

FLANGED CHECK VALVE

法兰止回阀

结构特征

Structure characteristics

止回阀是一种“自动”阀，顺流时开启，逆流时关闭。靠系统中的介质压力打开阀门，介质倒流时关闭阀门。具体操作因止回阀机构的类型而异。最常见的止回阀类型有旋启式、升降式（活塞和球式）、蝶形、止回阀和倾斜阀盘。产品广泛应用于石油、化工、制药、化肥、电力、城建等行业管路系统。

A check valve is an “automatic” valve that opens when flowing clockwise and closes when flowing counterclockwise. Open the valve by relying on the pressure of the medium in the system, and close the valve when the medium flows back. The specific operation varies depending on the type of check valve mechanism. The most common types of check valves are swing, lift (piston and ball), butterfly, check valve, and tilt disc. The product is widely used in pipeline systems in industries such as petroleum, chemical, pharmaceutical, fertilizer, power, and urban construction.

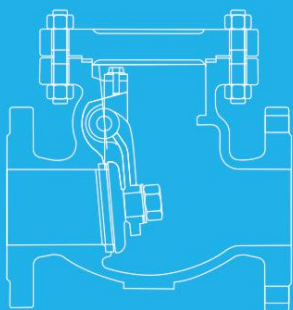
特点

Characteristics

止回阀可分为升降式止回阀、旋启式止回阀和蝶式止回阀三种。升降式止回阀可分为立式和直通式两种。旋启式止回阀分为单瓣式、双瓣式和多瓣式三种。蝶式止回阀可分为为蝶式双瓣、蝶式单瓣，以上几种止回阀在连接形式上可分为螺纹连接、法兰连接、焊接和对夹式连接四种。

Check valves can be divided into three types: lift check valves, swing check valves, and butterfly check valves. Lift check valves can be divided into two types: vertical and straight through. Swing check valves are divided into three types: single disc, double disc, and multi disc. Butterfly check valves can be divided into butterfly double disc and butterfly single disc. The above types of check valves can be connected in four forms: threaded connection, flange connection, welding, and clamp connection.

止回阀系列 GHECK VALVE SERIES



主要零件材料

Material for main parts

材料名称 MATERIAL NAME	阀体、阀盖、闸板 BODY, COVER, GATE	密封 SEALING	阀杆 STEM	填料 PACKING	螺栓/螺母 BOLT/NUT
碳素钢 Carbon steel	WCB	13Cr, STL	Cr13系	柔性石墨 Flexible graphite	35CrMoA/45
奥氏体不锈钢 Austenitic stainless steel	CF8(304), CF8M(316) CF3(304L), CF3M(316L)	本体材料, STL Body material, STL	304, 316 304L, 316L	柔性石墨, PTFE Flexible graphite, PTFE	304/304 316/316
合金钢 Alloy steel	WC6, WC9, 1Cr5Mo, 15CrMo	STL	25Cr2Mo1V	柔性石墨 Flexible graphite	25Cr2Mo1V/35CrMoA
双相钢 Dual phase steel	F51, 00Cr22Ni5Mo3N	本体材料, STL Body material, STL	00Cr22Ni5Mo3N	柔性石墨, PTFE Flexible graphite, PTFE	316/316
低温钢 Low temperature steel	LCB, LF2, 16Mn	STL	1Cr17Ni2, 304	柔性石墨 Flexible graphite	42CrMoA/20CrMoA
钛 Titanium	ZTA1, ZTA2, ZTA10, Gr2, Gr3	本体材料 Body material	TA1, TA2, TA10, Gr2, Gr3, TC4	柔性石墨, PTFE Flexible graphite, PTFE	304/304 316/316
镍 Nickel	哈氏合金Hastelloy	本体材料 Body material	哈氏合金Hastelloy	柔性石墨, PTFE Flexible graphite, PTFE	304/304 316/316

GB, DIN CHECK VALVE

国标、德标止回阀

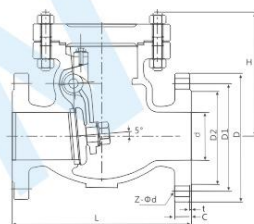
产品材质: 不锈钢、碳钢、双相钢、特殊钢、钛、镍、锆等

设计标准

Design standards

- 设计与制造按GB/T 12236、GB/T 12235
- 结构长度按GB/T 12221
- 法兰连接尺寸按JB/T 79
- 检验按GB/T 26480

- Design and manufacture as GB/T 12236, GB/T 12235
- Face to face dimensions as GB/T 12221
- End flange dimension as JB/T 79
- Pressure test as GB/T 26480



性能规范 Performance specifications

- 公称压力: 1.6, 2.5, 4.0, 6.3Mpa
- 强度试验: 2.4, 3.8, 6.0, 9.5Mpa
- 密封试验: 1.8, 2.8, 4.4, 7.0Mpa
- 气密封试验: 0.6Mpa
- 阀门主体材料: WCB(C), CF8(P), CF3(PL), CF8M(R), CF3M(RL)
- 适用介质: 水、蒸汽、油品、硝酸类、醋酸类
- 适用温度: -29°C ~ 425°C
- Nominal pressure: 1.6, 2.5, 4.0, 6.3Mpa
- Strength test: 2.4, 3.8, 6.0, 9.5Mpa
- Seal test: 1.8, 2.8, 4.4, 7.0Mpa
- Gas seal test: 0.6Mpa
- Valve body material: WCB(C), CF8(P), CF3(PL), CF8M(R), CF3M(RL)
- Suitable medium: water, steam, oil products, nitric acid, acetic acid
- Suitable temperature: -29°C ~ 425°C

主要外形尺寸 Main overall dimensions

DN	d	D		D1	D2	t	C		-Φb		L
		JB/T 79	HG/T 20592				JB/T 79	HG/T 20592	JB/T 79	HG/T 20592	
15	18	95	95	65	45	2	14	16	4-Φ14	4-Φ14	130
20	20	105	105	75	55	2	14	18	4-Φ14	4-Φ14	150
25	25	115	115	85	65	2	14	18	4-Φ14	4-Φ14	160
32	32	135	140	100	78	2	16	18	4-Φ18	4-Φ18	180
40	38	145	150	110	85	3	16	18	4-Φ18	4-Φ18	200
50	50	160	165	125	100	3	16	18	4-Φ18	4-Φ18	230
65	64	180	185	145	120	3	18	18	4-Φ18	4-Φ18	280
80	76	195	200	160	135	3	20	20	8-Φ18	8-Φ18	310
100	100	215	220	180	155	3	20	20	8-Φ18	8-Φ18	350
125	125	245	250	210	185	3	22	22	8-Φ18	8-Φ18	400
150	150	280	285	240	210	3	24	22	8-Φ23	8-Φ22	480
200	200	335	340	295	265	3	26	24	12-Φ23	12-Φ22	600
250	250	405	405	355	320	3	30	26	12-Φ25	12-Φ26	650
300	300	460	460	410	375	4	30	28	12-Φ25	12-Φ26	750

主要外形尺寸 Main overall dimensions

DN	d	D		D1	D2	t	C		-Φb		L
		JB/T 79	HG/T 20592				JB/T 79	HG/T 20592	JB/T 79	HG/T 20592	
15	18	95	95	65	45	2	16	16	4-Φ14	4-Φ14	130
20	20	105	105	75	55	2	16	18	4-Φ14	4-Φ14	150
25	25	115	115	85	65	2	16	18	4-Φ14	4-Φ14	160
32	32	135	140	100	78	2	18	18	4-Φ18	4-Φ18	180
40	38	145	150	110	85	3	18	18	4-Φ18	4-Φ18	200
50	50	160	165	125	100	3	20	20	4-Φ18	4-Φ18	230
65	64	180	185	145	120	3	22	22	8-Φ18	8-Φ18	280
80	76	195	200	160	135	3	22	24	8-Φ18	8-Φ18	310
100	100	230	235	190	160	3	24	24	8-Φ23	8-Φ22	350
125	125	270	270	220	188	3	28	26	8-Φ25	8-Φ26	400
150	150	300	300	250	218	3	30	28	8-Φ25	8-Φ26	480
200	200	360	360	310	278	3	34	30	12-Φ25	12-Φ26	600
250	250	425	425	370	332	3	36	32	12-Φ30	12-Φ30	650
300	300	485	485	430	390	4	40	34	16-Φ30	16-Φ30	750

ANSI, JIS CHECK VALVE

美标、日标止回阀

产品材质: 不锈钢、碳钢、双相钢、特殊钢、钛、镍、锆等

设计标准

Design standards

- 设计与制造按API 6D、BS 1868、ASME B16.34
- 结构长度按ASME B16.10、API 6
- 法兰连接尺寸按ASME B16.5、ASME B16.47、JIS B2220
- 检验和测试按ISO 5208、API 598、BS 6755

- Design & Manufacture as Per: API 6D, BS 1868, ASME B16.34
- Face to face dimension as per: ASME B16.10, API 6D
- Connection ends dimension as per: ASME B16.5, ASME B16.47, JIS B2220
- Inspection and test as per: ISO 5208, API 598, BS 6755

性能规范 Performance specifications

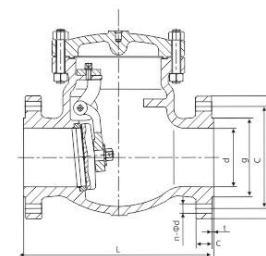
- 公称压力: 150, 300L B, 10K, 20K
- 强度试验: PT3.0, 7.5, 2.4, 5.8Mpa
- 密封试验: 2.2, 5.5, 1.5, 4.0Mpa
- 气密封试验: 0.6Mpa
- 阀门主体材料: WCB(C), CF8(P), CF3(PL), CF8M(R), CF3M(RL)
- 适用介质: 水、蒸汽、油品、硝酸类、醋酸类
- 适用温度: -29°C ~ 425°C
- Nominal pressure: 150, 300L B, 10K, 20K
- Strength test: PT3.0, 7.5, 2.4, 5.8Mpa
- Seal test: 2.2, 5.5, 1.5, 4.0Mpa
- Gas seal test: 0.6Mpa
- Valve body material: WCB(C), CF8(P), CF3(PL), CF8M(R), CF3M(RL)
- Suitable medium: water, steam, oil products, nitric acid, acetic acid
- Suitable temperature: -29°C ~ 425°C

主要外形尺寸 Main overall dimensions

SIZE	d	D	D1	D2	t	C	Class150	
							n-Φd	L
DN15	18	90	60.3	34.9	1.6	10	4-Φ16	108
DN20	20	100	69.9	42.9	1.6	11	4-Φ16	117
DN25	25	110	79.4	50.8	1.6	12	4-Φ16	127
DN32	32	115	88.9	63.5	1.6	13	4-Φ16	140
DN40	38	125	98.4	73	1.6	15	4-Φ16	165
DN50	50	150	120.7	92.1	1.6	16	4-Φ19	203
DN65	64	180	139.7	104.8	1.6	18	4-Φ19	216
DN80	76	190	152.4	127	1.6	19	4-Φ19	241
DN100	100	230	190.5	157.2	1.6	24	8-Φ19	292
DN125	125	255	215.9	185.7	1.6	24	8-Φ22	330
DN150	150	280	241.3	215.9	1.6	26	8-Φ22	356
DN200	200	345	298.5	269.9	1.6	29	8-Φ22	495
DN250	250	405	362	323.8	1.6	31	12-Φ25	622
DN300	300	485	431.8	381	1.6	32	12-Φ25	698

主要外形尺寸 Main overall dimensions

SIZE	d	D	D1	D2	t	C	10K	
							n-Φd	L
DN15	15	95	70	52	1	12	4-Φ15	108
DN20	20	100	75	58	1	14	4-Φ15	117
DN25	25	125	90	70	1	14	4-Φ19	127
DN32	32	135	100	80	2	16	4-Φ19	140
DN40	38	140	105	85	2	16	4-Φ19	165
DN50	50	155	120	100	2	16	4-Φ19	203
DN65	64	175	140	120	2	18	4-Φ19	216
DN80	76	185	150	130	2	18	8-Φ19	241
DN100	100	210	175	155	2	18	8-Φ19	292
DN125	125	250	210	185	2	20	8-Φ23	330
DN150	150	280	240	215	2	22	8-Φ23	356
DN200	200	330	290	265	2	22	12-Φ23	495
DN250	250	400	355	325	2	24	12-Φ25	622
DN300	300	445	400	370	2	24	12-Φ25	698
DN350	350	490	445	415	2	26	16-Φ25	787
DN400	400	560	510	475	2	28	16-Φ27	864



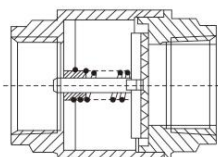
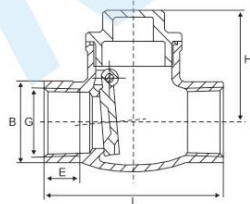
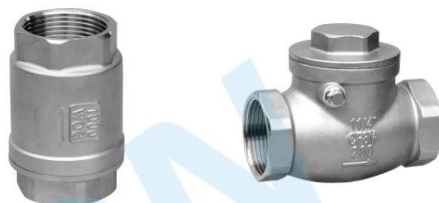
INTERNAL THREAD CHECK VALVE

内螺纹止回阀

产品材质: 不锈钢、碳钢、双相钢、特殊钢、钛、镍、锆等

性能规范 Performance specifications

- 公称压力: PN1.6, 2.5, 4.0, 6.4MPa
- 强度试验压力: PT2.4, 3.8, 6.0, 9.6MPa
- 高压密封试验压力: 1.8, 2.8, 4.4, 7.1MPa
- 适用温度: -29°C~150°C
- 适用介质:
H_{1/2}H-(16-64)C 水、油品、气
H_{1/2}W-(16-64)P 硝酸类
H_{1/2}W-(16-64)R 醋酸类
- Nominal pressure: PN1.6, 2.5, 4.0, 6.4Mpa
- Strength testing pressure: PT2.4, 3.8, 6.0, 9.6Mpa
- Seat testing pressure(high pressure): 1.8, 2.8, 4.4, 7.1Mpa
- Applicable temperature: -29°C~150°C
- Applicable media:
H_{1/2}H-(16-64)C Water, Oil, Gas
H_{1/2}W-(16-64)P Nitric acid
H_{1/2}W-(16-64)R Acetic acid



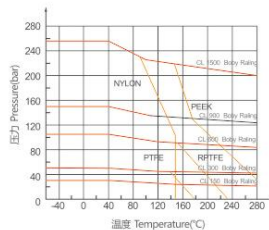
主要零件材料 Material for main parts

材料名称 MATERIAL NAME	H _{1/2} H-(16-64)C	H _{1/2} W-(16-64)P	H _{1/2} W-(16-64)R
阀体 Body	WCB	ZG1Cr18Ni9TiCF8	ZG1Cr18Ni12Mo2TiCF8M
阀盖 Bonnet	WCB	ZG1Cr18Ni9TiCF8	ZG1Cr18Ni12Mo2TiCF8M
阀瓣 Disc	ZG1Cr18Ni9TiCF8	ZG1Cr18Ni9TiCF8	ZG1Cr18Ni12Mo2TiCF8M
密封 Sealing	304, 316, PTFE		
垫片 Gasket	聚四氟乙烯 Polytetrafluorethylene (PTFE)		

旋启式止回阀主要外形尺寸

Main external dimensions of swing check valves

DN	G	L	E	B	H
8	1/4"	65	10	24	42
10	3/8"	65	10	24	42
15	1/2"	65	12	26	42
20	3/4"	75	17	32	46
25	1"	90	20	41	54
32	1 1/4"	105	20	49	58
40	1 1/2"	120	20	56	66
50	2"	140	23	69	74
65	2 1/2"	165	27	86	89
80	3"	185	30	98	102



SILENT CHECK VALVES

消声止回阀

H42X-(10~16, 150LB, 10K)P、R、C

设计标准

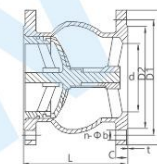
Design standards

- 设计与制造按 GB/T 12235, ASME B16.34, JIS B2074
- 法兰连接尺寸按 JB/T 79, HG/T 20592, ASME B16.5, JIS B2220
- 检验和测试按 GB/T 26480, API 598, JIS B2003
- Design & Manufacture as Per: GB/T 12235, ASME B16.34, JIS B2074
- Connection ends dimension as per: JB/T 79, HG/T 20592, ASME B16.5, JIS B2220
- Inspection and test as per: GB/T 26480, API 598, JIS B2003

性能规范

Performance specifications

- 公称压力: PN10, PN16, 150LB, 10K
- 强度试验压力: PT1.5, 2.4, 3.0, 2.4Mpa
- 高压密封试验压力: 1.1, 1.8, 2.2, 1.5Mpa
- 适用介质: 水及弱腐蚀性介质
- 适用温度: 0~80°C
- Nominal pressure: PN10, PN16, 150LB, 10K
- Strength testing pressure: PT1.5, 2.4, 3.0, 2.4Mpa
- Seat testing pressure (high pressure): 1.1, 1.8, 2.2, 1.5Mpa
- Applicable media: water and corrosive medium
- Applicable temperature: 0~80°C



主要外形尺寸 Main overall dimensions

国标PN16

DN	L	d	D	D1	D2	C	f	n-Φb
50	120	50	160	125	100	16	3	4-Φ18
65	130	63	180	145	120	18	3	4-Φ18
80	150	80	195	160	135	20	3	8-Φ18
100	165	100	215	180	155	20	3	8-Φ18
125	190	124	245	210	165	22	3	8-Φ18
150	210	148	285	240	212	22	2	8-Φ22
200	255	198	340	295	268	24	2	12-Φ22
250	310	240	405	355	320	26	2	12-Φ26
300	320	297	460	410	378	28	2	12-Φ26

美标150LB

SIZE	L	d	D	D1	D2	C	f	n-Φb
2"	120	50	150	120.7	92.1	16.3	2	4-Φ19
2 1/2"	130	63	180	139.7	104.8	17.9	2	4-Φ19
3"	150	80	190	152.4	127	19.5	2	4-Φ19
4"	165	100	230	190.5	157.2	24.3	2	8-Φ19
5"	190	124	255	215.9	185.7	24.3	2	8-Φ22.5
6"	210	148	280	241.3	215.9	25.9	2	8-Φ22
8"	255	198	345	298.5	269.9	29.0	2	8-Φ22
10"	310	248	405	362	323.8	30.6	2	12-Φ26
12"	320	297	485	431.8	381	32.2	2	12-Φ25

日标10k

SIZE	L	d	D	D1	D2	C	f	n-Φb
DN50	120	50	155	120	96	16	2	4-Φ19
DN65	130	63	175	140	116	18	2	4-Φ19
DN80	150	80	185	150	126	18	2	8-Φ19
DN100	165	100	210	175	151	18	2	8-Φ19
DN125	190	124	250	210	182	20	2	8-Φ23
DN150	210	148	280	240	212	22	2	8-Φ23
DN200	255	198	330	290	262	22	2	12-Φ23
DN250	310	248	400	355	324	24	2	12-Φ25
DN300	320	297	445	400	368	24	3	16-Φ25

FORGED CHECK VALVE

锻钢止回阀

产品材质: 不锈钢、碳钢、双相钢、特殊钢、钛、镍、锆等

设计标准

Design standards

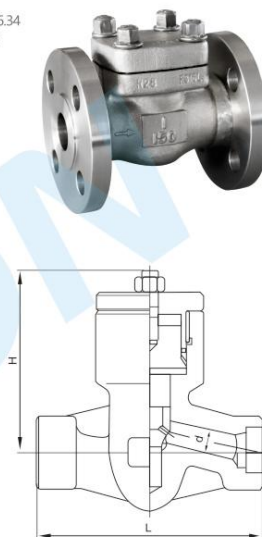
- 设计制造按 BS 5352, ASME B16.34
- 连接尺寸按 ASME B16.11
- 检验和测试按 API 598
- Design & Manufacture as per BS 5352, ASME B16.34
- Connection ends dimension as per ASME B16.11
- Inspection and test as per API 598

性能规范

Performance specifications

- 公称压力: 150~1500LB
- 强度试验: 1.5xPN Mpa
- 密封试验: 1.1xPN Mpa
- 气密封试验: 0.6Mpa
- 阀门主体材料: A105(C), F304(P), F304(PL), F316(R), F316L(RL)
- 适用介质: 水、蒸汽、油品、硝酸类、醋酸类
- 适用温度: -29°C~425°C

- Nominal pressure: 150~1500LB
- Strength test: 1.5xPN Mpa
- Seal test: 1.1xPN Mpa
- Gas seal test: 0.6Mpa
- Valve body material: A105(C), F304(P), F304(PL), F316(R), F316L(RL)
- Suitable medium: water, steam, oil products, nitric acid, acetic acid
- Suitable temperature: -29°C~425°C



主要外形尺寸 Main overall dimensions

H44H(Y)

GB PN16-160

SIZE		压力PN	L(mm)	压力PN	L(mm)	压力PN	L(mm)	压力PN	L(mm)	压力PN	L(mm)	压力PN	L(mm)
in	mm												
1/2	15	PN16	130	PN25	130	PN40	130	PN63	170	PN100	170	PN160	170
3/4	20		150		150		150		190		190		190
1	25		160		160		160		210		210		210
1 1/4	32		180		180		180		230		230		230
1 1/2	40		200		200		200		260		260		260
2	50		230		230		230		300		300		300

H44H(Y)

ANSI 150-2500LB

SIZE		CLASS	L(mm)	CLASS	L(mm)	CLASS	L(mm)	CLASS	L(mm)	CLASS	L(mm)	CLASS	L(mm)
in	mm												
1/2	15	150LB	108	300LB	152	600LB	165	900LB	216	1500LB	216	2500LB	264
3/4	20		117		178		190		229		229		273
1	25		127		203		216		254		254		308
1 1/4	32		140		216		229		279		279		349
1 1/2	40		165		229		241		305		305		384
2	50		203		267		292		368		368		451

FORGED STEEL CHECK VALVE

锻钢止回阀

产品材质: 不锈钢、碳钢、双相钢、特殊钢、钛、镍、锆等

设计制造标准

Design and manufacturing standards

- 设计制造按 API 602, ASME B16.34
- 连接尺寸按 ASME B1.20.1, ASME B16.25
- 检验和测试按 API 598
- Design & Manufacture: API 602, ASME B16.34
- Connection ends dimension as per: ASME B1.20.1 and ASME B16.25
- Inspection and test as per: API 598

性能规范

Performance specifications

- 公称压力: 150~800LB
- 强度试验: 1.5xPN
- 密封试验: 1.1xPN
- 气密封试验: 0.6Mpa
- 阀门主体材料: A105(C), F304(P), F304L(PL), F316(R), F316L(RL)
- 适用介质: 水、蒸汽、油品、硝酸类、醋酸类
- 适用温度: -29°C~425°C
- Nominal pressure: 150~800LB
- Strength testing pressure: 1.5xPN
- Seat test: 1.1xPN
- Gas seal test: 0.6Mpa
- The valve main material: A105(C), F304(P), F304L(PL), F316(R), F316L(RL)
- Suitable medium: water, steam, oil products, nitric acid, acetic acid
- Suitable temperature: -29°C~425°C



主要零件材料 Material for main parts

材料名称 MATERIAL NAME	材料 MATERIAL			
阀体 Body	A105	A182 F22	A182 F304	A182 F316
阀瓣 Disc	A105	A276 F22	A276 304	A182 316
密封面 Sealing surface	铬不锈钢或碳钢堆焊硬质合金 Ni-Cr stainless steel or carbon steel surfacing hardfacing carbide			
阀盖 Bonnet	A105	A276 F22	A182 F304	A182 F316



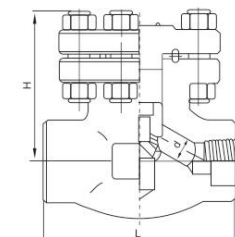
球型止回阀
示意图
Ball type



旋启式止回阀
示意图
Swing type

主要外形尺寸及重量 Main external dimensions and weight

H6 4/1H/Y Size		Class 150~800						
in	mm	d	S	D	G	T	L	H
1/2"	15	10.5	22.5	36	1/2"	10	79	64
3/4"	20	13	28.5	41	3/4"	11	92	66
1"	25	17.5	34.5	50	1"	12	111	82
1 1/4"	32	23	43	58	1 1/4"	14	120	92
1 1/2"	40	29	49	66	1 1/2"	15	152	103
2"	50	35	61.1	78	2"	16	172	122



WAFER TYPE CHECK VALVE

对夹式止回阀

产品材质:不锈钢、碳钢、双相钢、特殊钢、钛、镍、锆等

H7 1/4 W-(16~160, 150LB~900LB, 10K~20K)P, R, C



性能规范

Performance specifications

- 公称压力: PN1.6, 2.5, 4.0, 6.4MPa
- 强度试验压力: PT2.4, 3.8, 6.0, 9.6MPa
- 高压密封试验压力: 1.8, 2.8, 4.4, 7.1MPa
- 适用介质:
 - H7 1/4 H-(16-64)C 水、油品、气
 - H7 1/4 W-(16-64)P 硝酸类
 - H7 1/4 W-(16-64)R 醋酸类
- 适用温度: -29°C~150°C
- Nominal pressure: PN1.6, 2.5, 4.0, 6.4MPa
- Strength testing pressure: PT2.4, 3.8, 6.0, 9.6MPa
- Seat testing pressure(high pressure): 1.8, 2.8, 4.4, 7.1MPa
- Applicable media:
 - H7 1/4 H-(16-64)C Water, Oil, Gas
 - H7 1/4 W-(16-64)P Nitric acid
 - H7 1/4 W-(16-64)R Acetic acid
- Applicable temperature: -29°C~150°C

主要零件材料

Material for main parts

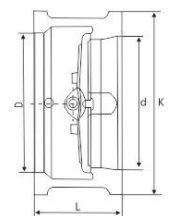
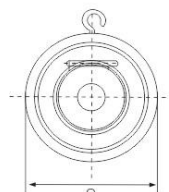
材料名称 MATERIAL NAME	H7 1/4 H-(16-64)C	H7 1/4 W-(16-64)P	H7 1/4 W-(16-64)R
阀体 Body	WCB	ZG1Cr18Ni9Ti CF8	ZG1Cr18Ni12Mo2Ti CF8M
阀瓣 Disc	ZG1Cr18Ni9Ti CF8	ZG1Cr18Ni9Ti CF8	ZG1Cr18Ni12Mo2Ti CF8M
密封 Sealing	304,316,PTFE		

H71主要外形尺寸 H71Main overall dimensions

公称直径	d	D	L
15	1/2"	15	46
20	3/4"	20	56
25	1"	25	65
32	1 1/4"	32	74
40	1 1/2"	40	84
50	2"	50	102
65	2 1/2"	65	121
80	3"	80	131
100	4"	100	156
125	5"	125	190
150	6"	150	220
200	8"	196	270
250	10"	246	328

H76主要外形尺寸 H76Main overall dimensions

公称直径	L	d	K	D
50	2"	60	48	108
65	2 1/2"	67	59	128
80	3"	73	73	142
100	4"	73	92	162
125	5"	86	115	192
150	6"	98	138	218
200	8"	127	186	272
250	10"	146	234	330
300	12"	181	270	375
350	14"	184	315	420
400	16"	191	365	483
450	18"	203	415	538
500	20"	219	465	593
600	24"	222	565	697



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