

卫生止回阀

Sanitary Check Valve

YODSN 永德信®



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应用 / Applications

- 卫生止回阀用于不锈钢管道系统内，以达到防止流体回流的目的。
- Non-return valve is designed for use in stainless steel pipe installations to prevent reverse flow.

工作原理 / Operating Principles

- 当阀杆下部的压力超过阀杆上面的压力以及弹簧力时，止回阀就开启。
- 当阀杆上、下压力平衡时，阀门就会关闭。
- 一个更高的逆向压力会作用于阀杆使其关闭。
- When the lower pressure of valve stem over the upper pressure and spring force, check valve opens.
- When the upper pressure equal to the lower pressure, check valve closes.
- A higher reverse pressure acts on the valve stem and causes valve to close.

标准设计 / Standard Design

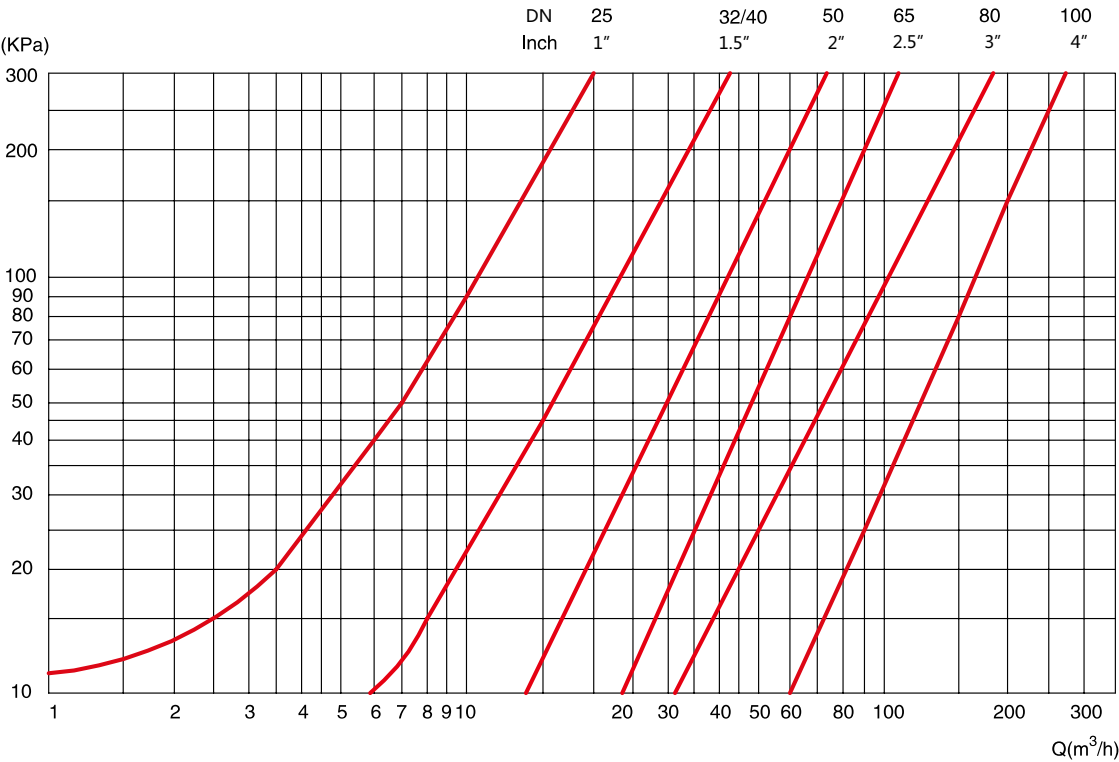
- 止回阀的阀体分为两个部分，通过卡箍组装在一起，并用一种特殊密封圈进行密封。一个导向圆片可用来引导弹簧，并配有矩型密封圈的阀芯。该类止回阀系列具有焊接式，卡箍式与外螺纹式连接端口，可适配各种管道连接。
- Check valve has two parts jointed together by clamp and sealed with the special gasket. This series has welded, clamped and threaded type, suits for kinds of pipeline connection.



技术数据 / Technical Data

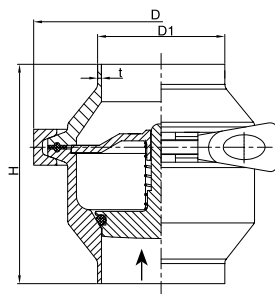
- 若止回阀被安装在一根垂直的管道内，开启阀门所需的压力大约为 6Kpa，最大输送物料压力为 1000Kpa，使用温度范围为 -10℃ - 135℃。
- If the check valves are installed in a vertical pipe, it needs approximately equal pressure 6Kpa to open. Maximum pressure for conveying material is 1000Kpa. Using temperature scope for -10℃ - 135℃.

压力降/处理能力对比图 Pressure Drop/Capacity Diagram



技术参数 / Technical Data

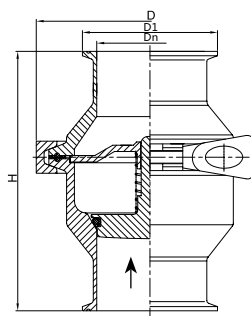
金属材料 Material	产品过流钢制部件 Product wetted steel parts	304/316L
	其他钢制部件 Other steel parts	304
	可提供 EN 10204 3.1B 证书 Provide E N 10204 3.1B certificate	
密封材质 Seal material	标配 standard	三元乙丙 EPDM
	选配 option	硅橡胶 VMQ/ 氟橡胶 (FPM)
	采用进口密封材料，所有密封材质均符合 FDA 177.2600 All seal materials comply with FDA 177.2600	
温度 Temperature	连续工作温度 Running working temperature	VMQ:(-50 ~ +180℃) EPDM :(-20 ~ +135℃) FPM:(-30 ~ +180℃)
	灭菌温度 Sterilization temperature	150℃ (MAX20min)
压力 Pressure	开启压力 Opening pressure	≈ 0.2 bar
	最大工作压力 Max working pressure	10bar
表面处理 Surface treatment	内表面处理 Internal surface	Ra ≤ 0.8 μm
	外表面处理 External surface	Ra ≤ 1.6 μm
连接方式 Connection	连接标准 Connection standard	DIN, SMS, ISO, 3A,RJT,IDF
	连接方式：焊接 . 螺纹 . 快装 . 法兰 Connection method: welded,threaded,clamped,flanged	



NO.1105001

焊接式止回阀 Welded Check Valve					DIN
SIZE	H	D1	D	t	
DN15	75	18	90	1.5	
DN20	75	22	90	1.5	
DN25	75	28	90	1.5	
DN32	75	34	90	1.5	
DN40	75	40	90	1.5	
DN50	80	52	106	1.5	
DN65	105	70	133	2.0	
DN80	110	85	142	2.0	
DN100	120	104	167.5	2.0	
DN125	130	129	195	2.0	
DN150	135	154	224	2.0	

INCH					
SIZE	H	D1	D	t	
3/4"	75	19	90	1.5	
1"	75	25.4	90	1.5	
1 1/4"	75	31.8	90	1.5	
1 1/2"	75	38.1	90	1.5	
2"	80	50.8	106	1.5	
2 1/2"	100	63.5	120	2.0	
3"	105	76.2	134	2.0	
3 1/2"	110	89	142	2.0	
4"	120	101.6	167.5	2.0	
5"	130	129	195	2.0	
6"	135	154	224	2.0	



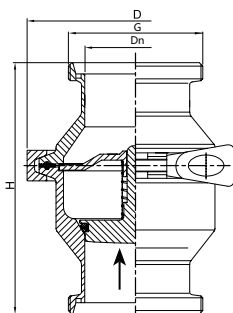
NO.1105002

卡箍式止回阀 Clamped Check Valve					DIN
SIZE	H	Dn	D1	D	
DN15	95	15	34	90	
DN20	95	19	34	90	
DN25	95	25	50.5	90	
DN32	95	31	50.5	90	
DN40	98	37	50.5	90	
DN50	105	49	64	106	
DN65	125	66	91	133	
DN80	135	85	106	142	
DN100	140	100	119	167.5	
DN125	150	125	145	195	
DN150	150	150	167	224	

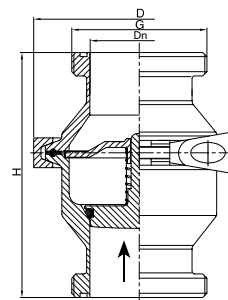
INCH					
SIZE	H	Dn	D1	D	
3/4"	95	16.05	25.4	90	
1"	95	22.4	50.5	90	
1 1/4"	95	28.8	50.5	90	
1 1/2"	98	35.1	50.5	90	
2"	105	57.8	64	106	
2 1/2"	115	59.5	77.5	120	
3"	125	72.2	91	134	
3 1/2"	135	85	106	142	
4"	140	97.6	119	167.5	
5"	150	125	145	195	
6"	150	150	167	224	

螺纹止回阀

Threaded Check Valve



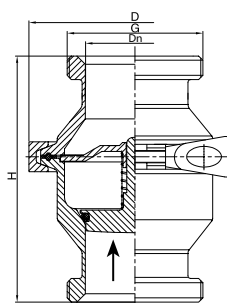
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NO.1105004

DIN				
SIZE	H	Dn	D	G(RD)
DN15	111	15	90	33.5x1/8
DN20	115	19	90	43.5x1/6
DN25	117	25	90	51.5x1/6
DN32	117	31	90	57.5x1/6
DN40	117	37	90	64.5x1/6
DN50	122	49	106	77.5x1/6
DN65	151	66	133	94.5x1/6
DN80	162	81	142	109.3x1/4
DN100	176	100	167.5	129.3x1/4
DN125	190	125	195	159.3x1/4
DN150	199	150	224	189.2x1/4

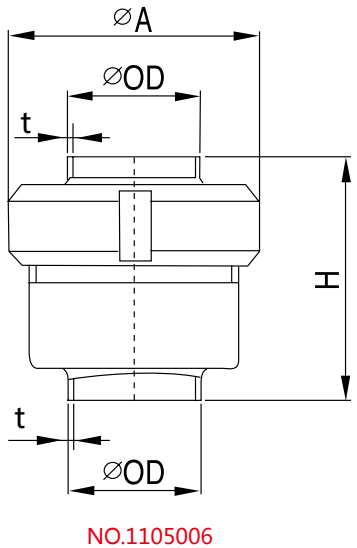
SMS					
SIZE	H	Dn	D	D1	G(RD)
3/4"	107	16.05	90	19	33.5x1/8
1"	111	22.4	90	25.4	39.5x1/6
1 1/4"	115	28.8	90	31.8	47.5x1/6
1 1/2"	115	35.1	90	38.1	59.5x1/6
2"	122	47.8	106	50.8	69.5x1/6
2 1/2"	144	59.5	120	63.5	84.5x1/6
3"	153	72.2	134	76.2	97.5x1/6
3 1/2"	162	85	142	89	109.3x1/6
4"	176	97.6	167.5	101.6	131.3x1/6



NO.1105005

3A				
SIZE	H	D1	G	D
1"	110	22.1	37.13x1/8	90
1 1/2"	110	34.8	50.65x1/8	90
2"	116.5	47.5	64.1x1/8	106
2 1/2"	142	60.2	77.6x1/8	120
3"	152.6	72.9	91.1x1/8	134
4"	171	97.4	119.25x1/6	167.5

活接止回阀
Union type Check Valve



DIN				
SIZE	OD x t	A	H	
25	25.4x1.5	72	65.5	
32	31.8x1.5	72	69.5	
38	38.1x1.5	72	69.5	
51	50.8x1.5	82	76	
63.5	63.5x2	98	102	
76.1	76.2x2	112	102	
101.6	101.6x2	146	127	

INCH				
SIZE	OD xt	A	H	
DN25	28x1.5	72	65.5	
32	34x1.5	72	69.5	
40	40x1.5	72	69.5	
50	52x1.5	82	76	
65	70x2	112	102	
80	85x2	140	106	
100	104x2	146	127	