

止回阀+恒压阀+安全阀+减压阀
Check valve+constant pressure valve+safety valve
+air release valve



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国家高新技术企业 浙江省著名商标
www.cndonjoy.com



东正一直致力于重大技术进步，是您值得信赖的事业伙伴！
Donjoy committing to major technological advances, is your reliable business partner!

0.1	自控调节阀+控制器 Automatic control regulating valve + Control head
0.2	生物制药隔膜阀 Biopharmaceutical diaphragm valve
0.3	高洁净泵 High purity pumps
0.4	防混蝶阀+蝶阀 Mixing proof butterfly valve + Butterfly valve
0.5	球阀 Ball valve
0.6	截止换向阀+防混阀+罐底阀 Divert seat valve+Mixing proof valve + Tank bottom valve
0.7	角座阀+截止阀 Angle seat valve+Globe valve
0.8	止回阀+恒压阀+安全阀+减压阀 Check valve+constant pressure valve+safety valve +air release valve
0.9	清洁技术+取样阀+视镜+照明技术 Clean technology+sample valve+sight glass +lighting technology
0.10	过滤器+人孔 Filter+man hole cover(manway)
0.11	卫生管件 Sanitary fittings ASME BPE DIN11852 Bs4825 SMS ISO IDF 3A



注意：
目录技术资料仅供设计参考，
设计更新和技术升级恕不另行通知！

不断革新的技术、日新月异的市场发展和客户需求是当今我们面临的最大挑战。面对这些挑战我们信心十足，因为东正高度专业化的产品和技术创新，是我们未来将以更高、更优的产品来满足不断增长的市场需求。

Technological innovation, rapid development of the market and customer needs are the greatest challenges facing us today. Facing with these challenges we are confident, because of highly professional products and technological innovation, we will meet the growing demand of market and customer with our better and better products.

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关于东正 About DONJOY



温州滨海经济开发区生产基地
Wenzhou binhai economic development zone production base

东正创立于1993年，注册资金5508万，是一家专注于研发高品质PID过程控制器、阀门定位器、流量控制器，阀门控制单元，高洁净过程控制阀、智能自控阀，高洁净泵、高洁净管材和管道配件。公司高度专业化的产品和技术专注于生物制药、食品饮料、酿酒、精细化工等工业领域。东正众多的创新解决方案，对满足全球，尤其是新兴市场不断增长生物制药和食品饮料行业的需求起到了积极作用。

东正制造的产品母材料、加工技术、焊接技术、表面处理等技术指标均已达到国内外先进水平。且符合ASME BPE、EHEDG、FDA、3A等一系列国际标准和规范要求，先后通过了由德国TÜV机构实施的欧盟承压设备指令(PED-97/23/EC)和(MD-06/42/EC)认证、美国3A机构实施的3-A卫生标准认证、中国安全阀特种制造设备(TS)许可证和中国质量认证中心CQC ISO9001:2008质量管理体系认证等多项国际权威认证。

东正凭借先进的技术、优异的品质和完善的售后服务体系，先后被评定为国家高新技术企业，省著名商标、省科技型企业、创新型企业、专利示范企业、研发中心企业，守合同重信用AAA 业等众多荣誉。

温州空港经济园区生产基地
Wenzhou airport economic zone production base

占地面积29000m²，总投资1.2亿元，该基地建成后预计年可实现销售额5亿元。生产基地，新引进ABB工业机器人、日本马扎克5轴加工中心、ABB机器人抛光设备。

Covering an area of 29000 m², with total investment after construction is expected to 120 million yuan, the base to achieve sales of 500 million yuan. Production base, introduces new ABB industrial robot, Japan mazar-e-sharif grams of five axis machining center, ABB machine Polishing equipment.

Donjoy was built up in 1993, with registered capital RMB 55,08 millions. We focus on developing high quality PID process controller, the valve positioner, the flow controller, the valve control unit, high purity process control valve, intelligent self-control valve, high purity pump, high purity tubing fitting and pipeline accessories. Donjoy's products and technologies are widely used in biopharmaceutical, food, drink, wine fine chemicals and other industrial fields. Donjoy's innovation solutions meet the growing demand of the industry of biopharmaceutical, food and beverage from the whole world, especially the emerging market.

Raw material, processing technology, welding technology, surface treatment from Donjoy have achieved advanced levels of domestic and foreign market. Donjoy productions according to ASME BPE, EHEDG, FDA and 3A standard, get certificate of PED-97/23/EC and MD-06/42/EC issued by TUV, 3A issued by 3A organization, TS licence and ISO9001:2008.

Donjoy with advanced technology, excellent quality and perfect after-sales service system, has been assessed as the national high-tech enterprises, the Provincial Famous Trademark, the Trovincial Science and Ttechnology Enterprises, Innovative Enterprises, Patent Model Enterprises, R & D Center, AAA Credit Enterprises.



荣誉与资质 Honor and qualification



3A

东正是美国3A认证组织的成员，3A是一个自愿组织，致力于维护公共卫生和奶制品产品质量通过独特的行业监管程序的设备，用于处理乳制品的卫生标准3A认证。东正通过认证产品，阀门系列(54-02)证书号(1580)，泵系列(02-10)证书号(1579)，管件(63-03)证书号(1581)等多种规格型号。



PED/97/23/EC & MD/06/42EC

东正通过了TUV NORD欧共体压力设备97/23/EC质量保证模式H&材料(管件)制造认证。
阀门证书 NO.CE 0036
泵类证书 NO.705201402401-00



FDA177.2600

东正生产的阀门和泵以及流体设备等，与物料接触密封圈全部通过或符合美国食品和药品管理局和联邦法规第21条即，CRF 21 FDA177.2600和FDA177.1550认证，其涵盖：
EPDM VITON(FPM) SILICON HNBRTFE橡胶塑料材料等。



ISO9001/2008

东正通过中国质量认证中心CQC，ISO9001-2008/GB/T19001-2008企业质量管理体系认证。其证书编号: 00108Q24215R1M/3302



安全阀特种制造许可证(TS)

东正通过了安全阀特种设备制造许可证，
目前是国内首家通过“高洁净安全阀特种制造许可证”的企业
(安全附件及安全保护装置)。



高新技术企业

东正通过多年发展和技术创新已获得了多项国家发明专利，100多项实用新型专利，现已成为国家高新技术企业。



浙江省著名商标

东正09年获得了温州市著名商标，2012年获得了浙江省著名商标。

DONJOY不但拥有以上认证和荣誉，且被评定为省科技型、创新型、专利示范、研发中心、守合同守信用企业等众多的荣誉证书。

止回阀 Check valve



应用 Applications

- ◆ 止回阀是一种阻止流体回流的阀门，保证流体流向唯一性。
- ◆ 它可用于保护液体回吸的损失，防止管道液击。
- ◆ 它应用到食品加工、饮料、酿酒、炼油、化妆品、制药和化学制品工业中。

- ◆ Check valve is a valve that prevents the fluid from flowing back and ensures to flow in only one direction.
- ◆ It can be used to prevent the flow less from returning avoid pipe – hammering.
- ◆ It is used in the food – processing, beverages, wine, oil , cosmetics, pharmaceutical and chemical industries.

操作原理 Operating principle

- ◆ 当流体的压力大于弹簧的压力时，阀门打开。
当两种压力相当时，阀门关闭。
更强大的压差也可以使阀门关闭。
- ◆ The valve opens when the pressure of the fluid exceeds the pressure to spring, When the two pressures are equalised, the valve closes. A stronger counter –pressure also makes the valve close.

设计和特点 Design and features

- ◆ 规格DN25/1"到DN100/4" ◆ Sizes DN25/1" to DN100/4"
- ◆ 拆卸简单 ◆ Easy disassemble
- ◆ 小规格结构 ◆ Small – size construction
- ◆ DIN11851连接(标准) ◆ DIN11851 connections (standard)



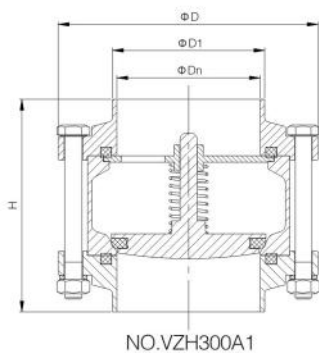
止回阀 Check valve

材质 Materials

- ◆外部构造和轴 AISI 316L/AISI 304
- ◆弹簧 AISI 301
- ◆垫圈 EPDM根据FDA 117.2600
- ◆表面处理 $Ra \leq 0.8 \mu m$
- ◆Casing / shaft AISI 316L/AISI 304
- ◆Spring AISI 301
- ◆EPDM Seal according to FDA 177.2600
- ◆Surface finishing $Ra \leq 0.8 \mu m$

技术规范 Technical specifications

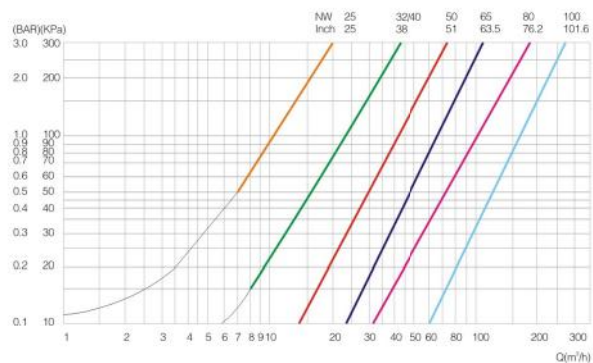
- ◆最大压力: 10bar
- ◆开启压力: 0.3bar(DN25)
0.2bar(DN32/40)
0.1bar(DN20/100)
- ◆工作温度: $-10^{\circ}C$ 到 $+120^{\circ}C$ (EPDM)
- ◆Max. Pressure 10 bar
- ◆Opening pressure: 0.3 bar (DN25)
0.2 bar (DN32/40)
0.1 bar (DN50/100)
- ◆Working temperature: $-10^{\circ}C$ to $+120^{\circ}C$ (EPDM)



选项 Options

- ◆垫圈有NBR、FPM(氟橡胶)或PTFE, 所有都根据FDA117.2600
- ◆连接: 焊接、螺纹、卡箍
DIN、SMS、RJT、IDF、ISO、3A
- ◆Seals in NBR, FPM(Viton) or PTFE, All of them according to FDA 177.2600
- ◆Connections: weld, thread, clamp,
DIN SMS, RJT, IDF, ISO, 3A

止回阀曲线图 Check valve curve



三片式止回阀 Three piece check valves

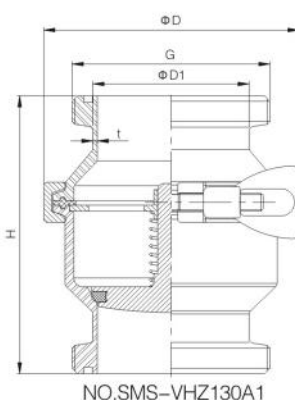
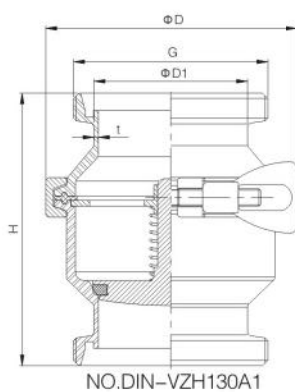
DIN

SIZE	H	D1	Dn	D
DN40	83	40	37	90
DN50	88	52	49	102
DN65	98	70	66	120
DN80	108	85	81	142
DN100	116	104	100	168
DN125	156	129	125	210
DN150	166	154	150	240
DN200	200	204	200	300

INCH

SIZE	H	D1	Dn	D
1 1/2"	83	38.1	35.1	90
2"	88	50.8	47.8	102
2 1/2"	98	63.5	59.5	120
3"	108	76.2	72.2	142
3 1/2"	108	89	85	142
4"	116	101.6	97.6	168
5"	156	127	122.8	210
6"	166	152.4	146.8	240
8"	200	203.2	197.6	300

阀体卡箍连接式
Body clamp connection



螺纹式 Threaded

DIN

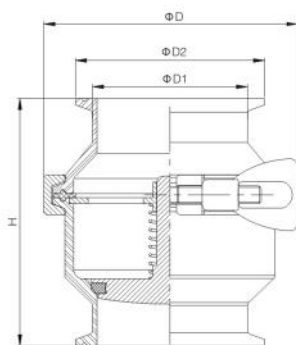
SIZE	H	D1		D	t	G(RD)
		1	2			
DN15	103	18	19	72	1.5	33.5 × 1/8
DN20	107	22	23	72	1.5	43.5 × 1/6
DN25	109	28	29	72	1.5	51.5 × 1/6
DN32	111	34	35	87	1.5	57.5 × 1/6
DN40	111	40	41	87	1.5	64.5 × 1/6
DN50	129	52	53	100	1.5	77.5 × 1/6
DN65	139	70	—	115	2.0	94.5 × 1/6
DN80	151	85	—	128	2.0	109.3 × 1/4
DN100	176	104	—	164	2.0	129.3 × 1/4

除"G"尺寸外，其余尺寸适用于RJT/ISO/IDF螺纹
Addition to "G" size, the other sizes apply to RJT/ISO/IDF and other thread

SMS

SIZE	H	D	D1	G(RD)
3/4"	107	72	19	35.5 × 1/6
1"	107	72	25.4	39.5 × 1/6
1 1/4"	107	87	31.8	47.5 × 1/6
1 1/2"	111	87	38.1	59.5 × 1/6
2"	127	100	50.8	69.5 × 1/6
2 1/2"	141	115	63.5	84.5 × 1/6
3"	151	128	76.2	97.3 × 1/6
3 1/2"	153	128	89	104.3 × 1/6
φ102小	173	164	101.6	124.3 × 1/4
φ102大	173	164	101.6	131.3 × 1/6

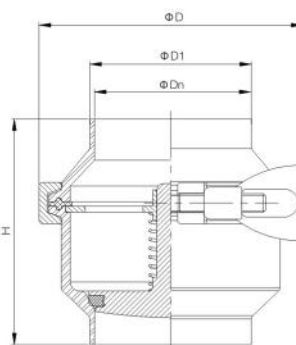
止回阀 Check valve



NO.VZH110A1

DIN				
SIZE	H	D1	D2	D
DN10	95.5	12	34	72
DN15	95.5	18	34	72
DN20	95.5	22	34	72
DN25	95.5	28	50.5	72
DN32	97.5	34	50.5	87
DN40	97.5	40	50.5	87
DN50	113.5	52	64	100
DN65	119.5	70	91	115
DN80	127.5	85	106	128
DN100	152.6	104	119	164

INCH				
SIZE	H	D1	D2	D
1/2"	95.5	12.7	25.4	72
3/4"	95.5	19	25.4	72
1"	95.5	25.4	50.5	72
1 1/8"	97.5	31.8	50.5	87
1 1/2"	97.5	38.1	50.5	87
2"	113.5	50.8	64	100
2 1/2"	119.5	63.5	77.5	115
3"	127.5	76.2	91	128
3 1/2"	127.5	89	106	128
4"	152.6	101.6	119	164



NO.VZH100A1

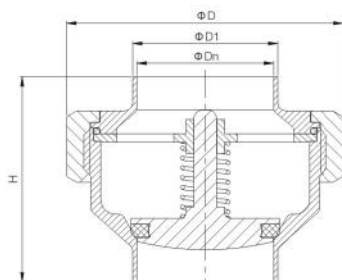
DIN				
SIZE	H	D1	D	Dn
DN10	70	12	72	9
DN15	70	18	72	15
DN20	70	22	72	19
DN25	70	28	72	25
DN32	72	34	87	31
DN40	72	40	87	37
DN50	88	52	100	49
DN65	94	70	115	66
DN80	102	85	128	81
DN100	121	104	164	101

INCH				
SIZE	H	D1	D	Dn
1/2"	70	12.7	72	9.7
3/4"	70	19	72	16
1"	70	25.4	72	22.4
1 1/8"	72	31.8	87	28.8
1 1/2"	72	38.1	87	35.1
2"	88	50.8	100	47.8
2 1/2"	94	63.5	115	59.5
3"	102	76.2	128	72.2
3 1/2"	102	89	128	85
4"	121	101.6	164	97.6



阀体螺母连接式止回阀

- ◆ 连接方式: 焊接、螺纹
- ◆ 执行标准: DIN, SMS, ISO, IDF, RJT
- ◆ 规格: DN25-DN100, 1"-4"
- ◆ Connections: Weld, Thread
- ◆ Standard: DIN, SMS, ISO, IDF, RJT
- ◆ SIZE: DN25-DN100, 1"-4"



NO.VZH200A01

DIN				
SIZE	H	D1	Dn	D
DN25	65	28	25	70
DN32	65	34	31	70
DN40	65	40	37	82
DN50	74	52	49	97
DN65	85	70	66	118
DN80	93	85	81	138
DN100	103	104	100	158

INCH				
SIZE	H	D1	Dn	D
1"	65	25.4	22.4	70
1 1/8"	65	31.8	28.8	70
1 1/2"	65	38.1	35.1	82
2"	74	50.8	47.8	97
2 1/2"	85	63.5	59.5	118
3"	93	76.2	72.2	138
3 1/2"	93	89	85	138
4"	103	101.6	97.6	158

安全阀(溢流阀) Safety valve (over flow valve)

DONJOY创新设计，专利保护
卫生安全阀特种制造许可证



压力调节标尺



应用 Applications

- ◆ 该安全阀是用于保护流经管道、泵、附件、池子等压力的安全。
- ◆ 该安全阀的设计健康安全，防止危险及由于压力导致的设备故障。
- ◆ 卫生的设计和完全不锈钢制造，该阀门是乳制品、食品、饮料、制药、精细化工工业中用于保护设备的最好选择。
- ◆ The safety valve is used to protecting pipe, pump from over pressure
- ◆ Sanitary and safe design is to prevent operation danger and equipment breakdown due to pressure.
- ◆ With sanitary design stainless steel, the valve is the best choice for protection equipments in diary, food, beverage, pharmacy and fine chemical industries.

操作原理 Operating principles

- ◆ 一般操作条件下，该阀门保持关闭。
- ◆ 通过调节带有压力螺母的弹簧，阀该门被校准到一个特定的压力。
- ◆ 当管路中的压力超过特定的压力时，阀门打开，让流体通过，以此减少管道系统中的压力。
- ◆ 该阀门可以带手柄，从而实现阀门部分开启。当手柄在现场清洗过程中保持开启状态时，清洗产品可以流经阀门。
- ◆ The valve is normally closed.
- ◆ Pressure is set by spring with pressure nut.
- ◆ When the pressure in the pipe exceeds to the specify pressure, the valve open automatically to make the liquid flow in order to reduce pressure.
- ◆ The valve can be with handle to realize partial open. When the handle remains open on the spot, liquid can flow through the valve.

安全阀(溢流阀) Safety valve (over flow valve)

选项 Options

- ◆连接: 卡箍、法兰、螺纹、焊接、DIN、SMS、RJT、IDF、3A
- ◆垫圈材质: EPDM、NBR、FPM
- ◆压力操作范围(改变弹簧)
- ◆装配上手动快排手柄可以部分开启阀门, 现场清洗时(与泵通道一起使用)可以让流体通过。

技术规格

- ◆最大温度: 121°C(EPDM)/250°F
- ◆最大操作压力: 弹簧可调节(0-3bar / 0-6bar / 0-10bar 0-43, 5PSI/0-87PSI/0-145PSI)

Options

- ◆Connections: DIN, IDF, RJT, 3A, SMS, Clamp, Flange, Weld, Thread
- ◆Material of gasket: EPDM, NBR, FPM
- ◆Pressure range (Calibrating spring)
- ◆The assembly with handle can open the valve partially. When CIP (use with), the liquid flowed through.

Technical Specifications

- ◆Max. Temperature: 121°C(EPDM)/250°F
- ◆Max. Operating pressure: Spring adjustable(0-3bar / 0-6bar / 0-10bar / 0-43, 5PSI/0-87PSI/0-145PSI)



基本型安全阀
Safety valve
(Standard)

整定压力: 1bar-8bar
SIZE: DN25-DN100, 1"-4"
材质: 304、316L



手动快排安全阀
Manual quick-release
safety valve

管路清洗和紧急时手动
开启阀门



四通安全阀
Four-way
Safety valve

介质流进阀体超出整定
压力后保持液体循环输送
无死角、无滞留

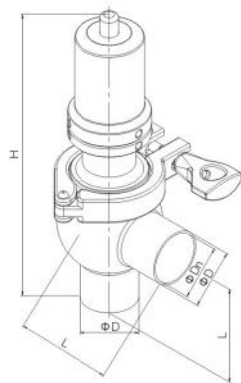
整定压力: 1bar-16bar



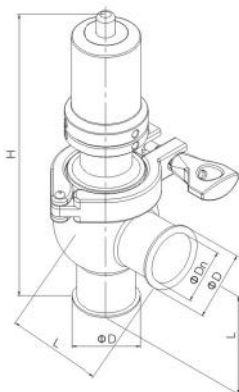
气动快排安全阀
Pneumatic quick-release
safety Valve

管路清洗和紧急时气动
开启阀门

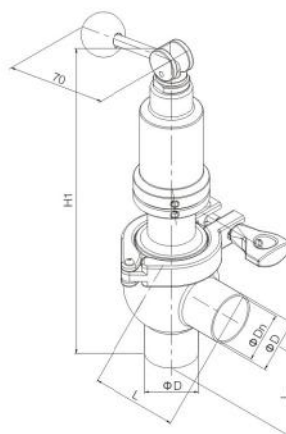
安全阀 Safety valve



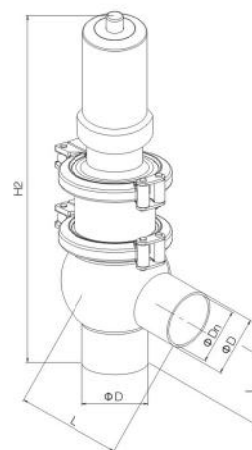
压力调节安全阀(焊接)
NO.VAQ100S1



压力调节安全阀(卡箍)
NO.VAQ110S1



压力调节安全阀+手动快排
NO.VAQ100S2



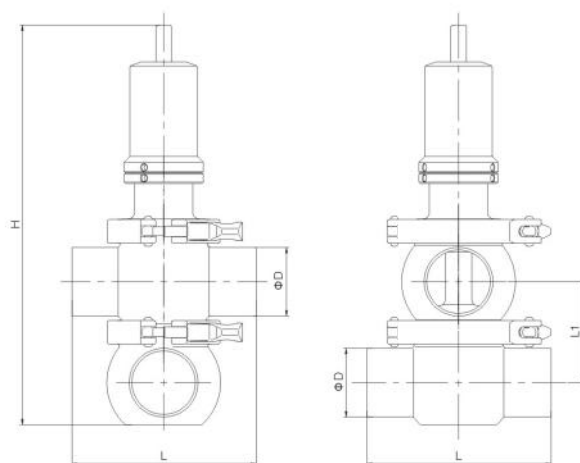
压力调节安全阀+气动执行器
NO.VAQ100Q1

手动调节安全阀(焊接) Manual Welded Safety Valve

SIZE	D	Dn	L	H	H1	H2
1"	25.4	22.4	50	216	260	269
1.25"	31.8	28.8	55	218	260	269
1.5"	38.1	35.1	60	222	266	309
2"	50.8	47.8	70	265	300	350
2.5"	63.5	59.5	80	297	340	392
3"	76.2	72.2	99	339	370	507

手动调节安全阀(卡箍) Manual Clamped Safety Valve

SIZE	D	Dn	L	H	H1	H2
1"	50.5	22.4	62.7	228.5	260	269
1.25"	50.5	28.8	67.7	230.5	260	269
1.5"	50.5	35.1	72.7	234.5	266	309
2"	64	47.8	82.7	277.5	300	350
2.5"	77.5	59.5	92.7	309.5	340	392
3"	91	72.2	111.7	351.5	370	507



四通安全阀
NO.VAQ100S1-001

调节安全阀(四通) Four-way safety valve

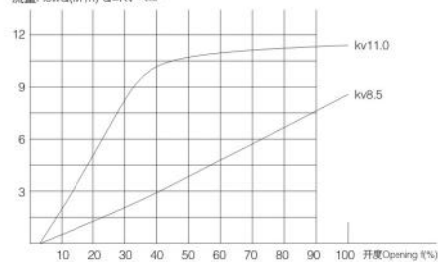
SIZE	D	H	L	L1
1"	25.4	253	100	67
1.25"	31.8	254	110	67
1.5"	38.1	255	120	67
2"	50.8	303	140	76
2.5"	63.5	343	160	88
3"	76.2	398	198	105

安全阀

Safety valve

安全阀(管口1")流量/选择(开度f)图表
Safety valve 1" flow(opening f) diagram

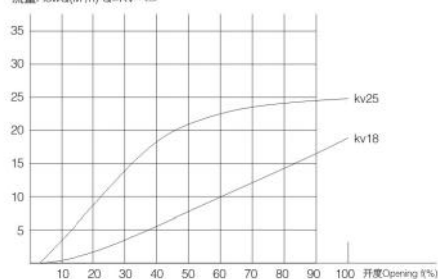
流量FlowQ(M³/h) $Q=KV \cdot \sqrt{\Delta P}$



注意:上面图表适用于:介质:水(20°C)
Note:above diagram suit for the medium:water(20°C)

安全阀(管口1.5")流量/选择(开度f)图表
Safety valve 1.5" flow(opening f) diagram

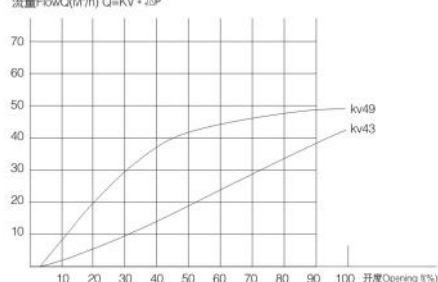
流量FlowQ(M³/h) $Q=KV \cdot \sqrt{\Delta P}$



注意:上面图表适用于:介质:水(20°C); 测量:按照VDI 2173
Note:above diagram suit for the medium:water(20°C); measuring:according to VDI 2173

调节式安全阀(管口2")流量/选择(开度f)图表
Safety valve 2" flow(opening f) diagram

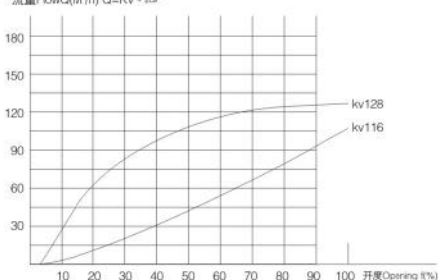
流量FlowQ(M³/h) $Q=KV \cdot \sqrt{\Delta P}$



注意:上面图表适用于:介质:水(20°C); 测量:按照VDI 2173
Note:above diagram suit for the medium:water(20°C); measuring:according to VDI 2173

安全阀(管口3")流量/选择(开度f)图表
Safety valve 3" flow(opening f) diagram

流量FlowQ(M³/h) $Q=KV \cdot \sqrt{\Delta P}$

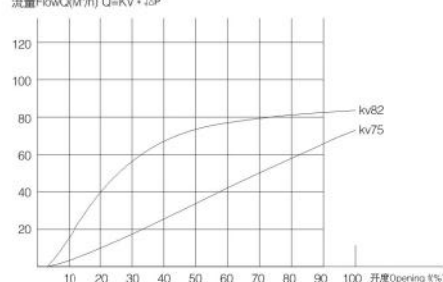


注意:上面图表适用于:介质:水(20°C); 测量:按照VDI 2173
Note:above diagram suit for the medium:water(20°C); measuring:according to VDI 2173



安全阀(管口2.5")流量/选择(开度f)图表
Safety valve 2.5" flow(opening f) diagram

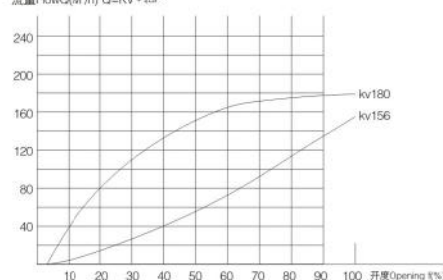
流量FlowQ(M³/h) $Q=KV \cdot \sqrt{\Delta P}$



注意:上面图表适用于:介质:水(20°C); 测量:按照VDI 2173
Note:above diagram suit for the medium:water(20°C); measuring:according to VDI 2173

安全阀(管口4")流量/选择(开度f)图表
Safety valve 4" flow(opening f) diagram

流量FlowQ(M³/h) $Q=KV \cdot \sqrt{\Delta P}$



注意:上面图表适用于:介质:水(20°C); 测量:按照VDI 2173
Note:above diagram suit for the medium:water(20°C); measuring:according to VDI 2173

应用 Applications

- ◆该安全阀是用于保护流经管道、泵、附件、池子等压力的安全。
- ◆该安全阀的设计健康安全，防止危险及由于压力导致的设备故障。
- ◆卫生的设计和完全不锈钢制造，该阀门是乳制品、食品、饮料、制药、精细化工工业中用于保护设备的最好选择。
- ◆The safety valve is used to protect pipe, pump from over pressure
- ◆Sanitary and safe design is to prevent operation danger and equipment breakdown due to pressure.
- ◆Full stainless steel, the valve is the best choice for protection equipments in dairy, food, beverage, pharmacy and fine chemical industries.

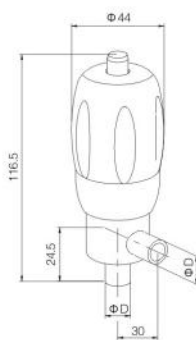
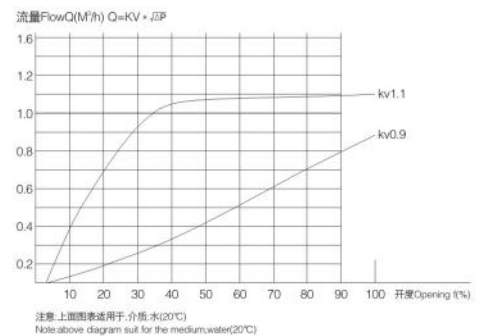
操作原理 Operating principles

- ◆一般操作条件下，该阀门保持关闭。
- ◆通过调节带有压力螺母的弹簧，该阀门被校准到一个特定的压力。
- ◆当管路中的压力超过特定的压力时，阀门打开，让流体通过，以此减少管道系统中的压力。
- ◆该阀门可以带手柄，从而实现阀门部分开启。当手柄在现场清洗过程中保持开启状态时，清洗产品可以流经阀门。
- ◆The valve is normally closed.
- ◆Pressure is set by spring with pressure nut.
- ◆When the pressure in the pipe exceeds to the specify pressure, the valve open automatically to make the liquid flow in order to reduce pressure.
- ◆The valve can be with handle to realize partial open. When the handle remains open on the spot, liquid can flow through the valve.

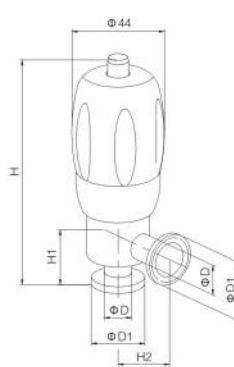


迷你型安全阀 1/2\"/>

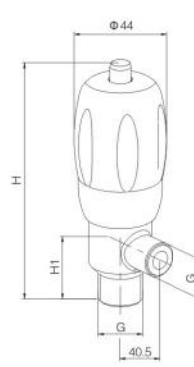
迷你型安全阀(管口 1/2\")流量/选择(开度)图表
Mini-type safety valve 1/2\"/>



NO. MINI-VAQ100S1



NO. MINI-VAQ110S1



NO. MINI-VAQ130S1

焊接 Welded

SIZE	D
DN10	12
DN15	18
1/2"	12.7
3/4"	19

卡箍 Clamped

SIZE	D	D1	H	H1	H2
DN10	12	34	128.5	36.5	38
DN15	18	34	128.5	36.5	38
1/2"	12.7	25.4	116.5	24.5	30

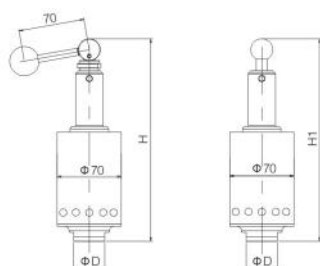
螺纹 Male

SIZE	G	H	H1
1/2"	G1/2	121.5	29.5
3/4"	G3/4	121.5	29.5
DN10	G1/2"	127	35
DN15	G1/2"	127	35
DN20	G3/4"	127	35

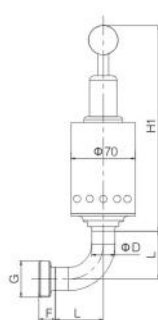
安全阀 Safety valve



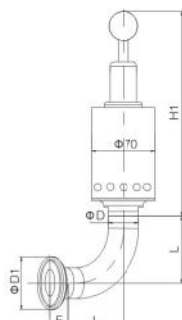
安全排气阀
Exhaust Valve



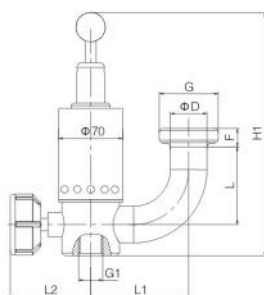
NO.VAQ200S1



玻璃视窗安全阀(螺纹)
NO.VAQ220S1-001



玻璃视窗安全阀(卡箍)
NO.VAQ210S1-001



NO.VAQ220S1-002

玻璃视窗安全排气阀(DIN)

SIZE	D	H	H1
DN15	18	221	225
DN20	22	221	225
DN25	28	221	225
DN32	34	221	225
DN40	40	221	225

玻璃视窗安全排气阀(INCH)

SIZE	D	H	H1
0.75"	19	221	225
1"	25.4	221	225
1.25"	31.8	221	225
1.5"	38.1	221	225

玻璃视窗安全排气阀

SIZE	D	H1	D1	L	E	F	G
DN15	18	225	34	47	12.7	19	-
DN20	22	225	34	52	12.7	20	-
DN25	28	225	50.5	70	12.7	20	Rd52 × 1/6
DN32	34	225	50.5	78	12.7	20	Rd58 × 1/6
DN40	40	225	50.5	85	12.7	20	Rd65 × 1/6

SIZE	D	H1	D1	L	E	F	G
0.75"	19	225	25.4	38	12.7	19	-
1"	25.4	225	50.5	52.4	12.7	18	Rd40 × 1/6
1.25"	31.8	225	50.5	69.7	12.7	20	Rd48 × 1/6
1.5"	38.1	225	50.5	74.6	12.7	20	Rd60 × 1/6

玻璃视窗安全排气阀+压力表

SIZE	G1	D	H1	L	L1	L2	F	G
DN25	BSP1/2"	28	267	70	98	88	20	Rd52 × 1/6
DN32	BSP1/2"	34	267	78	103	88	20	Rd58 × 1/6
DN40	BSP1/2"	40	267	85	107	88	20	Rd65 × 1/6

SIZE	G1	D	H1	L	L1	L2	F	G
1"	BSP1/2"	25.4	267	52.4	80.4	88	19	Rd40 × 1/6
1.25"	BSP1/2"	31.8	267	69.7	94.7	88	18	Rd48 × 1/6
1.5"	BSP1/2"	40	267	74.6	97	88	20	Rd60 × 1/6

恒压调节阀(背压阀) Constant pressure valve

DONJOY创新设计
专利保护

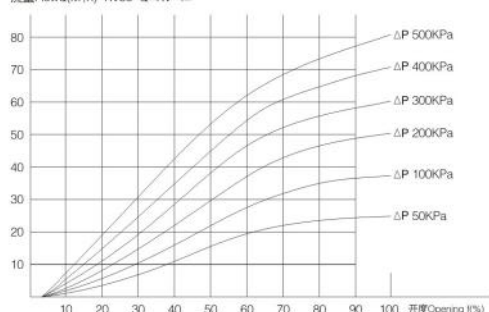


应用

- ◆该阀门是一种卫生型恒压阀，可适用于食品加工、饮料、制药等领域的管道系统上。
- ◆恒压设计有两种保持恒定压力的功能选择：
V型恒压阀：入口恒压(进口压力保持恒定)在阀门入口端保持一个恒压。该配置典型应用，分离器，热交换器等后部，作为溢流阀门的使用。
A型恒压阀：出口恒压在阀门出口端保持一个恒压。出口恒压配置典型应用，灌装机，装瓶机等设备前部。

压差流量曲线图=KV36(举例)

流量FlowQ(M³/h) KV36 $Q=KV \cdot \sqrt{\Delta P}$



注意:上图表适用于:介质:水(20°C), 测量:按照VDI 2173

Note: above diagram suit for the medium: water(20°C) measuring according to VDI 2173

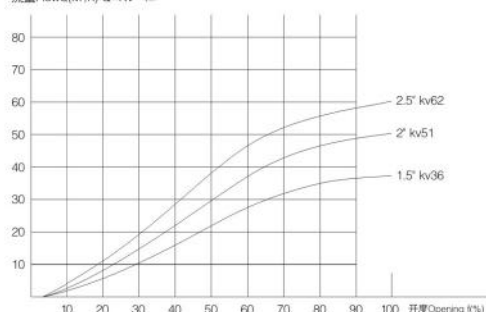
Applications

- ◆ V type (inlet constant pressure); maintain constant pressure at the valve inlet. Such design is specially applied at the back of heat-exchanger. It is used as safety valve.
- ◆ A type (Outlet constant pressure); maintain constant pressure at the outlet. Such design is used as the front of filling machine and bottle filling machine.

流量/选择(开度)图表

Flow(opening %) diagram

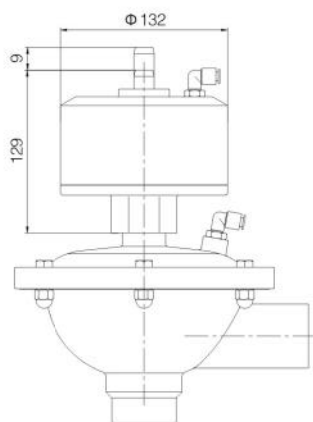
流量FlowQ(M³/h) $Q=KV \cdot \sqrt{\Delta P}$



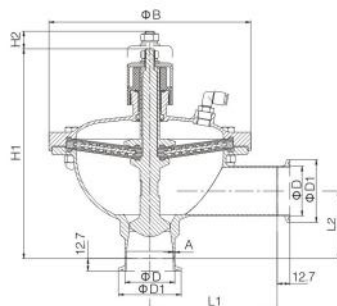
注意:上图表适用于:介质:水(20°C), 测量:按照VDI 2173

Note: above diagram suit for the medium: water(20°C) measuring according to VDI 2173

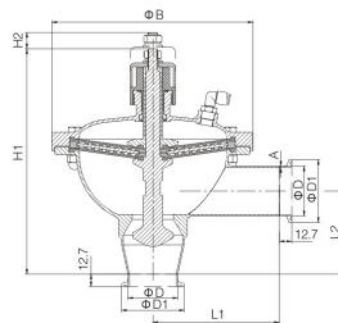
恒压调节阀(背压阀) Constant pressure valve



带增压器
With superchanger
NO.VHY300Q1



V型(进口恒压)
V Type(inlet constant pressure)
NO.VHY100Q1



A型(出口恒压)
A Type(Outlet constant pressure)
NO.VHY200Q1

恒压阀尺寸图 Constant pressure valve dimension

SIZE		D	D1	A	B	L1	L2	H1	H2
V型	DN40	40	50.5	1.5	206	130	62	215	18
	1.5"	38.1							
	DN50	52	64	1.5	206	130	69	215	18
	2"	50.8							
A型	2.5"	63.5	77.5	2	206	130	69	215	18
	DN40	40	50.5	1.5	206	130	78	230	18
	1.5"	38.1							
	DN50	52	64	1.5	206	130	85	230	18
	2"	50.8							
A型	2.5"	63.5	77.5	2	206	130	85	230	18

标准设计

- ◆接触部分材质: 1.4404/316L, 其他304
- ◆密封材质: EPDM+PTFE(FDA177.2600)
- ◆连接方式: 卡箍、螺纹、焊接、ISO、DIN、SMS、RJT
- ◆表面处理: 外喷砂, 内镜面抛光($Ra \leq 0.6 \mu m$)
- ◆工作温度: -10 到 $150^\circ C$
- ◆工作压力: 8 bar
- ◆最大工作压力: 12bar 增加增压器(选项)

Standard design

- ◆Contact part of the material: 1.4404/316L, other parts: 304
- ◆Seal: EPDM + PTFE (FDA177.2600)
- ◆Connections: clamp, thread, welding, ISO, DIN, SMS, RJT
- ◆Surface: sand blast outside, mirror finished inside ($Ra \leq 0.6 \mu m$)
- ◆Working temperature: -10 to $150^\circ C$
- ◆Working pressure: 8 bar
- ◆The max working pressure: 12 bar Supercheuger(option)

工作原理

- ◆恒压阀通过压缩空气进行操作, 该阀门的操作不需要管道系统上的其他传感器或其他的辅助仪器实现自动操作, 而只需要一只压缩空气压力调节阀保持气压稳定即可实现阀门正常工作。
 - ◆隔膜片和阀杆的配合可对所输送的产品任何压力的变化迅速作出反应, 并相应的改变阀杆的位置, 以便继续保持预先设定的压力值。
 - ◆恒压阀-V型: 进口压力保持恒定, 在输送介质的压力高于设定压力的情况下阀门开启, 输送介质压力降低时流量也随之变成, 输送介质压力不足时阀门关闭。(见图1)
 - ◆恒压阀-A型: 出口压力保持恒定, 当输送的介质压力高于设定压力的情况下阀门会关闭, 输送介质压力降低时流量也随之变化, 输送介质压力不足时阀门开启。(见图2)
- 注意: 订购恒压阀时一定要说明进口恒压/出口恒压。

Operating principles

- ◆Constant pressure valve operated by compressed air, automatically run without sensor on piping system or other auxiliary instruments, and only one compressed air pressure regulating valve that maintains pressure stability can be realized the normal work of the valve.
 - ◆Diaphragm slice and valve rod can be fit to transport product any pressure changes to make a quick response, and the corresponding change the valve stem position, in order to continue to keep the preset pressure value.
 - ◆Constant pressure valve - V: inlet pressure constant, in conveying medium pressure higher than the set pressure under the condition of the valve opens, the transmission medium pressure decreases flow has become, conveying medium pressure is insufficient valve closed. (see chart 1)
 - ◆Constant pressure valve - A type: outlet pressure constant, when transmitting medium pressure higher than the set pressure under the condition of the valve will be closed, conveying medium pressure decreases flow changes, conveying medium pressure is insufficient valve opens. (see chart 2)
- Note: Please specify inlet/outlet constant pressure when you are ordering the constant pressure valve.

迷你型恒压调节阀

Mini-type constant pressure valve



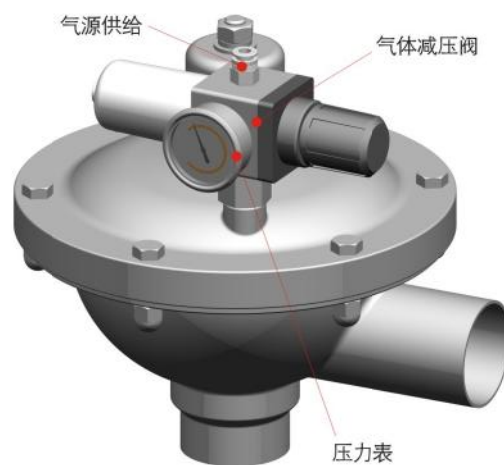
应用

- ◆该阀门是一种卫生型恒压阀，可适用于食品加工、饮料、制药等领域的管道系统上。
- ◆恒压设计有两种保持恒定压力的功能选择：
V型恒压阀：入口恒压(进口压力保持恒定)在阀门入口端保持一个恒压。该配置典型应用，分离器，热交换器等后部，作为溢流阀门的使用。
A型恒压阀：出口恒压在阀门出口端保持一个恒压。出口恒压配置典型应用，灌装机，装瓶机等设备前部。

Applications

- ◆V type (inlet constant pressure); maintain constant pressure at the valve inlet. Such design is specially applied at the back of heat-exchanger. It is used as safety valve.
- ◆A type (Outlet constant pressure): maintain constant pressure at the outlet. Such design is used as the front of filling machine and bottle filling machine.

恒压阀安装建议



迷你型恒压调节阀

Mini-type constant pressure valve

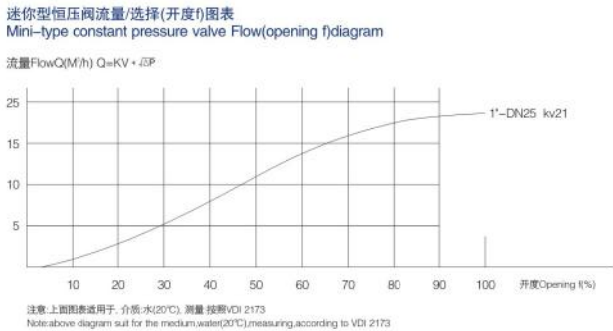
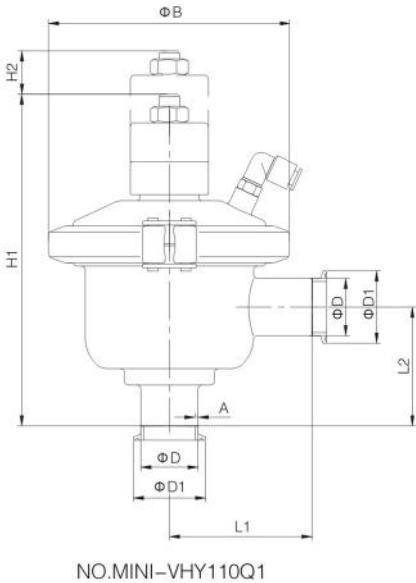
该阀门利用气体压力和管道压力设计来实现管道平衡的原理设计
 The valve using the gas pressure and the principle of pressure pipeline design to achieve the equilibrium of pipeline design



图(1)
 注意：图(1)进口恒压设计，保持进口管道压力恒定
 图(2)出口恒压设计，保持进口管道压力恒定



图(2)
 Note: Figure 1 input constant pressure designto keep constant pressure inlet pipe
 Figure 2 outlet constant pressure design, of outlet pipeline pressure constant



恒压阀尺寸图 Constant pressure valve dimension								
	SIZE	D	D1	A	B	L1	L2	H1 H2
V型	DN25	28	50.5	1.5	118	70	58	162 16
	1"	25.4						
A型	DN25	28	50.5	1.5	118	70	58	176 16
	1"	25.4						

高洁净减压阀 High purity pressure reducing valve

L型-减压阀
L-type reducing valve



S型-减压阀
S-type reducing valve

NEW



应用

- ◆该减压阀是一款非常易操作的压力控制阀，它提供精确控制同时易于安装和维护。
- ◆该阀可以控制阀后压力，而不需要气动或电控制的元件。减压阀是一种双座膜片控制的弹簧加载的比例控制阀，其主要应用在食品饮料、酿酒、医药、化工等行业。
- ◆该阀不需要外部先导管路，减压阀与介质接触部位不锈钢和PTFE材料，因此有着非常优异的耐高温和耐腐蚀性。该阀是完全排空设计，无死角、适用于CIP和SIP系统中。
- ◆该阀门改变控制压力范围，非常简单，无需特殊工具，即可调节，同样适用于维修和保养。
- ◆出口压力控制整个控制单元，由阀弹簧力矩（设定压力），旋转调节螺母顺时针增加了出口压力，逆时针降低了出口压力。
- ◆出口压力下降，流量也随之增大；出口没有压力或最小压力时阀被完全打开。

注意：减压阀阀后没有压力阀门是处在最大流量，阀后压力大于设定压力阀门关闭，阀门关闭也会微量泄漏。如需阀门关闭时完全保持无泄漏请联系东正。

Applications

- ◆ Medium-controlled pressure reducers are simple control valves offering accurate control while being easy to install and maintain. They control the pressure downstream of the valve without requiring pneumatic or electrical control elements.
- ◆ DONJOY pressure reducing valve is a twin seat diaphragm-controlled spring-loaded proportional control valve which is primarily used for hygienic applications in the food processing and pharmaceutical industries. A PTFE protective foil renders the diaphragm physiologically safe and steam proof up to 180°C. The valve does not require an external pilot line.
- ◆ This valve is manufactured from deep-drawn stainless steel featuring excellent corrosion resistance. It contains virtually no dead pockets and is suitable for using in CIP and SIP systems. The angled design allows complete draining.
- ◆ The spring module comprising spring cap, spring, adjusting screw, diaphragm and internal components, is connected to the valve body only by means of a clamp ring and two bolts. Changing the diaphragm or the complete spring assembly for a different control pressure range is extremely simple and does not call for special tools. Also applies to servicing and maintenance.
- ◆ The outlet pressure to be controlled is balanced across the control unit by the force of the valve spring (set pressure). As the outlet pressure rises above the pressure set using the adjusting screw, the valve cone moves towards the seat and the volume of medium is reduced. As the outlet pressure drops, the valve control orifice increases; when the pipeline is depressurised, the valve is open. Rotating the adjusting screw clockwise increases the outlet pressure.

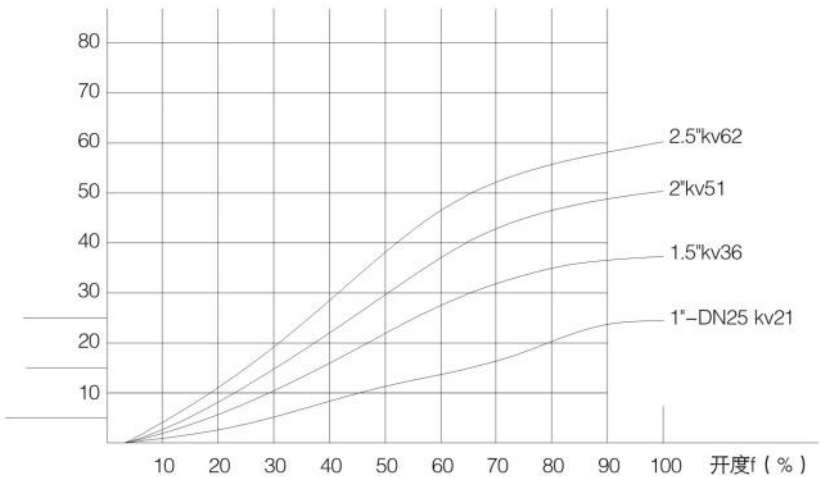
高洁净减压阀

High purity pressure reducing valve

DONJOY创新设计
专利保护

减压阀流量/选择(开度f)图表

流量Q(M³/h) $Q=KV \cdot \sqrt{\Delta P}$



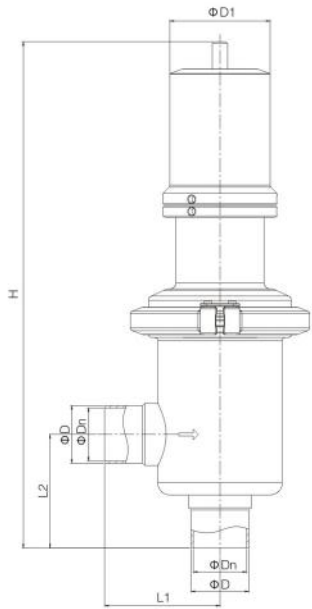
注意:上面图表适用于, 介质:水(20°C), 测量:按照VDI 2173

Note:above diagram suit for the medium,water(20°C),measuring,according to VDI 2173

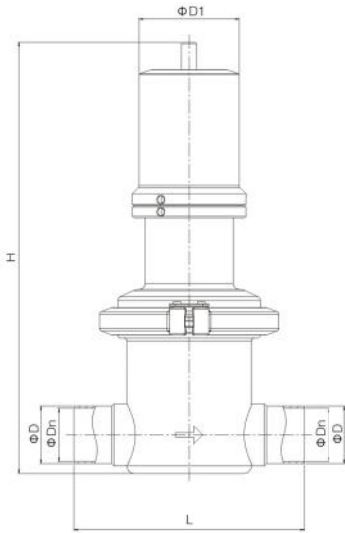
技术规格Technical Specifications

SIZE: 1"-3", DN25-DN80
公称压力: PN2.5-10
进口压力: 8bar
出口压力: 0.3-5bar
Kv值: 4-70m³/h
温度: 最高180°C
使用介质: 蒸汽、液体、气体
连接方式: 卡箍、螺纹、焊接、法兰

SIZE: 1"-3", DN25-DN80
Nominal pressure: PN2.5-10
Inlet pressure: 8bar
The outlet pressure: 0.3-5bar
The value of KV: 4-70m³/h
The highest temperature: 180°C
The use of steam, gas, liquid medium:
Connection: clamp, screw thread, flange, welding



L型进出口连接
NO.VJY100S1



水平式进出口连接
NO.VJY200S1



L型进出口连接 L-type reducing valve

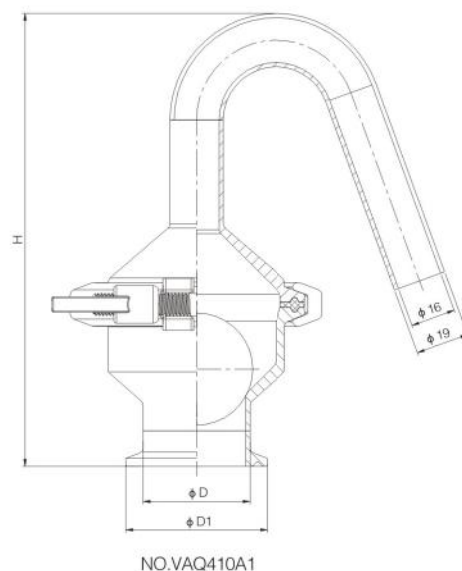
SIZE	D	Dn	D1	H	L1	L2
1"	Φ25.4	Φ22.4	Φ66	316	76	70
1.5"	Φ38.1	Φ35.1	Φ66	334	76	75
2"	Φ50.8	Φ47.8	Φ66	352	89	80

水平式进出口连接 S-type reducing valve

SIZE	D	Dn	D1	H	L
1"	Φ25.4	Φ22.4	Φ66	265	152
1.5"	Φ38.1	Φ35.1	Φ66	285	152
2"	Φ50.8	Φ47.8	Φ66	310	178

排气阀

Air release valve



SIZE	D	D1	H
1"	25.4	50.5	162
1.5"	38.1	50.5	162

应用领域

排气阀是一种可靠的自动排气阀，按需清除空气，垂直安装在管道或容器的顶部，或安装在泵进口之处。以下是排气阀的两个使用示例。

示例1:

由于安装的原因，管线上形成气穴，因而需要排出空气。此种情况下，阀门安装在管道的顶部。

示例2:

排出泵进口侧管道内的空气。进口端管道在泵开启前自动排除空气，形成真空。从而避免了空气与产品混杂在一起，进而避免了气穴的出现。此种情况下，阀门安装在泵的前面，进口管的顶部。

工作原理

排气阀是一个双阀座的阀门，装有一个自由活动的塑料球。塑料球比水轻，能够根据压力条件来关闭上下阀座。

Application

Air Release valve is a reliable, automatic air-relief valve which is installed vertically on the top of a pipeline or container or before the inlet of removal a pump, where the releasing air is required. Here below are two examples of applications.

Example 1:

Air cavity is formed due to the installation of the pipeline, and thus need to release air. In this case the valve is installed at the top of the pipe.

Example 2:

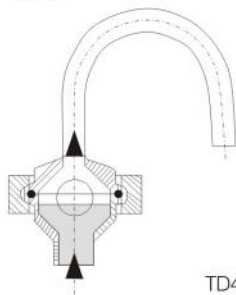
Discharge air at inside of the pipeline of the pump. When the pump opened the air will be automatically discharged and forming a vacuum. In order to avoid the air mixed with products and the appearance of cavitation. In this case the valve is installed in front of the pump, on top of the inlet pipe.

Working principle

Air Release valve is a double-seat valve with a freely movable plastic ball. The ball, which is lighter than water, According the conditions of pressure to close the upper or lower valve seat.

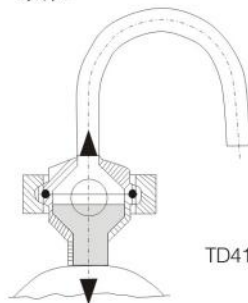
排气阀 Air release valve

条件1



TD412-013

条件2



TD412-013

注意!

关于正确使用的重要信息
- 产品密度须高于球的密度。
- 垂直安装。
- 产品纯净。

Note:

important information to properly use.
- Product density must be higher than the ball density.
- Vertical installation.
- Pure products.

标准设计 Standard design

阀体由两部分组成，通过卡箍组装在一起。下面的阀体有一个焊接短管。

The valve body is composed of two parts and assembled by a clamp. The lower body has a welding cube.

技术数据 Technical data

- ◆最大产品压力: 1000kPa/145psi(10bar)。
- ◆最高温度: 90° C/194° F(由于阀球是塑料球)。
- ◆阀球密度: 0.906kg/dm3
- ◆Max.product pressure: 1000kPa/145psi(10bar).
- ◆Max.temperature: 90° C/194° F(because of the plastic ball).
- ◆Density of ball: 0.906kg/dm3

压力条件 Pressure conditions

压力，空气或产品，或空气/产品混合物。
Pressure, air or product, or air/products mixture.

现象 Effect

塑料球被从下阀座上提升。在产品介质将球提升至上阀座时，空气便会排出，从而关闭阀门。
The ball is lifted from the lower seat. The air be released when the product lifts the ball against the upper seat, closing the valve.

压力条件 Pressure conditions

真空，空气或产品，或空气/产品混合物。
Vacuum, air or product, or air/ products mixture.

现象 Effect

无论是否含有空气、产品或是两者混合物，真空时，塑料球向下阀座运动，关闭阀门。
The ball moves forwards the lower seat, closing the valve, whether it contains air/product mixture, or air/product.

选件 Options

可选橡胶:
- NBR (Buna N)
- FPM (SFY)
聚丙烯

Alternative elastomers:
- NBR (Buna N)
- FPM(SFY)
Polypropylene(PP)

材料 Materials

钢制部件: 不锈钢AISI304
阀球: 聚丙烯
密封环: EPDM

Body: Stainless steel AISI304
Ball: Polypropylene(PP)
Seal ring: EPDM

呼吸阀(防止真空阀/排气阀) Rebrether (air release)

DONJOY创新设计
专利保护



应用 Application

该阀门应用压力容器或管路系统上, 呼吸阀具备两种功能:

- ◆当压力高于设定压力(标准1bar)时可以排气, 反之关闭;
- ◆当管路系统中产生真空(标准-0.9bar)时阀门自动打开。这样就保证了设备和相关仪表的安全, 同时也可以满足各种生产工艺需求。该阀门全锈钢材料, 卫生设计, 满足于各种食品加工、饮料、以及制药等各种工业领域。

This valve used in pressure vessel or pipe system, the air release valve has two functions:

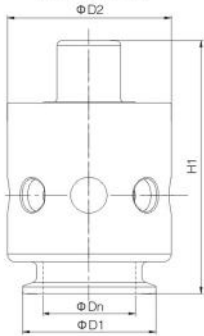
- ◆when pressure is higher than the set pressure (standard 1 bar) release air, Otherwise is closed;
- ◆when the pipe system in vacuum (standard - 0.9 bar) valve will automatically open. which is to ensure the equipment and related instrument security, at the same time it can meet various production process demand. This valve with stainless steel materials, hygienic design, applied to all kinds of food processing, drink, and pharmaceutical and other industrial fields.

技术规格 Technical specifications

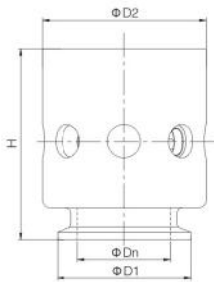
- ◆规格: 1"-2", DN25-DN50
- ◆接口: 卡箍、焊接、螺纹、DIN、SMS、IDF、ISO
- ◆材质: ASTM 304/1.4301, 316L1.4404
- ◆垫圈: EPDM FPM
- ◆压力: 0.5.....2bar
- ◆真空: 0.3.....0.9bar
- ◆温度: -10°C到130°C
- ◆Size: 1 "-2", DN25-DN50
- ◆Connection: Clamp, welding, thread, DIN, SMS, IDF, ISO
- ◆material: ASTM 304/1.4301, 316L1. 4404
- ◆Gasket: EPDM FPM
- ◆pressure: 0.5..... 2 bar
- ◆vacuum: 0.3..... 0.9 bar
- ◆temperature: -10°C to 130°C



可调式呼吸阀



NO.VAQ510A1



NO.VAQ310A1

DIN

SIZE	Dn	D1	D2	H	H1
DN25	25	50.5	62	72	95.5
DN40	37	50.5	62	72	95.5
DN50	49	64	62	72	95.5

INCH

SIZE	Dn	D1	D2	H	H1
1"	22.4	50.5	62	72	95.5
1.5"	35.1	50.5	62	72	95.5
2"	47.8	64	62	72	95.5



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