Steel	F304	F304
13	手柄Handle	碳钢Carbon Steel		

注释：1、A105+ENP 可选的 Note:1).A105+ENP optional 2、缠绕石墨垫片 2).Spiral wound construction.

API FLANGE FLOATING BALL VALVE
美标法兰浮动球阀

Class 150LB 美标法兰球阀

Size	Dimensions(mm)									
in	d	L	D	C	g	T	t	H	W	n-Φ
1/2"	15	108	89	60.5	35	12.7	1.6	87.5	142	4-15
3/4"	20	117	98	70.0	43	12.7	1.6	87.5	142	4-15
1"	25	127	108	79.5	51	13	1.6	91.5	142	4-15
1 1/4"	32	140	117	89	64	14.5	1.6	107	190	4-15
1 1/2"	40	165	127	98.5	73	15	1.6	128	200	4-15
2"	50	178	152	120.5	92	16	1.6	136	200	4-19
2 1/2"	65	190	178	139.5	105	18	1.6	158	300	4-19
3"	80	203	190	152.5	127	19	1.6	196	350	4-19
4"	100	229	229	190.5	157	24	1.6	212	700	4-19
5"	125	256	254	215.9	186	24	1.6	252	1100	8-22
6"	150	394	279	241.5	261	26	1.6	272	1100	8-22
8"	200	457	343	298.5	270	29	1.6	342	1500	8-22
10"	250	533	406	362	324	30	1.6	345	1500	12-25
12"	305	610	483	432	381	32	1.6	385		12-25
14"	337	686	535	476	413	35	1.6	430		12-29
16"	387	762	597	540	470	37	1.6	470		16-29
18"	489	914	698	635	582	43	1.6	590		16-32

Class 300LB 美标法兰球阀

Size	Dimensions(mm)									
in	d	L	D	C	g	T	t	H	W	n-Φ
1/2"	15	140	95	66.5	35	15	1.6	87.5	142	4-15
3/4"	20	152	117	82.5	43	16	1.6	87.5	142	4-15
1"	25	165	124	89.0	51	18	1.6	91.5	142	4-19
1 1/4"	32	178	133	98.5	64	19	1.6	107	190	4-19
1 1/2"	40	190	156	114.5	73	21	1.6	128	200	4-22
2"	50	216	165	127	92	23	1.6	136	200	8-19
2 1/2"	65	241	190	149	105	26	1.6	158	300	8-22
3"	80	283	210	168.5	127	29	1.6	202	350	8-22
4"	100	305	254	200	157	32	1.6	218	700	8-22
5"	125	381	279	235	186	35	1.6	252	1100	8-22
6"	150	403	318	270	216	37	1.6	272	1100	12-22
8"	200	502	381	330	270	41	1.6	342	1500	12-25
10"	250	568	444	387.5	324	48	1.6	345	1500	16-29

Class 600LB 美标法兰球阀

Size	Dimensions(mm)									
in	d	L	D	C	g	T	t	H	W	n-Φ
1/2"	15	165	95	66.5	35	15	6.4	59	160	4-16
3/4"	20	190	117	82.5	43	16	6.4	63	160	4-19
1"	25	216	124	89.0	51	18	6.4	75	230	4-19
1 1/4"	32	229	133	98.5	64	21	6.4	85	300	4-19
1 1/2"	40	241	156	114.5	73	22.3	6.4	95	400	4-22
2"	50	292	165	127	92	25.4	6.4	107	700	8-19
4"	100	432	273	216	157.2	38	6.4	178	1100	8-25
5"	125	491	330	267	186	44.5	6.4	225	1100	8-29
6"	152	559	356	282	216	47.2	6.4	250	1500	12-29
8"	203	660	419	349	282	55.7	6.4	294	1500	12-32

API GATE VALVE 美标闸阀

Z41H-150Lb



产品概述 Product overview

法兰连接钢制闸阀适用于ANSI Class150~900、PN2.0~16.0MPa、JIS10~20K，工作温度-29~425℃(碳钢)及-40~500℃(不锈钢)的各种管路上，用于截断或接通管路中的介质。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。有手动、伞齿轮传动及电动等。

Flange connected steel gate valves are suitable for various pipelines with ANSI Class 150-900, PN 2.0~16.0MPa, JIS 10~20K, working temperatures of -29~425 °C (carbon steel) and -40~500 °C (stainless steel), and are used to cut off or connect media in pipelines. By selecting different materials, it can be applied to various media such as water, steam, oil, nitric acid, acetic acid, strong oxidizing media, and urea. There are manual, bevel gear transmission, and electric options available.

结构特点 Structural characteristics of

- 1、产品设计制造符合国外先进标准要求，密封可靠，性能优良。
- 2、结构设计紧凑合理，造型美观。
- 3、采用楔式弹性闸板结构，中大口径设置滚动轴承，启闭轻松。
- 4、阀体材料品种齐全，填料、垫片根据实际工况或用户要求合理选配，可适用于各种压力、温度及介质工况。
- 5、采用国内外多种配管法兰标准及法兰密封面型式，满足各种工程需要及用户要求。

Flange connected steel gate valves are suitable for various pipelines with ANSI Class 150-900, PN 2.0~16.0MPa, JIS 10~20K, working temperatures of -29~425 °C (carbon steel) and -40~500 °C (stainless steel), and are used to cut off or connect media in pipelines. By selecting different materials, it can be applied to various media such as water, steam, oil, nitric acid, acetic acid, strong oxidizing media, and urea. There are manual, bevel gear transmission, and electric options available.

主要零件材料 Main components material

名称 Name	材料 Material								
阀体/阀盖 Body/Bonnet	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
闸板 Wedge	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
阀杆 Stem	F304	F304L	F316	F316L	2CR13	F304	F304	F304	F304
阀杆螺母 Stem Nut	铝青铜 Aluminium Bronze								
填料 Packing	PTFE/柔性石墨				石墨 Graphite				
垫片 Gasket	PTFE/金属缠绕垫				石墨 Graphite				
压盖 Gland	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
螺栓 Bolt	不锈钢 Stainless Steel				35CrMoA				
螺母 Nut	不锈钢 Stainless Steel				45、35CrMoA				
手轮 Handwheel	铸钢 Cast Steel								

API GATE VALVE 美标闸阀

Class 150Lb 美标闸阀

Size	Dimensions(mm)								
in	DN	L	D	D1	D2	b	Z-Φd	H	H
1/2"	15	108	89	60.5	35	12	4-Φ15	155	120
3/4"	20	117	98	70	43	12	4-Φ15	160	120
1"	25	127	108	79.5	51	12	4-Φ15	200	140
1 1/2"	32	140	117	89	64	13	4-Φ15	245	160
2"	40	165	127	98.5	73	15	4-Φ15	285	180
2 1/2"	50	178	152	120.5	92	16	4-Φ19	315	200
3"	65	190	178	139.5	105	18	4-Φ19	375	220
4"	80	203	190	152.5	127	19	4-Φ19	400	240
5"	100	229	229	190.5	157	24	8-Φ19	460	280
6"	125	254	254	216	186	24	8-Φ22	540	300
8"	150	267	279	241.5	216	26	8-Φ22	620	320
10"	200	292	343	298.5	270	29	8-Φ22	800	400
12"	250	330	406	362	324	31	12-Φ25	850	450
14"	300	356	483	432	381	32	12-Φ25	1000	500
16"	350	381	533	476	413	35	12-Φ29	1300	600
18"	400	406	597	540	470	37	16-Φ29	1400	600
20"	450	432	635	578	533	40	16-Φ32	1600	650
24"	500	457	398	635	584	43	20-Φ32	1850	650
24"	600	508	813	749.5	692	48	20-Φ35	2200	700

Class 300Lb 美标闸阀

Size	Dimensions(mm)								
in	DN	L	D	D1	D2	b	Z-Φd	H	H
1/2"	15	140	95	66.5	35	15	4-Φ15	155	120
3/4"	20	152	117	82.5	43	16	4-Φ19	160	120
1"	25	165	124	89	51	18	4-Φ19	200	140
1 1/2"	32	178	133	98.5	64	19	4-Φ19	250	160
2"	40	190	156	114.5	73	21	4-Φ22	290	180
2 1/2"	50	216	165	127	92	22	8-Φ19	330	200
3"	65	241	190	149	105	25	8-Φ22	385	220
4"	80	283	210	168.5	127	29	8-Φ22	410	240
5"	100	305	254	200	157	32	8-Φ22	480	280
6"	125	381	279	235	186	35	8-Φ22	630	300
8"	150	403	318	270	216	37	12-Φ22	690	320
10"	200	419	381	330	270	41	12-Φ25	830	400
12"	250	457	445	387.5	324	48	16-Φ29	1003	450
14"	300	502	521	451	381	51	16-Φ32	1137	500
16"	350	762	584	514.5	413	54	20-Φ32	1489	600
18"	400	838	648	571.5	470	57	20-Φ35	1581	600
20"	450	914	711	628.5	533	60	24-Φ35	2017	650
24"	500	991	775	686	584	64	24-Φ35	2228	650
24"	600	1143	914	813	692	70	24-Φ41	2650	700

Class 600Lb 美标闸阀

Size	Dimensions(mm)								
in	DN	L	D	D1	D2	b	Z-Φd	H	H
1/2"	15	165	95	66.5	35	15	4-Φ15	155	155
3/4"	20	190	118	82.5	43	16	4-Φ19	160	160
1"	25	216	124	89	51	18	4-Φ19	200	200
1 1/2"	32	229	133	98.5	64	21	4-Φ19	250	250
2"	40	241	156	114.5	73	23	4-Φ22	290	290
2 1/2"	50	292	165	127	92	26	8-Φ19	350	350
3"	65	330	190	149	105	29	8-Φ22	430	430
4"	80	356	210	168	127	32	8-Φ22	470	470
5"	100	432	273	216	157	38	8-Φ25	570	570
6"	125	508	330	266.5	186	45	8-Φ29	700	700
8"	150	559	356	292	216	48	12-Φ29	750	750
10"	200	660	419	349	270	56	12-Φ32	830	830
12"	250	787	508	432	324	64	16-Φ35	1210	1210
14"	300	838	559	489	381	67	20-Φ35	1350	1350
16"	350	889	603	527	413	70	20-Φ38	1600	1600
18"	400	991	686	603	470	77	20-Φ41	1800	1800
20"	450	1092	743	654	533	83	20-Φ44	2110	2110
24"	500	1194	813	724	584	89	24-Φ22	2350	2350
24"	600	1397	940	838	692	102	24-Φ52	2900	2900

API GLOBE VALVE 美标截止阀

J41 W-150Lb

产品概述 Product overview

美标截止阀主要有API和ASME标准, ASTM是材料标准, 不是阀门本身的标准; 按美国标准设计, 制造, 生产、检测的截止阀叫做美标截止阀。
American standard cut-off valve mainly include API and ASME standard,ASTM material standard,notthe standard valve itself,According to the American standard design,manufacturing,production,testing,the cut-off valve American standard aut-off valve.

产品优点 Product advantages

- A.结构紧凑, 结构比闸阀更简单, 制造和维修方便, 密封面不易磨损, 使用寿命长。
 - B.密封性能优异 阀瓣与阀体密封面之间无相对滑动, 磨损和擦伤较小, 密封性能可靠。
 - C.启闭特性 阀瓣行程短, 占用空间小, 但整体结构长度较长。启闭时需较大力矩, 操作较费力。
 - D.流体阻力大 阀体内介质通道曲折, 动力消耗较大, 仅适用于单方向流动。
 - E.适用场景,适用于介质切断或调节, 尤其在高压 ($\geq 20\text{MPa}$) 工况中常采用逆流设计增强密封性。
- A. It has a compact structure, simpler than a gate valve, and is easy to manufacture and maintain. The sealing surface is resistant to wear, ensuring a long service life.
B. Excellent sealing performance: There is no relative sliding between the valve disc and the sealing surface of the valve body, resulting in minimal wear and tear, ensuring reliable sealing performance.
C. Opening and closing characteristics: The valve disc has a short stroke and occupies little space, but the overall structural length is relatively long. A large torque is required for opening and closing, making the operation strenuous.
D. Due to the large fluid resistance, the medium channel inside the valve body is tortuous, resulting in high power consumption, making it only suitable for unidirectional flow.
E. Applicable scenarios: It is suitable for medium cutoff or regulation, especially in high-pressure ($\geq 20\text{MPa}$) conditions, where a counterflow design is often adopted to enhance sealing performance

标准 Standard

设计与制造 Design and Manufacturing	结构长度 Structural length	法兰尺寸 Flange size	对焊连接尺寸 Welding connection size	压力-温度 Pressure Temperature	试验-检验 Experiment Inspection
ANSI B16.34 BS1873	ANSI B16.10	ANSI B16.5	ANSI B16.25	ANSI B16.34	API 598

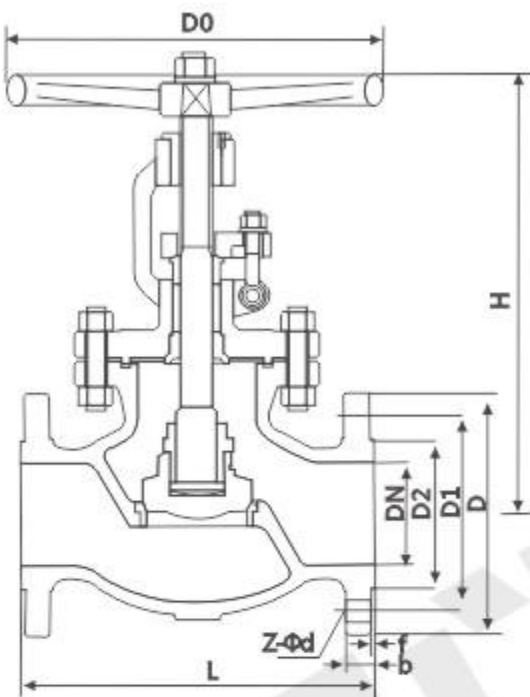
压力试验 Pressure test

公称压力 PN(Lb) Nominal Pressure	强度试验 Strength test		水密封试验 Water seal test		气密封试验 Gas tightness 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 Major parts material and the performance

体盖 Body cover	阀杆 Valve stem	密封面 Sealing surface	垫片 (环) Gasket (ring)	填料 Filler	工作温度 Operating Temperature	适用介质 Suitable medium
WCB	2Cr13	CF8/13Cr/STL 本体材料/尼龙 CF8/13Cr/STL body material/nylon	增强柔性石墨 13Cr/ 柔性石墨 SFB-2 08 软钢 F304 F316 F304L F316L Enhanced flexible graphite 13Cr/flexible graphite SFB-208 soft steel F304 F316 F304LF316L	柔性石墨 增强柔性石墨 Flexible graphite Enhanced flexible graphite	≤ 425	水蒸汽油品 Steam oil products
WC1	38CrMoAl 25Cr2MoV				≤ 425	
WC6					≤ 540	
WC9					≤ 570	
C5 C12					≤ 540	
CF8	F304				≤ 200	硝酸醋酸尿素 Nitroacetic acid urea
CF8M	F316					
CF3	F304L					
CF3M	F316L					

API GLOBE VALVE 美标截止阀



Class 150Lb 美标截止阀

Size	Dimensions(mm)							
in	L	D	D1	D2	b	N-Φd	H	D0
1/2	108	89	60.5	35	11.2	4-16	241	100
3/4	117	98	69.9	43	12.7	4-16	241	100
1	127	108	79.2	51	14.2	4-16	242	125
1 1/4	140	117	89	63	16	4-16	280	160
1 1/2	165	127	98.6	73	17.5	4-16	286	160
2	203	152	120.7	92	19	4-19	368	200
2 1/2	216	178	139.7	105	22.4	4-19	387	200
3	241	190	152.4	127	24	4-19	411	250
4	292	229	190.5	157	24	4-19	454	250
5	356	254	216.0	186	24	8-22.5	455	350
6	406	279	241.3	216	25.4	8-22.5	541	350
8	495	343	298.5	270	28.4	8-22.5	651	450
10	622	406	362.0	324	30.2	12-25.4	800	450
12	698	483	431.8	381	32	12-25.4	1231	600
14	787	533	476.3	413	35	12-29	1450	600
16	914	597	539.8	470	36.6	16-29	1645	600

Class 300Lb 美标截止阀

Size	Dimensions(mm)							
in	L	D	D1	D2	b	N-Φd	H	D0
1/2	152	95	66.5	35	14.2	4-16	241	140
3/4	178	117	82.5	43	16	4-19	241	140
1	203	123	89	51	17.5	4-19	283	160
1 1/4	216	133	98.5	63	19	4-19	320	200
1 1/2	229	155	114.3	73	20.6	4-22.5	322	200
2	267	165	127	92	22.4	8-19	399	200
2 1/2	292	190	149.4	105	25.4	8-22.5	438	250
3	318	210	168.1	127	28.4	8-22.5	464	280
4	356	254	200.2	157	31.8	8-22.5	565	350
5	400	279	235	186	35	8-22.5	614	350
6	444	318	269.7	216	36.6	12-25.4	717	400
8	559	381	330.2	270	41.2	12-25.4	930	500
10	622	444	387.4	324	47.8	16-28.5	1012	550
12	711	521	450.8	381	50.8	16-32	1231	600
14	838	584	514.4	413	54	20-32	1450	600
16	864	648	571.5	470	57.2	20-35	1645	600

API FLANGED SWING CHECK VALVE
美标旋启式止回阀

产品概述 Product overview

我公司生产的美标止回阀，完全按照美国标准设计制造，结构美观、先进。美标止回阀是指依靠介质本身流动而自动开、闭阀瓣，用来防止介质倒流的阀门，又称逆止阀、单向阀、逆流阀。止回阀属于一种自动阀门，其主要作用是防止介质倒流、防止泵及驱动电动机反转，以及容器介质的泄放。

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

性能参数 Performance parameter

序号	项目名称	项目名称					
		150(Lb)	300(Lb)	600(Lb)	900(Lb)	1500(Lb)	2500(Lb)
1	公称压力PN (MPa)	2.0	5.0	10.0	15.0	25.0	42.0
2	壳体强度试验压力 Shell strength test pressure (MPa)	常温下公称压力的1.5倍 1.5 Times the nominal pressure at room temperature					
3	高压密封试验压力 High-pressure sealing test pressure (MPa)	常温下工作压力的1.1倍 1.1Times the nominal pressure at room temperature					
4	常温下工作压力 Nominal pressure at room temperature (MPa)	按ASME B16.34 压力温度额定值 According to ASME B16.34 pressure temperature rating					

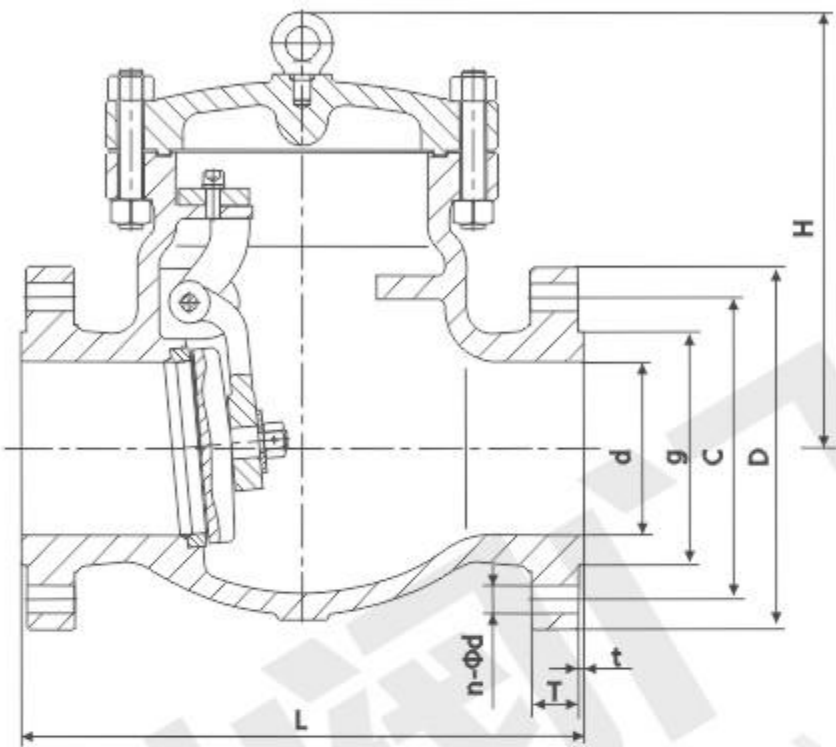
产品规范 Product specification

设计标准 Design	结构长度 Structure Length	法兰连接尺寸 Connection flange	试验与检验 Test and Inspection	压力与温度基准
BS1868/API6D ASME B16.34	ASME B16.10	ASME B16.5 ASME B16.47A系列	API 598/API 6D	ASME B16.34

主要零件材料 Main components material

零件名称 Part Name	材料名称 Material name					
阀体 Valve body	A216 WCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
阀盖 Valve cover	A216 WCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
阀板 Valve plate	A216 WCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
密封面 Sealing surface	13Cr/STL	STL	本体/STL	本体/STL	本体/STL	本体/STL
阀轴 Valve shaft	A182 F6a	A182 F11	A182 F304	A182 F316	A182 F304L	A182 F316L
垫片 Shim	304+柔性石墨/软铁 304+flexible graphite /soft iron	304+柔性石墨/F304 304+flexible graphite /F304	304+柔性石墨/F304 304+flexible graphite /F304	316+柔性石墨/F316 304+flexible graphite /F316	304L+柔性石墨/F304L 304+flexible graphite /F304L	316L+柔性石墨/F316L 304+flexible graphite /F316L
螺栓 Bolt	A193 B7	A193 B16	A193 B8	A193 B8M	A193 B8	A193 B8M
螺母 Nut	A194 2H	A194 4	A194 8	A194 8M	A194 8	A194 8M
使用温度 Operating temperature	-29~425℃	-29~540℃	-46~425℃	-46~425℃	-46~425℃	-46~425℃
适用介质 Suitable medium	水、蒸汽、油品等 Water, steam, oil products, etc	水、蒸汽等 Water, steam, etc	硝酸类弱腐蚀性介质 Nitric acid weakly corrosive medium	硝酸类弱腐蚀性介质 Nitric acid weakly corrosive medium	硝酸类弱腐蚀性介质 Nitric acid weakly corrosive medium	硝酸类弱腐蚀性介质 Nitric acid weakly corrosive medium

H44^H_W-150Lb



Class 150Lb 美标旋启式止回阀

Size	Dimensions(mm)								
in	d	L	D	C	g	T	t	H	n-Φ
1/2"	15	108	89	60.5	35	12	1.6	-	4-15
3/4"	20	117	98	70.0	43	12	1.6	-	4-15
1"	25	127	108	79.5	51	12	1.6	-	4-15
1-1/4"	32	140	117	89	64	13	1.6	-	4-15
1-1/2"	40	165	127	98.5	73	15	1.6	-	4-15
2"	50	203	152	120.5	92	16	1.6	161	4-19
2-1/2"	65	216	178	139.5	105	18	1.6	180	4-19
3"	80	241	190	152.5	127	19	1.6	190	4-19
4"	100	292	229	190.5	157	24	1.6	203	8-19
5"	125	330	254	216	186	24	1.6	229	8-22
6"	150	356	279	241.5	216	26	1.6	257	8-22
8"	200	495	343	298.5	270	29	1.6	292	8-22
10"	250	622	406	362	324	31	1.6	355	12-25
12"	300	698	483	432	381	32	1.6	396	12-25
14"	350	787	533	476	413	35	1.6	445	12-29
16"	400	864	597	540	470	37	1.6	490	16-29
18"	450	978	635	578	533	40	1.6	520	16-32
20"	500	978	698	635	584	43	1.6	546	20-32
24"	600	1295	813	749.5	692	49	1.6	880	20-35
26"	650	1295	786	744.5	711	41	1.6	910	36-22
28"	700	1448	837	795.5	762	44	1.6	935	40-22
30"	750	1524	887	846.0	813	44	1.6	970	44-22