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In good faith to build the backbone Using quality molded glory

Kinko 浙江金莳流体设备有限公司

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自控阀门方案解决商

FLUID CONTROL SOLUTION PROVIDER

www.kinko-fluid.com

ABOUT US
关于我们

BUILDING THE BACKBONE WITH **INTEGRITY**
BRILLIANCE WITH **QUALITY**
用**诚信**打造脊梁 用**质量**铸就辉煌

浙江金莳流体设备有限公司是一家专业供应各类角座阀、气动执行器、气球球阀、气动蝶阀、电动执行器、电动球阀、电动蝶阀、气动调节阀、电动调节阀、手动球阀、手动蝶阀、气动手动机构、限位开关、定位器的专业性流体设备企业。

本公司产品全部由拥有精良的流水生产线，高精密度的数控加工中心以及检测设备，并严格按照ISO9001国际质量标准体系组织生产，检验，销售和服务，为确保产品质量，产品按ISO、DIN、3A、IDF、SYS、JIS和GB的工业标准生产，质量符合FDA/GMP规范要求。公司始终努力改进和创新管理模式以及生产管理程序，提高产品质量和售后服务。

公司为用户咨询、设计、选型、安装，解决各种控制方案，秉承“质量可靠，服务满意，重视技术，科学管理”为质量方针，做好每一台阀门，注意每一个细节，服务每一位用户，让您们安心，放心使用。“金莳” 追求着力争高品质，追求高效管理，寻求科技发展的目标，积极打开“金莳”品牌的国际化进程的脚步，始终以赢得客户的信任而奋斗。

“金莳”愿与各界朋友共同努力，为自动化阀门行业水平的提高做出我们的贡献！欢迎国内外客户光临指导，联系业务，建立长期关系。



“KINKO Fluid Equipment Co., Ltd”.is a professional fluid equipment enterprise that, Manufacture various kinds of pneumatic actuators, pneumatic butterfly valves, pneumatic ball valves, electric actuator, electric butterfly valves, electric ball valves, electric control valve, pneumatic control valve, pneumatic angle seat valve, manual butterfly valve, manual ball valve, Gear box, limit switch box, positioner.....

The company has international advanced assembly line, precision CNC machining centers as well as perfect testing equipment, and in strict accordance with ISO9001 international quality standard system of organizing production, testing, sales and service, to ensure product quality, product by ISO, DIN, 3A, IDF, SYS, JIS and GB standard ,the quality of full compliance with FDA/GMP requirements. Companies always try to improve and innovation management method and production management procedures, introduction of international advanced technology and equipment, improve product quality and after-sales service.

We do for the user “consulting, design, selection, installation”, to solve all kinds of control trouble, adhering to the "quality first, customer first" corporate philosophy, the pursuit of the strive to high quality, the pursuit of efficient management, to seek the goal of science and technology development, Creating the "KINKO" international brand, always strive to win the trust of customers.

“KINKO” People warmly welcome customers to visit our company ! Establish a long-term relationship..

FLUID CONTROL SOLUTION PROVIDER 自控阀门方案解决商

ENTERPRISE CERTIFICATE

企业证书

金莉获得的资质和荣誉，是对我们过去取得成绩的肯定，也是我们创造明日辉煌的鼓舞和鞭策！向新的台阶迈进，是金莉人顽强拼搏，永不停歇的信念！

The qualification and honor obtained by "KINKO' is the affirmation of our past achievements, and it is also the inspiration and spur for us to create tomorrow's brilliance! To move to a new level, is the “KINKO” people tenacious struggle, never stop the belief!



Kinko

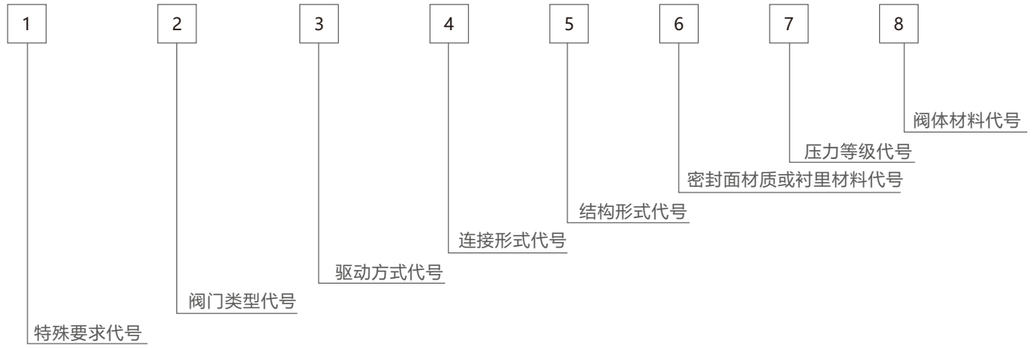
DIRECTORY 目 录

阀门型号编制说明	Valve Model Designation Instructions	001
● 气动产品系列	PNEUMATIC PRODUCT SERIES	002-004
AW气动执行器	AW Pneumatic Actuator	005
直行程单作用气动执行机构	Liner-type Single Acting Pneumatic Actuator	006
直行程双作用气动执行机构	Liner-type Double Acting Pneumatic Actuator	007
工作原理	Working Principle	008
结构特点	Structural Features	009
● 气动截止阀系列	PNEUMATIC GLOBE VALVE SERIES	010
GB 标准气动法兰截止阀	GB Standard Pneumatic Flange Globe Valve	011-013
抗生素截止阀	Antibiotic Globe Valve	014
三通抗生素截止阀	Three-way antibiotic Globe Valve	015
● 气动闸阀系列	PNEUMATIC GATE VALVE SERIES	016
气动法兰连接闸阀	Pneumatic Flange Gate Valve	017-019
气动放料阀	Pneumatic Discharge Valve	020-021
气动对夹式刀形闸阀	Pneumatic Wafer Type Knife Gate Valve	022-024
气动闸阀	Pneumatic Gate Valve	025
气动浆液阀/刀闸阀	Pneumatic Slurry Valve/knife Gate Valve	026
气动双闸板阀	Pneumatic Double Gate Valve	027
气动闸板阀	Pneumatic Gate Valve	028
● 气动球阀系列	PNEUMATIC BALL VALVE SERIES	029
三片式气动螺纹球阀	3PC pneumatic threaded ball valve	030
二片式气动法兰球阀	2PC pneumatic flanged ball valve	031
三通气动螺纹球阀	3-Way Pneumatic thread ball valve	032
气动三通法兰球阀	Pneumatic Three-way Flange Ball Valve	033
气动卫生级快装球阀	Pneumatic Tri-clamp ball valve	034
气动卫生级球阀	Sanitary pneumatic ball valve	035
气动对夹式V型球阀	Pneumatic Wafer V-Type Ball Valve	036
气动法兰式V型球阀	Pneumatic Flange V-Type Ball Valve	037
气动三通法兰式球阀	Pneumatic Three-way Flange Ball Valve	038-039
气动活塞式V型调节球阀	Pneumatic Piston V-type Regulating Ball Valve	40
气动卸灰固定阀	Pneumatic Ash Unloading Fixed Valve	41

目 录 DIRECTORY

● 气动蝶阀系列	PNEUMATIC BUTTERFLY VALVE SERIES	042
气动软密封中线蝶阀	Pneumatic Soft Seal Butterfly Valve	043
气动对夹式三偏心蝶阀	Pneumatic Tri-eccentric butterfly valve	044
气动塑料蝶阀	Pneumatic Plastic Butterfly Valve	045-046
气动法兰蝶阀	Pneumatic Flange Butterfly Valves	047
气动法兰三偏心蝶阀（硬密封、四氟密封）	Pneumatic Flange Triple Eccentric Butterfly Valve	048
卫生级气动蝶阀	Sanitary pneumatic butterfly valve	049
气动多层次调节蝶阀	Pneumatic Flange Butterfly Valves	050
● 电动球阀系列	ELECTRIC BALL VALVE SERIES	051
三片式电动螺纹球阀	3PC Electrical threaded ball valve	052
二片式电动法兰球阀	2PC Electrical flanged ball valve	053
三通电动螺纹球阀	3-Way Electrical thread ball valve	054
电动卫生级球阀	Sanitary Electrical ball valve	055
电动三通法兰球阀	Electric 3-way flange ball valve	056
高平台L型三通球阀	Mechanical Department High Platform L type three-way ball valve	057
● 电动蝶阀系列	ELECTRIC BUTTERFLY VALVE SERIES	058
电动对夹蝶阀	Electrical wafer butterfly valve	059
卫生级电动蝶阀	Sanitary Electrical butterfly valve	060
● 气动调节阀系列	PNEUMATIC CONTROL VALVE SERIES	061
气动薄膜单座调节阀111型	Pneumatic single seat control valve 111 type	062-069
气动薄膜角形套筒调节阀 137型	Pneumatic angular sleeve control valve 137 type	070-072
自力式调节阀 211型	Self-operated regulator	073-076
自力式压力调节阀 211型	Self operated pressure regulating valve Type 211	077-079
自力式减压阀组 212型	Self operated pressure reducing valve group Type 212	080-083
指挥器操作式自力式压力调节阀214型	Pilot operated self-operated pressure regulating valve type 214	084-087
自力式微压调节阀/自力式差压调节阀 215V型	Self-operated micro pressure regulating valve/self-operated differential pressure regulating valve 215V type	088-091
售后服务与质量保证承诺	After sales service and quality assurance commitment	092-093

阀门型号编制说明
Valve Model Designation Instructions



1、特殊要求代号：K=抗硫型，D=低温型，B=保温夹套型，L=加长阀杆型，Y=氧气专用型，W=卫生型，V=V型球。
2、阀门类型代号：Z=闸阀，J=截止阀，Q=球阀，D=蝶阀，G=隔膜阀，X=旋塞阀。
3、驱动方式代号：6=气动，6S=气动加手动，6K=气动常开式，6B=气动常闭式。
4、连接形式代号：1=内螺纹连接，2=外螺纹连接，4=法兰连接，6=焊接，7=对夹连接，8=卡箍连接。
5、结构形式代号：

闸阀　1=楔式单闸板，2=楔式双闸阀，0=楔式弹性闸板，3=平行单闸板，4=平行式双闸板。
截止阀　1=直通式，4=角式，5=直流式。
球阀　1=浮动直通式，4=浮动式L型三通，5=浮动式T型三通，7=固定式直通式，8=固定式T型三通，9=固定式L型三通，0=半球直通。
蝶阀　1=中线直板式，3=三维偏心式。
隔膜阀　1=屋脊式，3=截止式。
旋塞阀　1=直通式，4=T型三通式，5=四通式。

6、密封面材质或陈丽材料代号：F=聚四氟乙烯，P=对位聚苯，N=尼龙，X=橡胶，H=合金钢，Y=硬质合金，J=衬橡胶，
F4=衬聚四氟乙烯。
7、压力等级代号：
GB标准公称压力MPa（兆帕）的10倍（Kgf/cm^2）单位表示6.0，10，16，25，40，64，100。
ANSI标准压力等级为Class150，300，400，600。
JIS标准压力等级为10K，20K，40K。
8、阀体材料代号：
C=WCB；P=CF8(304)；PL=CF3(304L)；R=CF8M(316)；
RL=CF3M(316L)；I=WC6，1Cr5Mo；F=LCB；N=LCS3；S=PVV、RPP。
（相对应锻件材质不详细列举）
注：PN≥2.5MPa及压力等级≥Class150的碳素铸钢阀体，省略本代号。
例1：Q641F-16P-DN50
表示公称压力为1.6MPa、通径DN50毫米的气动法兰连接全通径浮动式不锈钢球阀。
例2：D6S73H-150-4"
表示压力等级Class150、通径4英寸的气动带手动对夹式金属硬密封三偏心碳钢蝶阀。

PNEUMATIC PRODUCT SERIES
气动产品系列



气动塑料蝶阀
Pneumatic plastic butterfly valve



气动塑料球阀
Pneumatic plastic ball valve



气动截止阀
Pneumatic globe valve



气动橡胶蝶阀
Pneumatic rubber butterfly valve



气动衬氟蝶阀
Pneumatic PFA Lined Butterfly valve



气动衬氟球阀
Pneumatic fluorine lined ball valve



气动法兰球阀
Pneumatic flange ball valve

气动卫生级快装球阀
Pneumatic sanitary quick-release ball valve



气动高压球阀
Pneumatic high-pressure ball valve



气动三通丝扣球阀
Pneumatic three-way threaded ball valve

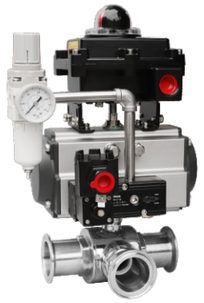


气动高平台法兰球阀
Pneumatic high platform flange ball valve

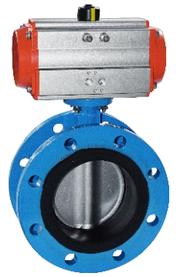


气动三通法兰球阀
Pneumatic 3-way flange ball valve

PNEUMATIC PRODUCT SERIES
气动产品系列



气动三通卫生级快装球阀
Pneumatic three-way sanitary quick-release ball valve



气动法兰蝶阀
Pneumatic flange butterfly valve



气动高性能对夹蝶阀
Pneumatic high-performance wafer butterfly valve



气动放料阀
Pneumatic Discharge Valve



气动闸阀
Pneumatic Gate Valve



抗生素截止阀
Antibiotics Globe Valve



气动截止阀（带手动）
Pneumatic Glove Valve With Manual



气动截止阀
Pneumatic Globe Valve



单作用气动截止阀
Single-acting Pneumatic Globe Valve



气动柱塞阀
Pneumatic Plunger Valve



直行程气动执行器(带齿轮手动)
Liner-Type Pneumatic Actuators
(With Manual Gear)



直行程气动执行器(带丝杆手动)
Liner-Type Pneumatic Actuators
(With Screw-rod Manual)

PNEUMATIC PRODUCT SERIES
气动产品系列



气动闸阀
Pneumatic gate valve



气动刀闸阀
Pneumatic knife gate valve



气动疏水阀
Pneumatic drain valve



气动截止阀
Pneumatic globe valve



气动放料阀
Pneumatic discharge valve



气动截止阀
Pneumatic globe valve



气动活塞式V型调节球阀
Pneumatic piston V-type regulating ball valve



气动多层次调节蝶阀
Pneumatic multi-level regulating butterfly valve



气动闸阀
Pneumatic gate valve



直行程气动执行器
Liner Pneumatic Actuator



双作用气动执行器
Double acting Scotch-Yoke actuator



双作用拨叉式气缸
Double acting scotch-yoke pneumatic actuator



直行程带侧装手轮
Liner actuator with Side Manual wheel



单作用气动执行器
Single acting Socth-Yoke actuator



单作用拨叉式气缸
Single acting scotch-yoke pneumatic actuator

Kinko

AW气动执行器
AW Pneumatic Actuator



分为双作用式和单作用式(弹簧复位)，两个分体气缸，输出扭矩大，动作灵活平稳。从两端可调节角度±5°;有常温型、高温型、低温型。在常温工作条件下使用丁腈橡胶，在高温或低温时采用氟橡胶或硅橡胶:输出的轴安装连接孔有多种形状(四方孔、轴键孔、扁孔)，可配蝶阀，球阀，风门，挡板阀，旋塞阀，百叶阀等。

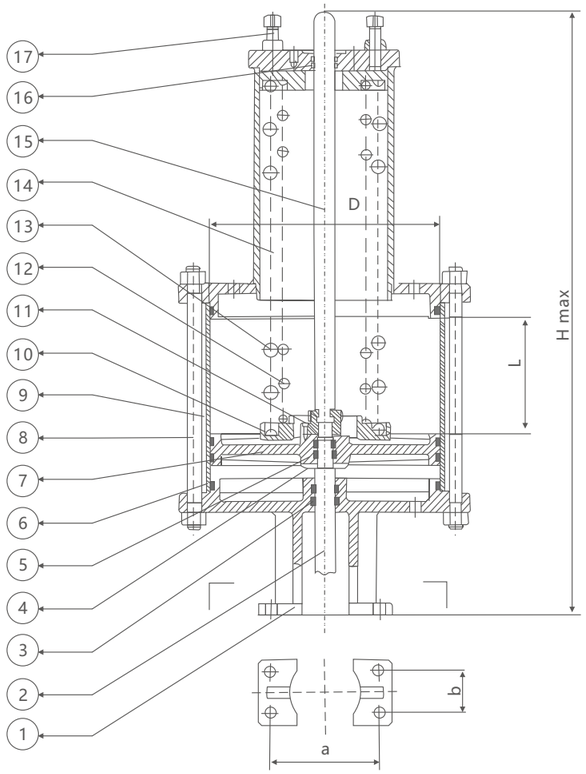
Divided into double acting and single acting (spring reset), with two split cylinders, it has a large output torque and flexible and smooth action. Adjustable angle ± 5 ° from both ends; There are room temperature type, high temperature type, and low temperature type. Nitrile rubber is used under normal working conditions, while fluororubber or silicone rubber is used at high or low temperatures. The output shaft installation connection holes come in various shapes (square holes, shaft key holes, flat holes) and can be equipped with butterfly valves, ball valves, air dampers, baffle valves, plug valves, louver valves, etc.



双作用气动执行器输出扭矩表(单位:Nm)
Double acting actuator output torque (Nm)

型号 Model	输入气源压力(单位：Bar) Input air supply pressure (unit: Bar)				
	3	4	5	6	7
AW13	515	620	770	930	1080
AW17	950	1270	1590	1910	2230
AW20	2150	2870	3580	4300	5020
AW25	3360	4480	5600	6720	7850
AW28	5150	6860	8580	10300	12020
AW32	7620	10150	12680	15220	17760
AW35	10120	13500	16870	20250	23620
AW40	13220	17630	22040	26450	30860
AW50	22460	29950	37440	44930	52420
AW60	47300	63070	78840	94610	110380

直行程单作用气动执行机构
Liner-type Single Acting Pneumatic Actuator



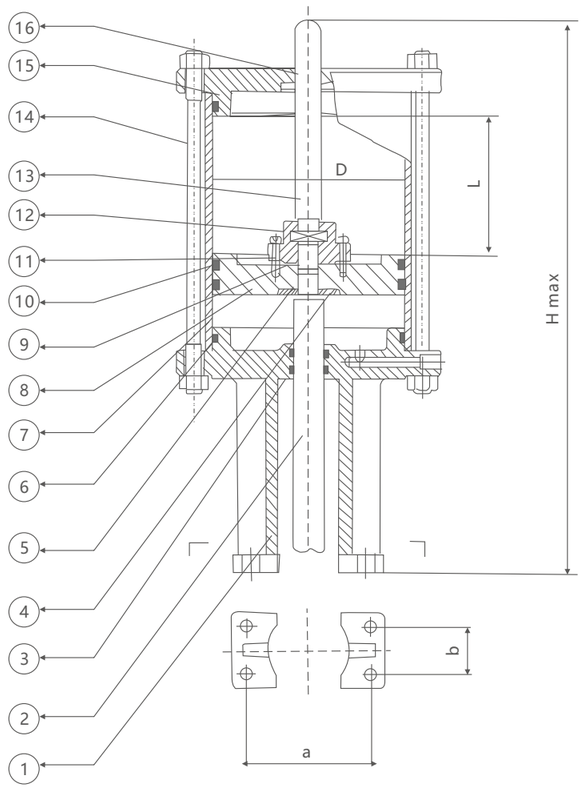
No.	名称Part's Name	材料Material	Qty
1	底部的支持Bracket	WCB	1
2	阀杆Stem	20 Cr13	1
3	O形环O-ring	丁腈橡胶NBR	2
4	垫片Gasket	Q235-A	1
5	O形环O-ring	丁腈橡胶NBR	2
6	O形环O-ring	丁腈橡胶NBR	4
7	活塞Piston	Q235-A	1
8	拉杆Pull rod	35#	4-8
9	气缸Cylinder	20#	1
10	弹簧座Spring Seat	Q235-A	2
11	连接螺母Nut	WCB	1
12	小弹簧Spring	60 si2MNa	1
13	大弹簧Spring	60 si2MNa	1
14	前汽缸盖Cover	WCB	1
15	指示杆Indicator	20 Cr13	1
16	O形环O-ring	丁腈橡胶NBR	2
17	螺栓 Bolts	35#	2

单作用气动执行机构参数表
Single action pneumatic actuator parameters table

单位（N.m）

气动执行器模式	气缸直径（D）	行程（L）	Max.Height(H)	支架连接尺寸a*b	连接螺栓Connection	气源接口Air Connection
KK-160S	Φ160	80	675	120×50	4-M14	G1/4"
KK-200S	Φ200	120	780	150×60	4-M16	G1/4"
KK-250S	Φ250	200	890	150×60	4-M16	G1/4"
KK-300S	Φ300	250	1015	175×70	4-M18	G3/8"
KK-360S	Φ360	300	1150	195×70	4-M20	G3/8"
KK-400S	Φ400	350	1330	187×187	4-M27	G3/8"

直行程双作用气动执行机构
Liner-type Double Acting Pneumatic Actuator



No.	名称Part's Name	材料Material	Qty
1	底部的支持Bracket	WCB	1
2	阀杆Stem	20 Cr13	1
3	O形环O-ring	丁腈橡胶NBR	2
4	垫片Gasket	Q235-A	1
5	O形环O-ring	丁腈橡胶NBR	2
6	O形环O-ring	丁腈橡胶NBR	2
7	气缸Cylinder	20#	1
8	活塞Piston	Q235-A	1
9	垫片Gasket	Q235-A	1
10	O形环O-ring	丁腈橡胶NBR	2
11	六角头螺栓Hexagon Bolt	35#	4
12	连接螺母Nut	WCB	1
13	指示杆Indicator	45#	1
14	拉杆Pull Rod	35#	4-8
15	前汽缸盖Cover	WCB	1
16	O形环O-ring	丁腈橡胶NBR	2

双作用气动执行机构参数表
Double Acting Pneumatic Actuator Parameter Table

单位（N.m）

气动执行器模式	气缸直径（D）	行程（L）	Max.Height(H)	支架连接尺寸a*b	连接螺栓Connection	气源接口Air Connection
KK-120D	Φ120	70	360	92×40	4-M14	G1/4"
KK-160D	Φ160	135	490	120×50	4-M14	G1/4"
KK-200D	Φ200	220	710	150×60	4-M16	G1/4"
KK-250D	Φ250	260	820	150×60	4-M16	G1/4"
KK-300D	Φ300	300	925	175×70	4-M18	G3/8"
KK-360D	Φ360	375	1190	195×70	4-M20	G3/8"
KK-400D	Φ400	430	1375	187×187	4-M27	G3/8"
KK-500D	Φ500	530	1560	187×187	4-M27	G1/2"
KK-600D	Φ600	630	1880	237×237	4-M30	G1/2"

工作原理
Working Principle

JK型系列阀门气动执行机构以0.3-.08MPa（表压）净化压缩空气为工作动力，推动活塞，带动阀门闸板（模式闸阀，平板闸阀，刀型闸阀，截止阀等）做垂直于流体的线性运动从而实现调节，开启和关闭阀门的目的。

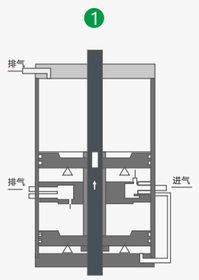
JK series valve pneumatic actuator takes 0.3-08mpa (gauge pressure) purified compressed air as working force to push the piston and drive the valve gate (mode gate valve, plate gate valve, knife gate valve, globe valve, etc.) to do the linear movement perpendicular to the fluid so as to realize the purpose of adjusting, opening and closing the valve.

以JK型系列双作用活塞气动执行机构为例。此气动执行机构采用双层气缸和缓冲机构的工作原理，配合闸阀工作的四个阶段分述如下：
（附原理图1、2、3、4）

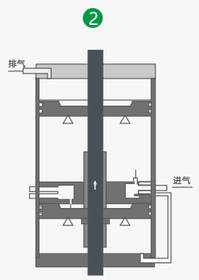
Take JK series double acting piston pneumatic actuator as an example.This pneumatic actuator adopts the working principle of double-layer cylinder and buffer mechanism, and the four stages of working with gate valve are described as follows:
(schematic drawings 1, 2, 3, 4 are attached)

1、闸阀开启前阶段：上层气缸的活塞（以下简称活塞）和下层气缸的活塞（以下简称下活塞）同时受力，阀杆在上、下活塞的推动下，以单位活塞近二倍的提升力，克服闸板密封面和阀体密封面之间的最大静摩擦力，带动闸板上升，压缩空气由上气缸的下气室，经由设置在隔板的特定通道，通过连通管，到达下气缸的下气室，推动上下活塞同时工作，下气缸上气室中的气体，经过设置在隔板内的另一特定通道，畅通无阻地排出气缸体外；
2、闸阀开启的后阶段：在闸板稍稍开启以后，下活塞就运行到了上死点并停止运动，闸板在上活塞的带动下，继续提升，直至到了全开为准；
3、闸阀关闭的前阶段：在上活塞的推动下，闸板离开全开为准，开始下降；
4、闸阀关闭的后阶段：当上活塞碰到下活塞凸台，并带动下活塞一起继续下降时，由于下气缸上气室的进气通道和下气缸下气室的排气通道设有阻碍，明显地减慢了下行的速度，进至闸板下降到了全关位置，闸板缓冲下行不但避免了闸板关得过紧，同时，还保护了密封面，免受猛烈冲击而损坏。

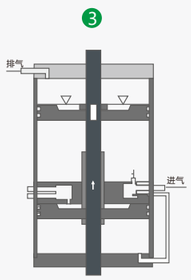
1, gate opening stages: before the upper cylinder piston (hereinafter referred to as the piston) and the lower cylinder piston (hereinafter referred to as the piston) force at the same time, the valve stem under the impetus of the upper and lower piston, piston to unit nearly two times of lifting force, overcome the damper seal face and body sealing surface, the maximum static friction force between the drive ram, by the cylinder chamber, compressed air through the Settings in the diaphragm of a specific channel,
Through the connecting pipe, it reaches the lower air chamber of the lower cylinder and pushes the upper and lower pistons to work at the same time. The gas in the upper air chamber of the lower cylinder is discharged unimpeded outside the cylinder through another specific channel set in the partition plate.
2. The later stage of gate valve opening: after the gate is slightly opened, the lower piston will run to the upper dead point and stop moving, and the gate will be driven by the upper piston and continue to lift until it is fully opened;
3. The first stage of gate valve closing: under the push of the upper piston, the gate shall be opened until it leaves the upper piston, and then begins to decline;
Stage 4, after the gate closed: when the piston above the piston convex platform, and to drive the piston continues to fall together, because in the cylinder under the air chamber inlet channel and the lower cylinder exhaust air chamber under equipped with obstacles, obviously slowed down the speed, into to gate fell to seated position, the ram buffer down not only avoids the ram shut tight, at the same time, also protect the seal face, from violent impact Damage.



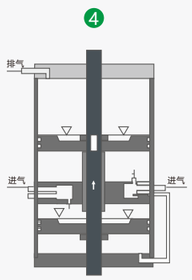
开阀初始阶段工作力=2P
Initial operating force of valve opening =2P



开阀终了阶段工作力=P
Working force at the end of valve opening =P



关阀初始阶段工作力=P
Initial working force of valve closing =P



关阀终了阶段工作力=P
Working force at the closing stage =P

结构特点
Structural Features

功能强大
金科KINKO可提供不同型号的JK系列气动执行机构满足客户的个性化需求，也能为客户专业化定制全套工程解决方案，气动阀门系列成套设备可以配用阀位回信器，阀门定位器，电磁阀。气源处理器，气/手动切换机构，液压组件，储气罐等附件满足现场工况需要，并可实现阀门的远程控制，多合集中控制等操作。

powerful
KINKO can provide different types of JK series pneumatic actuators to meet the personalized needs of customers, but also can provide customers with professional customized full set of engineering solutions, pneumatic valve series complete equipment can be equipped with valve position returners, valve positioner, solenoid valve.Air source processor, air/manual switching mechanism, hydraulic components, gas storage tank and other accessories meet the needs of field conditions, and can achieve remote valve control, multi-set control and other operations.

安全可靠
JK系列的部分气动执行机构的防护等级符合IP65标准（防尘、防水），当气动执行机构用气/手动切换机构时，现场出现断气断电或电磁阀及其控制电路发生故障时，都可十分方便地转动操作手柄，迅速地进行由气动至手动的操作方式的转换，保证线路正常运行，避免事故发生，同时在新建工程的自控系统未完成之前，本系列产品可以可靠地作为手动阀门适用。

Safe and reliable
Useful part of the series pneumatic actuators the protection level of IP65 standards (dustproof and waterproof), when the actuator gas/manual switching mechanism, the scene appears expired or solenoid valve and its control circuit power failure occurs, can be very convenient to turn the handle operation, quickly to the pneumatic conversion to manual mode of operation, ensure the normal operation of lines, avoid the accident, at the same time before the new construction of automatic control system is not completed, this series product can be reliably as manual valves.

标准化
金科KINKO为了扩大直行程气动执行机构的市场通用化程度，方便产品的安装适用及售后服务，本公司可根据多年的市场数据分析，致力于将直行程气动执行机构系列产品实现市场标准化，通过简化产品品种，加快产品设计和生产准备过程，保证和提高产品和工程质量，扩大产品零件，部件的互换性，降低产品和工程成本，为客户提供质量卓越，价格实惠的产品，本产品连接尺寸符合ISO52111国际标准。

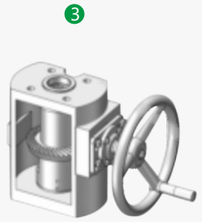
standardized
KINKO to enlarge the market of straight travel actuator generalization degree, convenient and shall be applicable to the product installation and after-sales service, our company can according to the market data analysis for many years, is committed to the straight travel pneumatic actuators series product market standardization, by simplifying the product varieties, speed up product design and production preparation process, ensure and improve the quality of products and engineering, expand the product parts, parts interchangeability, reduce the cost of products and engineering to provide clients with superb quality, affordable products, the products meet the international standards of ISO52111 connection size.



顶装手动机构
Top loading manual



顶装手动机构
Top loading manual

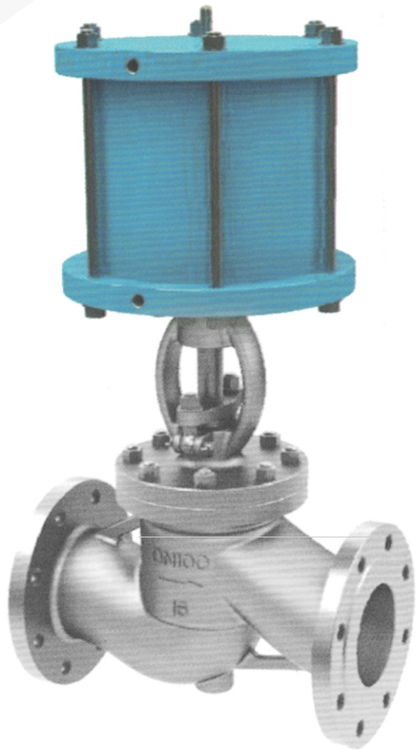


侧装手动机构
Side mounted manual mechanism

PNEUMATIC GLOBE VALVE SERIES
气动截止阀系列

气动截止阀
型号：J641H(F)
口径：DN50~800mm
压力：0.6、1.0、1.6、2.5、4.0MPa;150Lb、300Lb
尺寸标准：国标、美标
阀体材质：碳钢（WCB）、不锈钢（CF8、CF8M、CF3、CF3M）
阀座材料：金属密封（H、Y）、聚四氟乙烯（F）
作用方式：双作用、单作用（弹簧复位）
控制方式：开关型、调节型
附件选择：电磁阀、定位器、限位开关、气源处理三联件、手动机构

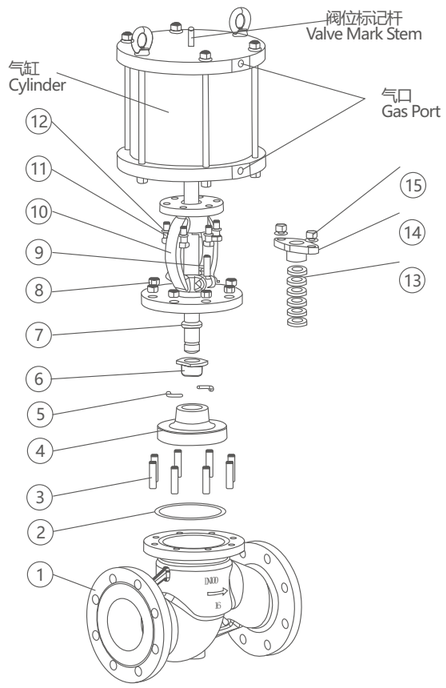
Pneumatic Globe Valve
Model:J641H(F)
Size:DN50~800mm
Working Pressure:0.6、1.0、1.6、2.5、4.0MPa;150Lb、300Lb
Design Standard:GB Standard,ANSI
Body Material ：Carbon Steel(WCB),
Stainless Steel（CF8、CF8M、CF3、CF3M）
Seat Material:Metal Sealed(H、Y)、PTFE(F)
Mode of Action:Double-acting
Single-acting(Spring Return)
Mode of Control:ON/OFF Type,Adjusting Type
Annex Choice:Solenoid Valve,POSITIONER
Limit Switch,F.R.L.Manual Gear



GB 标准气动法兰截止阀
GB Standard Pneumatic Flange Globe Valve

J641H(W、F、Y)-PN16~40





技术规范Technical Table

设计依据 Design Basis		GB标准Standard
设计标准 Design Standard		GB/12234
结构长度 Face to Face dimension	法兰连接 Flange connecting	GB/12221
法兰连接尺寸 connecting Flange Size		GB/9113、JB/T79
试验和检验 Test &inspection		GB/T 13927、JB/T9092

注：系列截止阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note: The structural length and connecting flange size of gate valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Main Parts' Material List

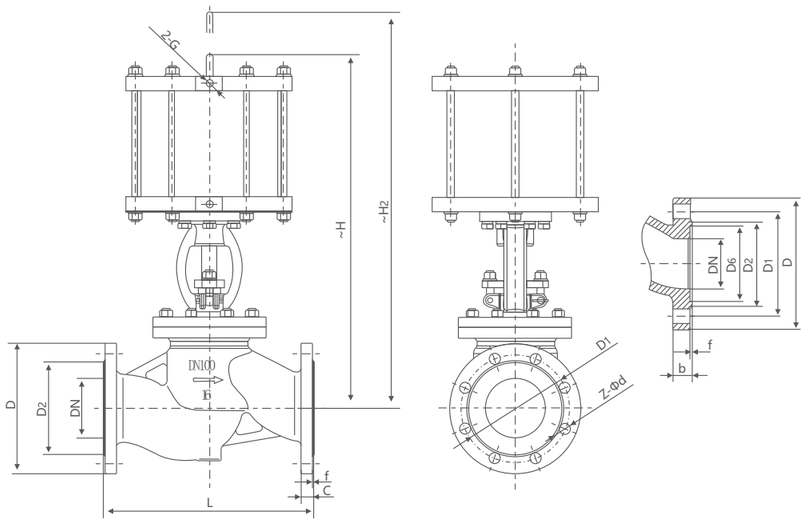
序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	阀体Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
2	垫片Gasket	柔性石墨+不锈钢Graphite+ Stainless Steel	PTFE	PTFE
3	螺栓Screw	35	304	304
4	阀瓣Disc	WCB+堆焊304或stelite、PTFE	ZG1Cr18Ni9Ti PTFE	ZG1Cr18Ni12Mo2Ti PTFE
5	对开环Split ring	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
6	阀瓣盖 Disc cover	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
7	阀杆Sem	2Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
8	螺帽Scre Cap	35	304	304
9	吊环螺栓 Lifting Ring Screw	35	304	304
10	阀盖Cover	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
11	螺栓Screw	35	304	304
12	垫片Gasket	35	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
13	填料Packing	柔性石墨 Graphite	PTFE	PTFE
14	填料压板 Packing Plate	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
15	螺帽Scre Cap	35	304	304

注：系列截止阀主要零部件及密封密封阀座的材质可根据实际工况条件或用户特殊要求设计选用。
Note: The main spare parts and sealed seat material of gate valve series can be designed for options as per users' special requirements.

GB 标准气动法兰截止阀
GB Standard Pneumatic Flange Globe Valve

J641H(W、F、Y)-PN16





主要外形及连接尺寸J641H(W、F、Y)-16C/P/R Overview Dimension（mm）

公称通径 Nominal diameter DN	外形尺寸Outline Dimension		连接法兰尺寸 Connecting Flange Size							气源接口 Air Source Interface
	L	~H	D	D1	D2	C	f	N	Φd	
15	130	291	95	65	46	14	2	4	14	1/4"
20	150	300	105	75	56	16	2	4	14	
25	160	353	115	85	65	16	2	4	14	
32	180	390	140	100	76	18	2	4	18	
40	200	518	150	110	84	18	3	4	18	
50	230	555	165	125	99	20	3	4	18	
65	290	630	185	145	118	20	3	4	18	
80	310	683	200	160	132	20	3	8	18	
100	350	745	220	180	156	22	3	8	18	3/8"
125	400	855	250	210	184	22	3	8	18	
150	480	870	285	240	211	24	3	8	22	
200	600	954	340	295	266	24	3	12	22	
250	730	1065	405	355	319	26	3	12	26	
300	850	1185	460	410	370	28	4	12	26	

注：根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化
Note：The relative sizes are subject to change responding to different valve torques,mediums and actuator models.

GB 标准气动法兰截止阀
GB Standard Pneumatic Flange Globe Valve

主要外形及连接尺寸J641H(W、F、Y)-25C/P/R Overview Dimension(mm)

公称通径 Nominal diameter DN	外形尺寸Outline Dimension		连接法兰尺寸 Connecting Flange Size							气源接口 Air Source Interface
	L	~H	D	D1	D2	C	f	N	Φd	
15	130	291	95	65	46	14	2	4	14	1/4"
20	150	300	105	75	56	16	2	4	14	
25	160	353	115	85	65	16	2	4	14	
32	180	390	140	100	76	18	2	4	18	
40	200	518	150	110	84	18	3	4	18	
50	230	555	165	125	99	20	3	4	18	
65	290	630	185	145	118	22	3	8	18	
80	310	683	200	160	132	24	3	8	18	
100	350	745	235	190	156	24	3	8	22	3/8"
125	400	855	270	220	184	26	3	8	26	
150	480	870	300	250	211	28	3	8	26	
200	600	954	360	310	274	30	3	12	26	
250	730	1065	425	370	330	32	3	12	30	
300	850	1185	485	430	389	34	4	16	30	

主要外形及连接尺寸J641H(W、F、Y)-40C/P/R Main Outline and Connecting Size(mm)

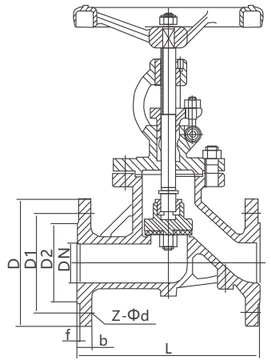
公称通径 Nominal diameter DN	外形尺寸 Outline Size		连接法兰尺寸 Connecting Flange Size									气源接口 Air Source Interface
	L	~H	D	D1	D2	C	f	N	Φd	D3	X	
15	130	305	95	65	46	14	2	4	14	40	4	1/4"
20	150	315	105	75	56	16	2	4	14	51	4	
25	160	373	115	85	65	16	2	4	14	58	4	
32	180	416	140	100	76	18	2	4	18	66	4	
40	200	530	150	110	84	18	3	4	18	76	4	
50	230	575	165	125	99	20	3	4	18	88	4	
65	290	656	185	145	118	22	3	8	18	110	4	
80	310	713	200	160	132	24	3	8	18	121	4	
100	350	775	235	190	156	24	3	8	22	150	4.5	3/8"
125	400	892	270	220	184	26	3	8	26	176	4.5	
150	480	940	300	250	211	28	3	8	26	204	4.5	
200	600	1054	375	320	284	34	3	12	30	260	4.5	
250	730	1115	450	385	345	38	3	12	33	313	4.5	
300	850	1235	515	450	409	42	4	16	33	364	4.5	

注：根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化
Note：The relative sizes are subject to change responding to different valve torques,mediums and actuator models.

抗生素截止阀
Antibiotic Globe Valve

KJ41F-16~64 C、P、R





产品用途
抗生素截止阀主要应用于生物发酵、医药和啤酒发酵、氨基酸发酵、生物农药发酵、生物肥料发酵、各种抗生素发酵、生物、生化、化学制药的物料、水、汽、冷的控制等领域，底部可以根据客户需要开设排泄孔，耐高温使用寿命长，无死角达到零泄漏水平。

产品特点
1、具有较强的杀菌、清毒功能，防止产品染菌。
2、密封垫采用耐高温聚四氟乙烯复合材料制成。
3、密封垫、阀体中道密封圈，阀杆填料全部采用优质聚四氟乙烯材料。寿命长、耐腐蚀，确保无内外漏。
4、流线型的流道，使得压力损失小。
5、密封垫可更换，拆卸更方便，维护费用低。

设计和制造标准
设计与制造：GB/T12235
法兰尺寸：JB/T79.1
结构长度：GB/T12221
检验与试验：JB/T9092

主要设计参数
口径范围：DN15~DN400。
压力范围：PN16-PN40。
温度范围：-40℃-300℃
传动方式：手动、气动、电动。
阀体材质：不锈钢、铸钢、铸铁。
连接方式：法兰、焊接。

主要产品性能规范

公称压力		1.6Mpa	
试验压力	强度试验	2.4	Mpa
	密封试验	1.76	
	上密封试验	1.76	
	气密封试验	0.6	
最高工作温度		300	℃
适用介质		酸、水、蒸汽、食品、医药等	

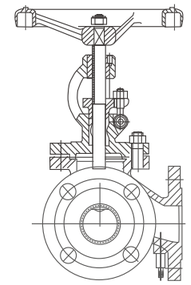
主要外形和连接尺寸 Main dimensions and connection dimensions(mm)

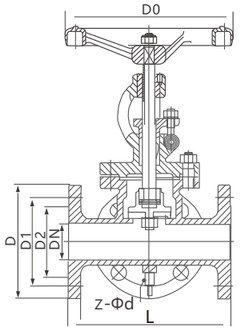
规格 DN	主要连接尺寸Main Connection Dimension								
	L	D	D1	D2	b	Z-Φd	H1	H2	D3
15	130	95	65	45	14	4-Φ14	252	194	120
20	150	105	75	55	14	4-Φ14	270	200	120
25	160	115	85	65	14	4-Φ14	310	235	140
32	180	135	100	78	16	4-Φ18	322	260	160
40	200	145	110	85	16	4-Φ18	360	345	180
50	230	160	125	100	16	4-Φ18	408	370	200
65	290	180	145	120	18	4-Φ18	435	420	240
80	310	195	160	135	20	4-Φ18	475	455	280
100	350	215	180	160	20	8-Φ23	525	495	320
125	400	245	210	185	22	8-Φ23	600	570	360
150	480	280	240	210	24	8-Φ25	675	630	400
200	600	335	295	265	26	12-Φ25	730	700	500

三通抗生素截止阀
Three-way antibiotic Globe Valve

KJ43F-16~64 C、P、R







产品特点
1、具有较强的杀菌、清毒功能，防止产品染菌。
2、密封垫采用耐高温聚四氟乙烯复合材料制成。
3、密封垫、阀体中道密封圈，阀杆填料全部采用优质，聚四氟乙烯材
料。寿命长、耐腐蚀，确保无内外漏。
4、流线型的流道，使得压力损失小。
5、密封垫可更换，拆卸更方便，维护费用低。
6、设计合理，无死角，能有效的降低制药生产中的染菌率，为抗生素无菌生产提供了可靠的保证。
7、结构精密，密封性能好，杜绝了跑、冒、滴、漏、节约了能源消耗、为车间文明生产提供了有利条件；
8、材质可靠、制作精细、经久耐用，密封采用聚四氟乙烯，耐腐蚀性能强，大修时只需要换垫片，拆卸容易、维修方便，降低了成本、提高了经济效益；
9、适用范围广，不仅代替接种站的三通隔膜阀，而且可以广泛使用在原料药车间的结晶罐等工艺管道上，效果良好。

产品用途
抗生素截止阀主要应用于生物发酵、医药和啤酒发酵等领域，底部可以根据客户需要开设排泄孔，耐高温使用寿命长，无死角达到零泄漏水平

设计和制造标准
设计与制造：GB/T12235
法兰尺寸：JB/T79.1
结构长度：GB/T12221
检验与试验：JB/T9092

主要产品性能规范

公称压力		1.6Mpa	
试验压力	强度试验	2.4	Mpa
	密封试验	1.76	
	上密封试验	1.76	
	气密封试验	0.6	
最高工作温度		300	℃
适用介质		水、蒸汽、食品、医药等	

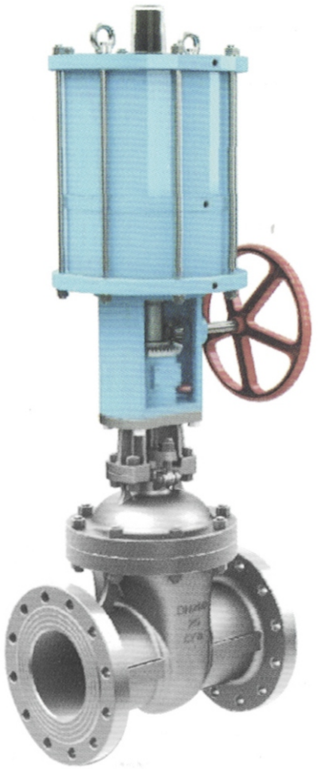
主要外形和连接尺寸 Main dimensions and connection dimensions(mm)

规格 DN	主要连接尺寸Main connection Dimension								
	L	D	D1	D2	b	Z-Φd	H1	H2	D3
15	130	95	65	45	14	4-Φ14	252	194	120
20	150	105	75	55	14	4-Φ14	270	200	120
25	160	115	85	65	14	4-Φ14	310	235	140
32	180	135	100	76	16	4-Φ18	322	260	160
40	200	145	110	85	16	4-Φ18	360	345	180
50	230	160	125	100	16	4-Φ18	408	370	200
65	290	180	145	120	18	4-Φ18	435	420	240
80	310	195	160	135	20	4-Φ18	475	455	280
100	350	230	190	160	20	8-Φ23	525	495	320
125	400	270	220	188	22	8-Φ23	600	570	360
150	480	300	250	218	24	8-Φ25	675	630	400
200	600	350	310	278	26	12-Φ25	730	700	500
250	650	425	370	232	30	12-Φ25	786	740	550

PNEUMATIC GATE VALVE SERIES
气动闸阀系列

型号：Z641(0)H（Y）
压力：1.0、1.6、2.5、4.0MPa;150Lb、300Lb
尺寸标准：国标、美标
阀体材质：铸铁、碳钢（WCB）、不锈钢（CF8、CF8M、CF3、CF3M）
阀座材料：金属密封（H、Y）
作用方式：双作用
控制方式：开关型、调节型
附件选择：电磁阀、定位器、限位开关
气源处理三联件、手动机构

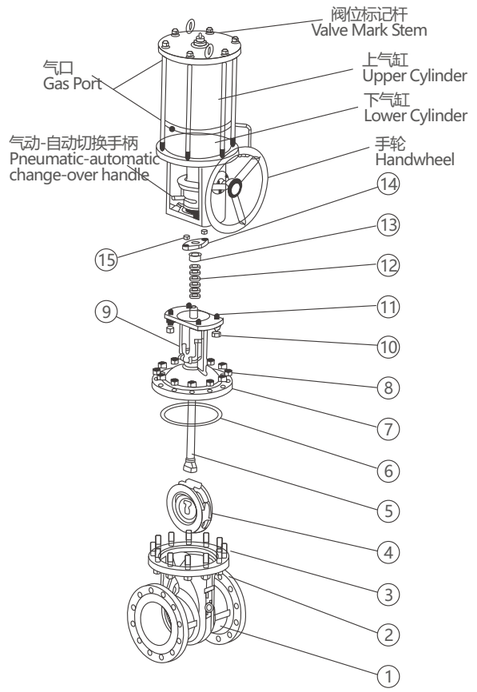
Pneumatic Gate Valve
Model:Z641(0)H(Y)
SIZE:DN50~800mm
Working Pressure:1.0、1.6、2.5、4.0MPa;150Lb、300Lb
Design Standard:GB Standard,ANSI Standard
Body Material：Cast Iron,Carbon Steel(WCB),
Stainless Steel（CF8、CF8M、CF3、CF3M）
Seat Material:Metal Sealed(H、Y)
Mode of Action:Double-acting
Mode of Control:ON/OFF Type,Adjusting Type
Annex Choice:Solenoid Valve,POSITIONER,
Limit Switch,F.R.L.Manual Gear



气动法兰连接闸阀
Pneumatic Flange Gate Valve

Z6S41(0)H(Y)-PN16~40、CLASS150~300





技术规范Technique Table

设计依据 Design Basis		GB标准Standard	ANSI标准Standard
设计标准 Design Standard		GB/12234	ANSI B16.34
结构长度 Face to Face dimension	法兰连接 Flange connecting	GB/12221	ANSI B16.10
法兰连接尺寸 connecting Flange Size		GB/9113、JB/T79	ANSI B16.5(2~24") ANSI B16.47(28~30")
试验和检验 Test &inspection		JB/T9092	API 598

注：系列闸阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note: The structural length and connecting flange size of gate valve series can be designed and manufactured as per users' requirements.

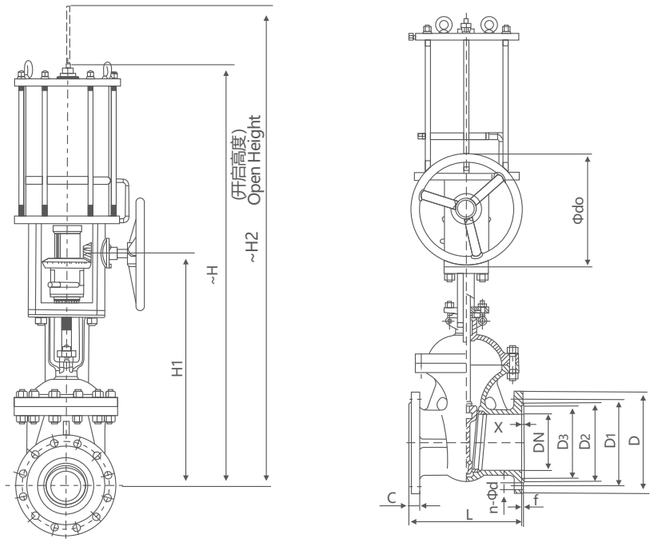
主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	阀体Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
2	螺帽Scre Cap	35	304	304
3	螺栓Screw	35	304	304
4	闸板 Shut-off Device	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
5	阀杆Sem	1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
6	垫片Gasket	不锈钢+柔性石墨、PTFE Stainless Steel+Graphite、PTFE		
7	阀盖Cover	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
8	螺帽Scre Cap	35	304	304
9	吊环螺栓 Lifting Ring Screw	35	304	304
10	螺帽Scre Cap	35	304	304
11	螺栓Screw	35	304	304
12	填料Packing	柔性石墨、PTFE Graphite、PTFE		
13	填料压套 Packing Gland	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
14	填料压板 Packing Plate	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
15	螺帽Scre Cap	35	304	304

注：系列闸阀主要零部件及密封密封阀座的材质可根据实际工况条件或用户特殊要求设计选用。
Note: The main spare parts and sealed seat material of gate valve series can be designed for options as per users' special requirements.

气动法兰连接闸阀
Pneumatic Flange Gate Valve

Z6S41(0)H(Y)-PN16



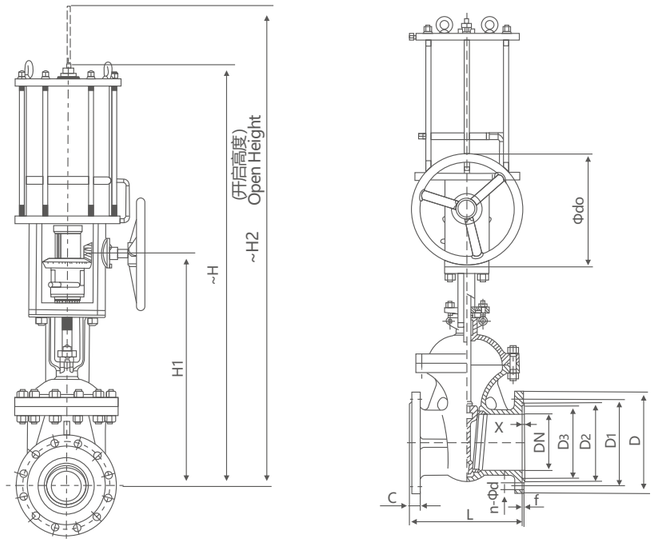
主要外形及连接尺寸Z6S41(0)H(Y)-PN16(1.6MPa) Overview Dimension(mm)

公称通径 Nominal diameter DN	外形尺寸 Outline Dimension					连接尺寸 Connecting Size					
	L	H	H_1	H_2	Φdo	D	D_1	D_2	C	f	n-Φd
50	250	790	420	840	180	165	125	99	18	3	4-Φ18
65	265	830	440	920	180	180	145	120	18	3	4-Φ18
80	280	910	460	990	200	200	160	132	20	3	8-Φ18
100	300	1050	560	1150	250	220	180	156	22	3	8-Φ18
125	325	1170	620	1270	280	245	210	185	22	3	8-Φ18
150	350	1240	660	1390	320	285	240	211	24	3	8-Φ22
200	400	1520	810	1720	400	340	295	266	24	3	12-Φ22
250	450	1700	930	1950	400	405	355	319	26	3	12-Φ26
300	500	1930	1090	2230	450	460	410	370	28	4	12-Φ26
350	550	2160	1230	2510	450	520	470	429	30	4	16-Φ26
400	600	2330	1360	2730	500	580	525	480	32	4	16-Φ30
450	650	2540	1510	2990	500	640	585	548	34	4	20-Φ30
500	700	2750	1660	3250	550	715	650	609	36	4	20-Φ33
600	800	3080	1910	3680	550	840	770	720	38	5	20-Φ36
700	900	3570	2200	4270	600	910	840	794	40	5	24-Φ36

注：根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化
Note: The relative sizes are subject to change responding to different valve torques,mediums and actuator models.

气动法兰连接闸阀
Pneumatic Flange Gate Valve

Z6S41(0)H(Y)-Class150



主要外形及连接尺寸Z6S41(0)H(Y)-Class150 Overview Dimension(mm)

公称通径 Nominal diameter		外形尺寸 Outline Dimension					连接尺寸 Connecting Size					
DN	in	L	H	H_1	H_2	Φdo	D	D_1	D_2	C	f	n-Φd
50	2	173	790	420	840	180	152	120.5	92	16	2	4-Φ19
65	2 1/2	190	860	440	920	180	178	139.6	105	18	2	4-Φ19
80	3	203	910	460	990	200	190	152.5	127	19	2	4-Φ19
100	4	229	1050	560	1150	250	229	190.5	157	24	2	8-Φ19
125	5	254	1172	620	1270	280	254	216	186	24	2	8-Φ22
150	6	267	1240	660	1390	320	279	241.5	216	26	2	8-Φ22
200	8	292	1520	810	1720	400	343	298.5	270	29	2	8-Φ22
250	10	330	1700	930	1950	400	406	362	324	31	2	12-Φ25
300	12	256	1930	1090	2230	450	483	432	381	32	2	12-Φ25
350	14	381	2160	1230	2510	450	533	476	413	35	2	12-Φ29
400	16	406	2330	1360	2730	500	597	540	470	37	2	16-Φ29
450	18	432	2540	1510	2990	500	635	578	533	40	2	16-Φ32
500	20	457	2750	1660	3250	550	699	635	584	43	2	20-Φ32
600	24	508	3080	1910	3680	550	813	749.5	692	48	2	20-Φ35
700	28	610	3570	2200	4270	600	947	863.6	800	45	2	28-Φ35

气动放料阀
Pneumatic Discharge Valve

QFL-PN16~40；Class 150~300



上展示放料阀
Open upward discharge valve



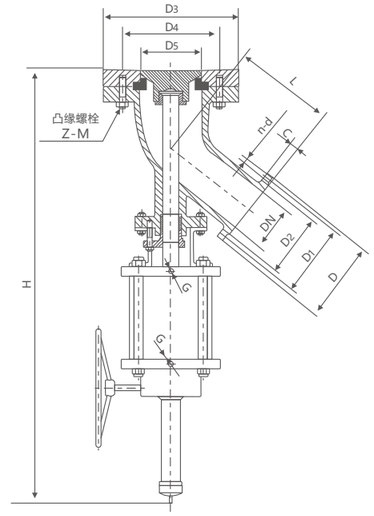
下展示放料阀
Open downward discharge valve

主要零件及技术规范 Main Parts and Technical Table

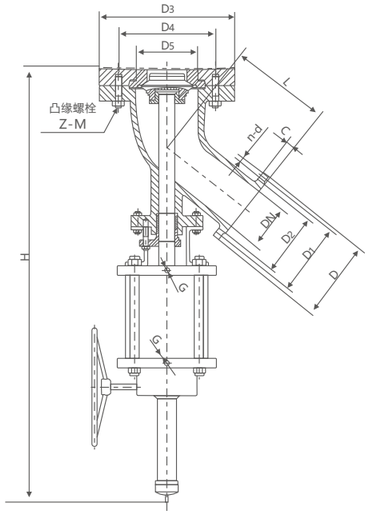
主要零件 Main parts	阀体、阀盖 Body、Bonnet	WCB	CF8(304)	CF8(304L)	CF8M(316)	CF3M(316L)
	阀杆Stem	2Cr13	(304)	(304L)	(316)	(316L)
	阀瓣Disc	WCB	CF8(304)	CF3(304L)	CF8M(316)	CF3M(316L)
	填料、垫圈 Packing、Gasket	V型聚四氟乙烯、柔性石墨环、聚四氟乙烯片、柔性石墨缠绕垫 V-PTFE,Flexible grsphite ring,PTFE,flexible graphite wound gasket				
适用工况 Applicable working conditions	适用介质 Applicable Medium	水、蒸汽、油品等 Water,steam,oil etc.	硝酸等腐蚀 介质 Nitric acid and other corrosive medium	强氧化 介质 Strong oxidizing medium	醋酸等腐蚀 介质 Acetic acid and other corrosive medium	尿素等腐蚀 介质 Uread and other corrosive medium
	适用温度 Applicable Temperature	-29~425℃				
应用规范 Application specification	设计制造 Design and manufacture	GB 12237-89			API6D	
	法兰尺寸 Flange size	GB/T9113(也可按HG20592-97订做) GB/T9113(according HG20592-97 to customised			ANSI B16.5	
	结构长度 Face to face	GB12221-89			ANSI B16.10	
	检验试验 Test&inspection	JB/T9092-99、GB/T13927-89			API598	

气动放料阀
Pneumatic Discharge Valve

QFL-PN16~40；Class 150~300



上展示
Open upward



下展示
Open downward

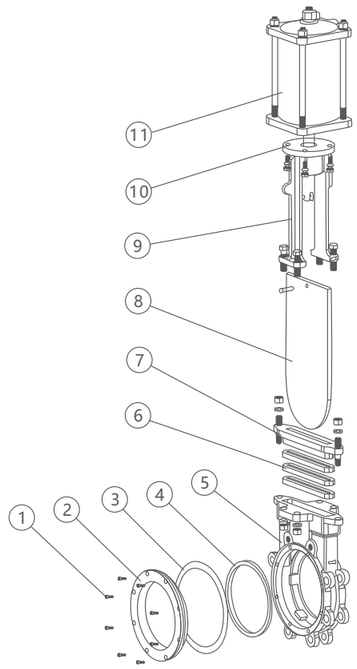
主要外形及连接尺寸(下展示) HG5-81 Overview Dimension(Open downward)(mm)

公称通径 Nominal diameter DN	外形主要连接法兰尺寸Outline and Connecting Flange Size													气源接口 Air Source Interface
	~H	D	D1	D2	C	f	N	Φd	D3	D4	D2	L	Z-M	
25	750	115	85	65	16	2	4	14	115	85	47	125	M12×4	1/4"
40	845	150	110	84	18	3	4	18	160	125	80	160	M16×4	
50	845	165	125	99	20	3	4	18	180	145	80	169	M16×4	
65	1000	185	145	118	20	3	4	18	195	160	110	175	M16×8	
80	1050	200	160	132	20	3	8	18	225	190	137	185	M16×8	
100	1120	220	180	156	22	3	8	18	260	225	180	210	M16×8	
125	1370	250	210	184	22	3	8	18	280	240	180	230	M20×8	
150	1450	285	240	211	24	3	8	22	295	295	210	240	M20×8	
200	1580	340	295	266	24	3	12	22	405	335	275	330	M22×12	
250	1720	405	355	319	26	3	12	26	460	410	330	380	M22×12	

气动对夹式刀形闸阀
Pneumatic Wafer Type Knife Gate Valve

PZ673H(F、Y)-PN10、Class150





技术规范Technical Table

设计依据 Design Basis	GB标准Standard	ANSI标准Standard
设计标准 Design Standard	JB/T8691-1998	ANSI B16.34
法兰连接尺寸 Connecting Standard	GB/9113、JB/T79	ANSI B16.5
试验和检验 Test &inspection	JB/T9092	API 598

注：系列闸阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note: The structural length and connecting flange size of gate valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

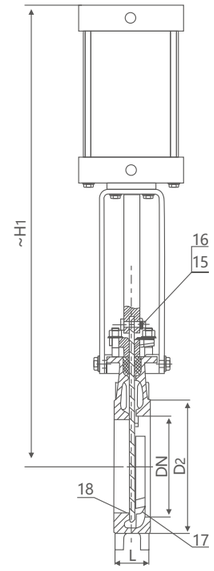
序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	内六角螺钉 Inner Hexagon Screw	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
2	阀盖Cover	WCB	1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
3	垫片Gasket	PTFE	PTFE	PTFE
4	阀座Seat	1Cr18Ni9Ti 或PTFE、橡胶Rubber		1Cr18Ni12Mo2Ti 或PTFE、橡胶Rubber
5	阀体Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
6	密封填料 Packing Material	丁腈橡胶或PTFE PTFE Nirtile Rubber or PTFE	丁腈橡胶或PTFE PTFE Nirtile Rubber or PTFE	丁腈橡胶或PTFE PTFE Nirtile Rubber or PTFE
7	压盖 Gland	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
8	闸板 Shut-off Device	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
9	支架 Yoke	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni9Ti
10	推拉杆 Push-and-pull Rod	45#钢镀铬 45#Steel Crome Plating	45#钢镀铬 45#Steel Crome Plating	45#钢镀铬 45#Steel Crome Plating
11	气动执行器 Pneumatic-Actuator	ZTQD系列 ZTQD Series		

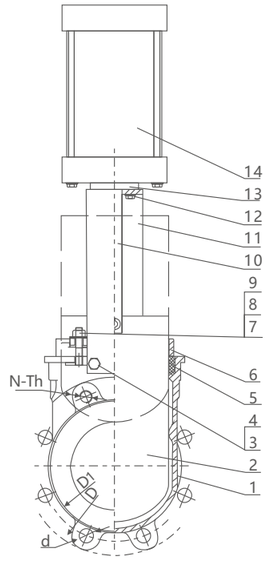
注：系列闸阀主要零部件及密封密封阀座的材质可根据实际工况条件或用户特殊要求设计选用。
Note: The main spare parts and sealed seat material of gate valve series can be designed for options as per users' special requirements.

气动对夹式刀形闸阀
Pneumatic Wafer Type Knife Gate Valve

PZ673H(F、Y)-PN10







主要外形及连接尺寸PZ673H(F、X)-PN10(1.0MPa) Overview Dimension(mm)

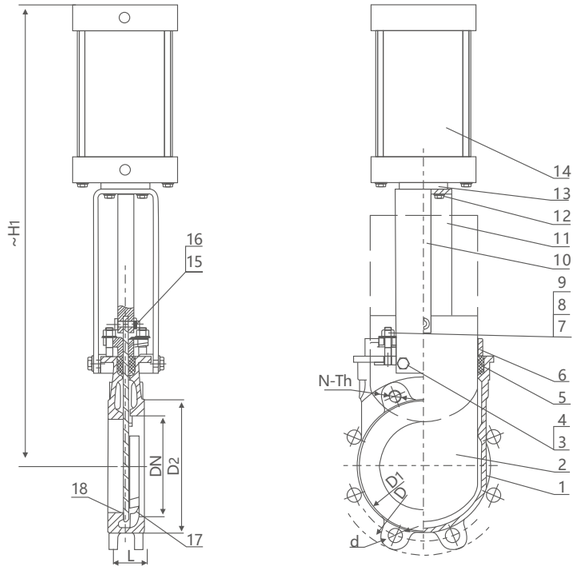
公称通径 Nominal diameter DN	连接尺寸 Connecting Dimension							
	L	D	D1	D2	Do	N-Th	d	H1
50	48	165	125	99	180	4-M16	Φ18	460
65	48	185	145	118	200	4-M16	Φ18	520
80	51	200	160	132	220	8-M16	Φ18	570
100	51	220	180	156	240	8-M16	Φ18	680
125	57	250	210	184	260	8-M16	Φ18	780
150	57	285	240	212	280	8-M20	Φ23	850
200	70	340	295	266	300	8-M20	Φ23	980
250	70	395	350	319	340	12-M20	Φ23	1140
300	76	445	400	370	380	12-M20	Φ23	1360
350	76	505	460	430	400	16-M20	Φ23	1460
400	89	565	515	480	450	16-M24	Φ27	1630
450	89	615	565	530	530	20-M24	Φ27	1770
500	114	670	620	582	600	20-M24	Φ27	1960
600	114	780	725	682	600	20-M27	Φ30	2245
700	127	895	840	794	680	24-M27	Φ30	2600
800	127	1015	950	901	680	24-M30	Φ33	2910
900	203(127)	1115	1050	1001		28-M30	Φ33	3200
1000	216(149)	1230	1160	1112		28-M33	Φ36	3550
1200	254(156)	1455	1380	1328		32-M36	Φ39	4250

注：根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化
Note: The relative sizes are subject to change responding to different valve torques,mediums and actuator models.

气动对夹式刀形闸阀
Pneumatic Wafer Type Knife Gate Valve

PZ673H(F、Y)-Class 150





主要外形及连接尺寸PZ673H(F、X)-Class 150 Overview Dimension(mm)

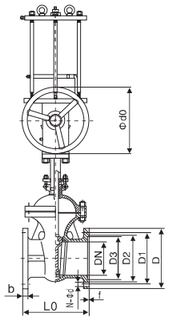
公称通径 Nominal diameter		连接尺寸 Connecting Dimension							
DN	in	L	D	D_1	D_2	Do	N-Th	d	H_1
50	2"	48	152	120	92	180	4-M5/8-11	Φ19	460
65	2.5"	48	178	139.5	105	200	4-M5/8-11	Φ19	520
80	3"	51	190.5	152.5	127	220	4-M5/8-11	Φ19	570
100	4"	51	220.5	190.5	157	240	8-M5/8-11	Φ19	680
125	5"	57	254	216	186	260	8-M3/4-10	Φ22	780
150	6"	57	279	241.5	216	280	8-M3/4-10	Φ22	850
200	8"	70	343	298.5	270	300	8-M3/4-10	Φ22	980
250	10"	70	406	362	324	340	12-M7/8-9	Φ25	1140
300	12"	76	483	432	381	380	12-M7/8-9	Φ25	1360
350	14"	76	533	476	413	400	12-M1-8	Φ29	1460
400	16"	89	597	539.5	470	450	16-M1-8	Φ29	1630
450	18"	89	635	578	533	530	16-M11/8-7	Φ32	1770
500	20"	114	699	635	584	600	20-M11/8-7	Φ32	1960
600	24"	114	813	749.5	691	600	20-M11/4-7	Φ35	2245
750	30"	144	984	914.5	857	680	28-M11/4-7	Φ35	2120
900	36"	203(127)	1168	1086	1022	680	32-M11/2-6	Φ41	2500
1000	42"	216(149)	1346	1257.5	1193		36-M11/2-6	Φ41	2800
1200	48"	254(156)	1511	1422.5	1358		44-M11/2-6	Φ41	3300

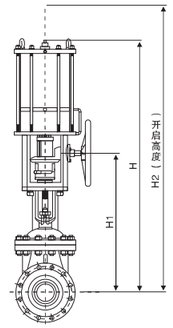
注：根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化
Note: The relative sizes are subject to change responding to different valve torques,mediums and actuator models.

气动闸阀
Pneumatic Gate Valve

Z641H







具有气动执行机构和手动及其保护机构的低支架闸阀。由于采用双层气缸结构。与单气缸式气动闸阀相比。提升力增大了一倍。阀门具备缓冲机构，能有效地减速轻了关闭阀门时，活塞下行冲击而造成的阀板车密封面和阀体密封面的磨损。也能避免闸板卡死的现象。适用于排水、污水、食品、供暖、燃气、船舶、水电、冶金、能源系统以及轻纺等行业。

Low bracket gate valve with pneumatic actuator and manual and protective mechanism. Due to the use of a double-layer cylinder structure. Compared to single cylinder pneumatic gate valves. The lifting power has doubled. The valve is equipped with a buffering mechanism, which can effectively reduce the wear of the valve plate sealing surface and valve body sealing surface caused by the downward impact of the piston when closing the valve. It can also avoid the phenomenon of the gate getting stuck. Suitable for industries such as drainage, sewage, food, heating, gas, ships, hydropower, metallurgy, energy systems, and textiles.

技术参数
Technical Parameters

公称通径DN(mm) Nominal diameter DN (mm)		50-500		
公称压力(MPa) Nominal pressure (MPa)		1.0-1.6		
材料代号 Material Code		C	P	R
主要零件 Main components	阀体 Valve body	WCB	CF8 304	CF8M 316
	密封圈 Seal ring		D577 Stellite6	
	填料 Filler		柔性石墨 Flexible graphite	
适用工况 Applicable working conditions	适用介质 Applicable medium	水、油品、空气等介质 Water, oil, air and other media		
	适用温度 Applicable temperature	-28℃~425℃		
执行器 Actuator	单作用 Single-acting	带复位圆柱弹簧，具有失气自动复位功能 Equipped with a reset cylindrical spring and automatic reset function upon gas loss		
	双作用 Double-acting	比同径单作用气缸具有更大的推力，但不具备自动复位功能 It has greater thrust than a single acting cylinder of the same diameter, but does not have an automatic reset function		
可选附件 Optional Accessories		电磁阀、限时开关、过滤减压阀、手动机构 Electromagnetic valve, time limit switch, filter pressure reducing valve, manual mechanism		

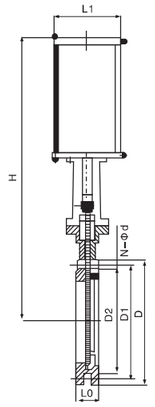
主要外形和连接尺寸 Main dimensions and connection dimensions(mm)

公称通径 Nominal diameter DN	主要连接尺寸Main Connection Dimension								
	L1	H	L0	D	D1	D2	b	f	N-Φd
40	185	630	200	150	110	84	18	3	4-Φ18
50	185	645	250	160	125	100	18	3	4-Φ18
65	232	690	270	180	145	120	18	3	4-Φ18
80	232	715	280	195	160	135	20	3	8-Φ18
100	232	770	300	215	180	155	20	3	8-Φ18
125	283	780	325	254	210	185	22	3	8-Φ18
150	283	810	350	280	240	210	24	3	8-Φ23
200	283	967	400	335	295	265	26	3	12-Φ23
250	283	1143	450	405	355	320	30	3	12-Φ25
300	283	1292	500	460	410	375	30	4	12-Φ25

气动浆液阀/刀闸阀
Pneumatic Slurry Valve/knife Gate Valve

Z673X





浆液阀(亦称浆闸阀、料浆阀、渣浆阀、液料阀)，属直行程系列阀门，橡胶密封条有效密封使气动浆液阀达到零泄漏。对夹式阀体不限制安装方向，具有体积轻，结构短，安装于各种液料管道上，阀板采用平板式，在石油、天然气、煤炭、矿石的开采、提炼加工和管道输送系统中；在化工产品、医药和食品生产中；在水电、火电和核电的电力生产系统中；在城市和工业企业的给排水、供热、和供气系统中；在农田的排灌系统中；在冶金生产系统中得以广泛应用，是一种与生产建设、国防建设和人民生活息息相关的重要机械产品。

Slurry valve (also known as slurry gate valve, slurry valve, slag slurry valve, liquid material valve) belongs to the straight stroke series of valves. The rubber sealing strip effectively seals the pneumatic slurry valve to achieve zero leakage. The clamp type valve body does not limit the installation direction, has a light volume, short structure, and can be installed on various liquid pipelines. The valve plate adopts a flat plate type, which is used in the mining, refining, processing, and pipeline transportation systems of oil, natural gas, coal, and ore; In the production of chemical products, pharmaceuticals, and food; In the power production systems of hydropower, thermal power, and nuclear power; In the water supply and drainage, heating, and gas supply systems of cities and industrial enterprises; In the irrigation and drainage system of farmland; Widely used in metallurgical production systems, it is an important mechanical product closely related to production construction, national defense construction, and people's lives.

技术参数
Technical Parameters

公称通径DN(mm) Nominal diameter DN (mm)		50-500
主要零件 Main components	阀体 Valve body	灰铸铁、碳钢、不锈钢2520 Grey cast iron, carbon steel, stainless steel 2520
	密封圈 Seal ring	橡胶硬密封 Rubber hard seal
	填料 Filler	柔性石量 Flexible Stone Quantity
适用工况 Applicable working conditions	适用介质 Applicable medium	煤浆、粮浆、纸浆、泥浆、活水砂浆、矿渣、碱液等介质 Coal slurry, grain slurry, pulp, mud, live water mortar, slag, alkali solution and other media
	适用温度 Applicable temperature	-15~+100℃
执行器 Actuator	单作用 Single-acting	带复位圆柱弹簧，具有失气自动复位功能 Equipped with a reset cylindrical spring and automatic reset function upon gas loss
	双作用 Double-acting	比同径单作用气缸具有更大的推力，但不具备自动复位功能 It has greater thrust than a single acting cylinder of the same diameter, but does not have an automatic reset function
可选附件 Optional Accessories		电磁阀、限位开关、过滤减压阀、手动机构 Electromagnetic valve, limit switch, filter pressure reducing valve, manual mechanism

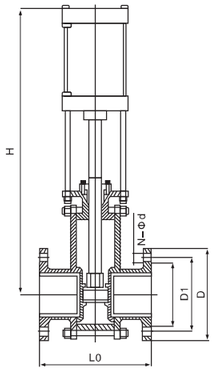
主要外形和连接尺寸 Main dimensions and connection dimensions(mm)

公称通径 Nominal diameter DN	主要连接尺寸Main Connection Dimension					
	L1	H	L0	D1	D2	N-Φd
50	185	335	48	125	100	4-Φ16
65	185	363	48	145	120	4-Φ16
80	232	395	50	160	135	4-Φ16
100	232	465	50	180	155	8-Φ16
125	232	530	50	210	185	8-Φ16
150	283	630	60	240	210	8-Φ20
200	283	750	60	295	265	8-Φ20
250	283	900	70	355	320	12-Φ20
300	283	1120	80	410	375	12-Φ20
350	283	1260	80	460	430	16-Φ20
400	335	1450	90	515	482	16-Φ22
450	363	1600	120	565	532	20-Φ22
500	395	1800	130	620	585	20-Φ22

气动双闸板阀
Pneumatic Double Gate Valve

Z644H





气动双闸板闸阀是我公司根据电厂除灰系统的特点。在引进国外最新技术的基础上自行研制开发的新产品。该阀采用特殊的双阀板结构，特别适合电厂除灰系统、矿山、造纸、化工行业干粉浆料等介质的管道上作启闭作用。

Pneumatic double gate valve is designed by our company based on the characteristics of the ash removal system in power plants. A new product independently developed based on the introduction of the latest foreign technology. This valve adopts a special double valve plate structure, which is particularly suitable for opening and closing on pipelines for media such as power plant ash removal systems, mining, papermaking, and chemical industry dry powder slurry.

技术参数
Technical Parameters

公称通径DN(mm) Nominal diameter DN (mm)		50-300
主要零件 Main components	阀体 Valve body	碳钢 Carbon steel
	密封圈 Seal ring	碳化钨 tungsten carbide
	填料 Filler	柔性石墨 flexible graphite
适用工况 Applicable working conditions	适用介质 Applicable medium	高炉煤气灰、干灰、煤粉、粉尘、水泥、颗粒物料等介质 Blast furnace gas ash, dry ash, coal powder, dust, cement, granular materials and other media
	适用温度 Applicable temperature	-29~+425℃
执行器 Actuator	单作用 Single-acting	带复位圆柱弹簧，具有失气自动复位功能 Equipped with a reset cylindrical spring and automatic reset function upon gas loss
	双作用 Double-acting	比同径单作用气缸具有更大的推力，但不具备自动复位功能 It has greater thrust than a single acting cylinder of the same diameter, but does not have an automatic reset function
可选附件 Optional Accessories		电磁阀、限位开关、过滤减压阀、手动机构 Electromagnetic valve, limit switch, filter pressure reducing valve, manual mechanism

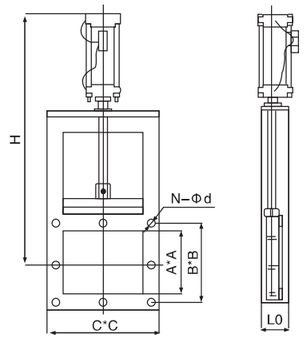
主要外形和连接尺寸 Main dimensions and connection dimensions(mm)

公称通径 Nominal diameter DN	主要连接尺寸Main Connection Dimension					
	L1	H	L0	D1	D2	N-Φd
50	185	335	48	125	100	4-Φ16
65	185	363	48	145	120	4-Φ16
80	232	395	50	160	135	4-Φ16
100	232	465	50	180	155	8-Φ16
125	232	530	50	210	185	8-Φ16
150	283	630	60	240	210	8-Φ20
200	283	750	60	295	265	8-Φ20
250	283	900	70	355	320	12-Φ20
300	283	1120	80	410	375	12-Φ20
350	283	1260	80	460	430	16-Φ20
400	335	1450	90	515	482	16-Φ22
450	363	1600	120	565	532	20-Φ22
500	395	1800	130	620	585	20-Φ22

气动闸板阀
Pneumatic Gate Valve

Z673X





结构简单、操作灵活、重量轻、无卡阻、切断快，特别适用于各类无粘度的固体、粉料及小于中10mm的颗粒料，晶粒料的输送及流量调节，安装不受角度限制，操作方便，能随时调节开度。用于建材、冶金、矿山、电力、化工、玻璃、轻工、粮食等行业的库顶、库底及进出口等。是控制流量变化较大，启动频繁，切断迅速的理想设备。

The structure is simple, the operation is flexible, the weight is light, there is no obstruction, and the cutting is fast. It is particularly suitable for the transportation and flow adjustment of various non viscosity solids, powders, and particles smaller than 10mm. The installation is not limited by angles, the operation is convenient, and the opening can be adjusted at any time. Used for the top, bottom, and import/export of warehouses in industries such as building materials, metallurgy, mining, electricity, chemical, glass, light industry, and grain. It is an ideal device for controlling large flow changes, frequent startup, and rapid shutdown.

技术参数
Technical Parameters

公称通径DN(mm) Nominal diameter DN (mm)		200*200-1000*1000
公称压力(MPa) Nominal pressure (MPa)		1.0
主要零件 Main components	阀体 Valve body	碳钢不锈钢 Carbon steel and stainless steel
	密封圈 Seal ring	硬密封、软密封 Hard seal, soft seal
	填料 Filler	柔性石墨 flexible graphite
适用工况 Applicable working conditions	适用介质 Applicable medium	高炉煤气灰、干灰、煤粉、粉尘、水泥、颗粒物料等介质 Blast furnace gas ash, dry ash, coal powder, dust, cement, granular materials and other media
	适用温度 Applicable temperature	-10~+200℃
执行器 Actuator	单作用 Single-acting	带复位圆柱弹簧，具有失气自动复位功能 Equipped with a reset cylindrical spring and automatic reset function upon gas loss
	双作用 Double-acting	比同径单作用气缸具有更大的推力，但不具备自动复位功能 It has greater thrust than a single acting cylinder of the same diameter, but does not have an automatic reset function
可选附件 Optional Accessories		电磁阀、限位开关、过滤减压阀、手动机构 Electromagnetic valve, limit switch, filter pressure reducing valve, manual mechanism

主要外形和连接尺寸 Main dimensions and connection dimensions(mm)

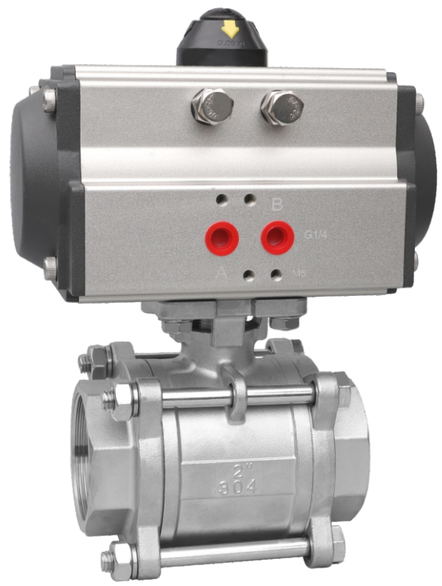
公称通径 Nominal diameter DN	主要连接尺寸Main Connection Dimension					
	L0	A*A	B*B	C*C	H	N-Φd
单向 One-way	100	200*200	256*256	296*296	820	8-Φ12
	100	250*250	306*306	346*346	930	8-Φ14
	100	300*300	356*356	396*396	1050	8-Φ14
	100	400*400	456*456	496*496	1140	12-Φ14
	120	450*450	510*510	556*556	1450	12-Φ18
	120	500*500	560*560	606*606	1610	16-Φ18
双向 Bidirectional	120	600*600	660*660	706*706	1830	16-Φ18
	140	700*700	770*770	820*820	2130	20-Φ18
	140	800*800	870*870	920*920	2440	20-Φ18
	160	900*900	974*974	1030*1030	2660	27-Φ23
	160	1000*1000	1074*1074	1130*1130	2870	27-Φ23

Kinko

PNEUMATIC BALL VALVE SERIES
气动球阀系列

公称直径：DN15-DN100
压力范围：≤1000 PSI(6.9 MPa)
介质温度：-20℃~+180℃
环境温度：-20℃~+60℃
阀体材质：不锈钢
密封：聚四氟乙烯
执行机构：铝合金
控制压力：3bar-8bar
控制功能：双作用、单作用
标准：Rp(BSP);Rc(BSPT);NPT
适用介质：水、气、油、酸、碱等

Nominal diameter: DN15-DN100
Pressure range: ≤1000PSI(6.9Mpa)
Medium Temp: -20℃~+180℃
Environment Temp: -20℃~+60℃
Body material: Stainless steel
Sealing: PTFE
Body of actuator: Aluminium alloy
Control pressure: 3bar-8bar
Control feature: Double acting、Single acting
Standard: Rp(BSP) ;Rc(BSPT); NPT
Applicable medium: water, gas, oil, acid, alkali, etc



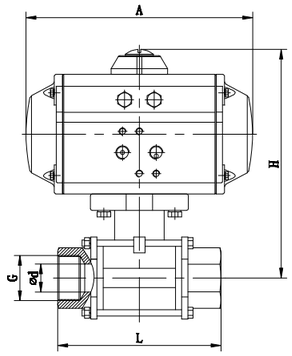
三片式气动螺纹球阀
3PC pneumatic threaded ball valve

Q611F-16P/R

◆公称直径：DN15-DN100
◆压力范围：≤1000 PSI(6.9 MPa)
◆介质温度：-20℃~+180℃
◆环境温度：-20℃~+60℃
◆阀体材质：不锈钢
◆密封：聚四氟乙烯
◆执行机构：铝合金
◆控制压力：3bar-8bar
◆控制功能：双作用、单作用
◆标准：Rp(BSP);Rc(BSPT);NPT
◆适用介质：水、气、油、酸、碱等

◆Nominal diameter: DN15-DN100
◆Pressure range: ≤1000PSI(6.9Mpa)
◆Medium Temp: -20℃~+180℃
◆Environment Temp: -20℃~+60℃
◆Body material: Stainless steel
◆Sealing: PTFE
◆Body of actuator: Aluminium alloy
◆Control pressure: 3bar-8bar
◆Control feature: Double acting、Single acting
◆Standard: Rp(BSP) ;Rc(BSPT); NPT
◆Applicable medium: water, gas, oil, acid, alkali, etc





外形连接尺寸 Overview Dimension(mm)

规格Size(G)	d	L	A	H	执行器Actuator
1/2"	15	75	153	131	JAT-052
3/4"	20	80	153	135	JAT-052
1"	25	90	153	145	JAT-052
1¼"	32	110	173	165.5	JAT-063
1½"	38	120	173	178.5	JAT-063
2"	50	140	187	197.5	JAT-075
2½"	65	185	216	225	JAT-083
3"	78	205	275	261	JAT-105
4"	98	240	316	316	JAT-115

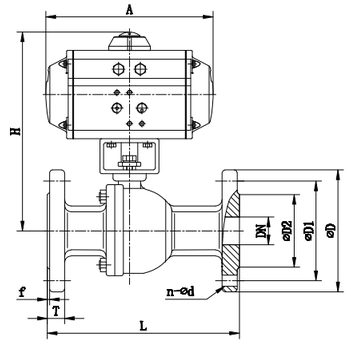
二片式气动法兰球阀
2PC pneumatic flanged ball valve

Q641F-16P/R

◆公称直径：DN15-DN200
◆压力范围：1.6Mpa-6.4Mpa
◆介质温度：-20℃~+180℃
◆环境温度：-20℃~+60℃
◆阀体材料：不锈钢、铸钢
◆密封：聚四氟乙烯
◆执行机构：铝合金
◆控制压力：3bar-8bar
◆控制功能：双作用、单作用
◆标准：GB、ANSI、DIN、JIS
◆适用介质：水、气、油、酸、碱等
◆法兰标准：JB、GB、ISO、HG、ASME、JIS等

◆Nominal diameter: DN15-DN200
◆Pressure range: 1.6Mpa-6.4Mpa
◆Medium Temp: -20℃~+180℃
◆Environment Temp: -20℃~+60℃
◆Body material: Stainless steel、Cast steel
◆Sealing: PTFE
◆Body of actuator: Aluminium alloy
◆Control pressure: 3bar-8bar
◆Control feature: Double acting、Single acting
◆Standard: GB、ANSI、DIN、JIS
◆Applicable medium: water, gas, oil, acid, alkali, etc
◆Flange standards: JB, GB, ISO, HG, ASME, JIS, etc.





外形连接尺寸 Overview Dimension(mm)

DN	L	T	f	D	D1	D2	H	A	n-Φd	执行器 Actuator
DN15	130	14	2	95	65	45	144	153	4-Φ14	JAT-052
DN20	140	14	2	105	75	55	150	153	4-Φ14	JAT-052
DN25	150	14	2	115	85	65	168.5	173	4-Φ14	JAT-063
DN32	165	16	2	135	100	78	177.5	173	4-Φ18	JAT-063
DN40	180	16	3	145	110	85	202.5	187	4-Φ18	JAT-075
DN50	200	16	3	160	125	100	210	216	4-Φ18	JAT-083
DN65	220	18	3	180	145	120	283	275	4-Φ18	JAT-105
DN80	250	20	3	195	160	135	336	316	8-Φ18	JAT-115
DN100	280	20	3	215	180	155	352	332	8-Φ18	JAT-125

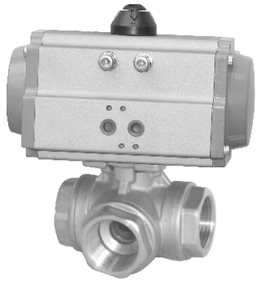
NPS	L	T	f	D	D1	D2	H	A	n-Φd	执行器 Actuator
1/2"	108	9.6	1.6	90	60. 3	35	188.5	173	4-Φ15	JAT-063
3/4"	117	10.5	1.6	100	69.9	43	203.5	187	4-Φ15	JAT-075
1"	127	11.2	1.6	110	79.4	51	213.5	187	4-Φ15	JAT-075
1-1/4"	140	12.8	1.6	115	88.9	64	235	216	4-Φ15	JAT-083
1-1/2"	165	14.3	1.6	125	98.4	73	277	275	4-Φ15	JAT-105
2"	178	15.9	1.6	150	120.7	92	330	316	4-Φ19	JAT-115
2-1/2"	190	17.5	1.6	180	139.7	105	355	332	4-Φ19	JAT-125
3"	203	19.1	1.6	190	152.4	127	391	385	4-Φ19	JAT-140
4"	229	23.9	1.6	230	190.5	157	434	450	4-Φ19	JAT-160
5"	256	23.9	1.6	280	215.9	186	531	507	8-Φ22	JAT-190
6"	394	25.4	1.6	345	241.3	216	602	646	8-Φ22	JAT-240
8"	457	28.6	1.6	405	298.5	270	641	722	8-Φ22	JAT-270

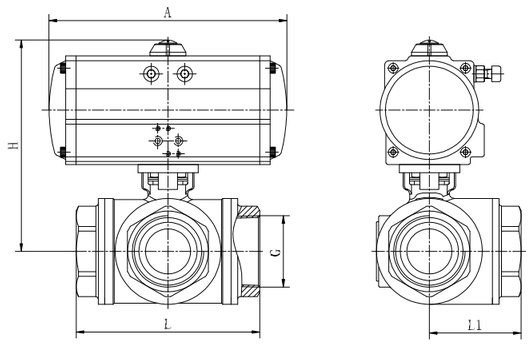
三通气动螺纹球阀
3-Way Pneumatic thread ball valve

Q614(5)F-16P/R

◆公称直径：DN15-DN50
◆压力范围：≤1000 psi(6.9 mpa)
◆介质温度：-20℃~ + 180℃
◆环境温度：-20℃~ + 60℃
◆阀体材料：不锈钢、铸钢
◆密封：聚四氟乙烯
◆执行机构：铝合金
◆控制压力：3-8bar
◆控制功能：双作用、单作用
◆标准：L型,T型
◆标准：Rp(BSP);Rc(BSPT);NPT
◆适用介质：水、气、油、酸、碱等

◆Nominal diameter：DN15-DN50
◆Pressure range：≤1000PSI （6.9Mpa)
◆Medium Temp：-20℃~+180℃
◆Environment Temp：-20℃~+60℃
◆Body material：Stainless steel、Cast steel
◆Sealing:PTFE
◆Body of actuator：Aluminium alloy
◆Control pressure：3-8bar
◆Control feature：Double acting、Single acting
◆Standard：L-type、T-type
◆Standard：Rp(BSP) ;Rc(BSPT); NPT
◆Applicable medium: water, gas, oil, acid, alkali, etc





外形连接尺寸 Overview Dimension(mm)

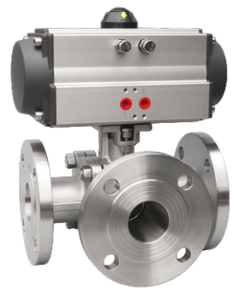
通径DN	英寸"	外形连接尺寸 Overview Dimension			
mm	inch(G)	L	L1	H	A
10	3/8"	60	30	57	110
15	1/2"	72	36	68	110
20	3/4"	85	42	70	110
25	1"	91	46	80	140
32	1¼"	110	55	85	140
40	1½"	122	61	100	180
50	2"	145	72	110	180

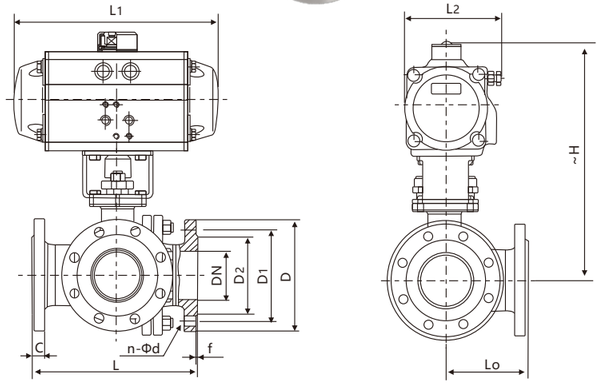
气动三通法兰球阀
Pneumatic Three-way Flange Ball Valve

Q644(5)F(N、P、H、Y)-PN16、25

◆公称直径：DN15-DN200
◆压力范围：1.6Mpa-2.5Mpa
◆介质温度：-20℃~ + 180℃
◆环境温度：-20℃~ + 60℃
◆阀体材料：不锈钢、铸钢
◆密封：聚四氟乙烯
◆执行机构：铝合金
◆控制压力：3-8bar
◆控制功能：双作用、单作用
◆标准：L型,T型
◆适用介质：水、气、油、酸、碱等
◆法兰标准：JB、GB、ISO、HG、ASME、JIS等

◆Nominal diameter：DN15-DN200
◆Pressure range：1.6Mpa-2.5Mpa
◆Medium Temp：-20℃~+180℃
◆Environment Temp：-20℃~+60℃
◆Body material：Stainless steel、Cast steel
◆Sealing:PTFE
◆Body of actuator：Aluminium alloy
◆Control pressure：3-8bar
◆Control feature：Double acting、Single acting
◆Standard：L-type、T-type
◆Applicable medium: water, gas, oil, acid, alkali, etc
◆Flange standards: JB, GB, ISO, HG, ASME, JIS, etc





主要外形及连接法兰尺寸Q644F(P、H、Y)-PN16(1.6MPa) Overview Dimension(mm)

公称通径 Nominal diameter		外形尺寸 Dimension					连接尺寸Connecting Size					
mm	in	L	Lo	L1	L2	~H	D	D1	D2	C	f	n-Φd
15	1/2	150	72	141/159	71/83	240/235	95	65	46	14	2	4-Φ14
20	3/4	160	80	159/211	83/95	240/252	105	75	56	16	2	4-Φ14
25	1	180	90	211/248	95/107	257/265	115	85	65	16	2	4-Φ14
32	1 1/4	200	100	211/248	95/107	277/312	140	100	76	18	3	4-Φ18
40	1 1/2	220	110	248/269	107/123	292/317	150	110	84	18	3	4-Φ18
50	2	240	120	248/345	107/152	325/347	165	125	99	20	3	4-Φ18
65	2 1/2	260	130	315/409	141/172	357/389	185	145	118	20	3	4-Φ18
80	3	280	140	345/409	152/172	368/400	200	160	132	20	3	8-Φ18
100	4	320	160	409/550	172/215	410/498	220	180	156	22	3	8-Φ18
125	5	380	190	438/600	187/240	470/538	250	210	184	22	3	8-Φ18
150	6	440	220	550/633	215/262	556/591	285	240	211	24	3	8-Φ22
200	8	550	260	600/730	210/330	648/687	340	295	266	24	3	12-Φ22

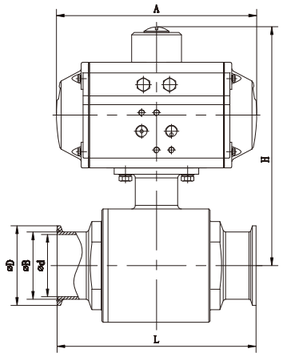
气动卫生级快装球阀
Pneumatic Tri-clamp ball valve

Q681F-10P/R

◆介质温度：-20℃～+180℃
◆环境温度:-20℃～+60℃
◆公称压力:0～1.0MPa
◆控制气体：中性气体，空气
◆气源压力：0.3~0.8MPa
◆规格：Φ19-Φ159
◆阀体材质：CF8 CF8M
◆阀座材质：PTFE
◆阀杆材质:304
◆密封圈材质:NBR

◆Medium temperature: - 20 ℃ ~ + 180 ℃
◆Ambient temperature: - 20 ℃ ~ + 60 ℃
◆Nominal pressure: 0 ~ 1.0 MPa
◆Control gas, gas, air
◆Air pressure: 0.3 ~ 0.8 MPa
◆Specification: Φ19-Φ159
◆The valve body material: CF8 CF8M
◆Seat material:PTFE
◆Stem material: 304
◆Sealing ring material: NBR





外形连接尺寸 Overview Dimension(mm)

型 号 model	L	d	D	A	H	执行器 Actuator
Φ19	108	16	50.5	146	144	AT50
Φ25	112	22	50.5	146	149	AT50
Φ32	125	29	50.5	146	156	AT50
Φ38	135	35	50.5	163	180	AT63
Φ45	150	42	64	163	192	AT63
Φ51	160	48	64	214	205	AT75
Φ57	170	53	77.5	214	212	AT75
Φ63	178	59	77.5	252	225	AT88
Φ76	220	72	91	252	230	AT88
Φ89	240	85	106	270	265	AT100
Φ102	270	97	119	316	295	AT115
Φ114	320	108	130	316	300	AT115
Φ133	400	125	145	354	312	AT125
Φ159	480	150	172	350	350	AT145

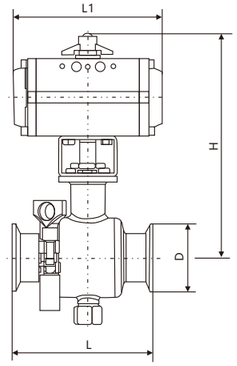
气动卫生级球阀
Sanitary pneumatic ball valve

Q681F-10P/R

◆公称直径：1/2"~4"
◆压力范围：0 - 1.0 MPa
◆介质温度：-20℃~+180℃
◆环境温度：-20℃~+60℃
◆阀体材质：不锈钢
◆密封：聚四氟乙烯
◆执行机构：铝合金
◆控制压力：3bar-8bar
◆控制功能：双作用、单作用
◆标准：DIN,ISO,SMS,3A,IDF
◆适用介质：水、气、油、酸、碱等

◆Nominal diameter: 1/2"~4"
◆Pressure range: 0-1.0Mpa
◆Medium Temp: -20℃~+180℃
◆Environment Temp: -20℃~+60℃
◆Body material: Stainless steel
◆Sealing: PTFE
◆Body of actuator: Aluminium alloy
◆Control pressure: 3bar-8bar
◆Control feature: Double acting、Single acting
◆Standard: DIN,ISO,SMS,3A,IDF
◆Applicable medium: water, gas, oil, acid, alkali, etc





外形连接尺寸 Overview Dimension(mm)

公称通径(NPS)	外形连接尺寸 Overview Dimension				执行器型号 Actuator Model
	D	L	L1	H	
1/2"	34/50.5	101	141/159	172	JATD52/JATS63
3/4"	34/50.5	117	141/159	190	JATD52/JATS63
1"	50.5	125	159/211	199	JATD63/JATS75
1¼"	50.5	140	159/211	212	JATD63/JATS75
1½"	50.5	155	211/248	226	JATD75/JATS92
2"	64	165	248/269	257	JATD83/JATS105
2½"	91	170	248/269	279	JATD92/JATS105
3"	106	176	269/315	321	JATD105/JATS125
4"	119	220	315/409	355	JATD125/JATS140

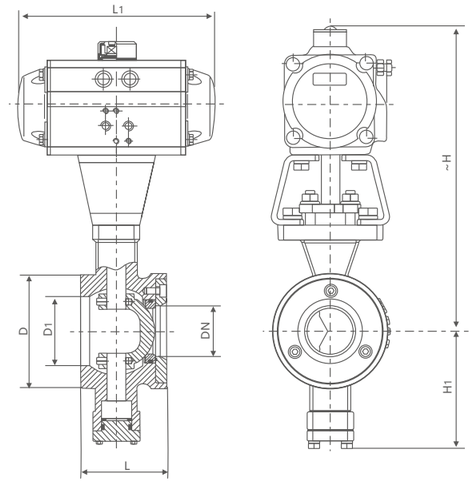
备注：根据不同的阀门扭矩，不同的气源压力及不同的实际工况，选择相匹配的执行器其相关外形尺寸也随之变化
Note: Depending on the valve torque, different air pressure and different physical conditions, choose to match its associated actuator dimensions also changes

气动对夹式V型球阀
Pneumatic Wafer V-Type Ball Valve

VQ670F(P、H、Y)-PN16、25、Class150

- 口径：DN25~250mm
- 压力：1.6、2.5、4.0、6.4MPa;150Lb、300Lb、600Lb;
- 结构：V型切口固定球
- 尺寸标准：国标、美标、日标
- 阀体材质：碳钢（WCB）、不锈钢（CF8、CF8M、CF3、CF3M）
- 阀座材料：聚四氟乙烯（F）、对位聚苯PPL（P）、
- 硬质合金钢（H、Y）
- 作用方式：双作用、单作用（弹簧复位）
- 控制方式：开关型、调节型
- 附件选择：电磁阀、定位器、限位开关
  气源处理三联件、手动机构





- Size:DN25~250mm
- Working Pressure:1.6、2.5、4.0、6.4MPa;150Lb、300Lb、600Lb;
- Structure:Fixed V-notch ball
- Design Standard:Chinese Standard,ANSI
- Body Material：Carbon Steel(WCB),
- Stainless Steel（CF8、CF8M、CF3、CF3M）
- Seat Material:PTFE,PPL,N,H,Y
- Mode of Action:Double-acting
- Single-acting(Spring Return)
- Mode of Control:ON/OFF Type,AdjustingType
- Annex Choice:Solenoid Valve,POSITIONER,
- Limit Switch,FR.L.Manual Gear

主要外形及连接法兰尺寸VQ670F(P、H、Y)-PN16、25(1.6、2.5MPa) Overview Dimension(mm)

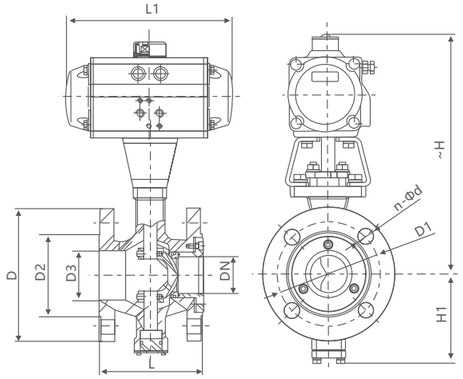
公称通径 Nominal diameter DN	外形连接尺寸 Dimension						执行器型号 Actuator Model
	L	L1	~H	H1	D	D1	
25	62	159/248	260/290	87	68	38	AT063D/AT088S
32	62	159/248	267/297	87	78	42	AT063D/AT088S
40	62	211/248	292/312	87	85	50	AT075D/AT088S
50	75	248/269	292/312	97	100	60	AT088D/AT100S
65	90	248/315	332/340	112	120	75	AT088D/AT115S
80	100	269/345	359/381	112	130	94	AT100D/AT125S
100	115	345/409	394/411	122	158	110	AT125D/AT145S
125	129	409/438	410/416	142	180	135	AT145D/AT160S
150	160	438/550	461/486	165	216	165	AT145D/AT190S
200	200	550/600	509/553	195	268	210	AT190D/AT210S
250	240	638/730	572/628	237	325	260	AT210D/AT240S

气动法兰式V型球阀
Pneumatic Flange V-Type Ball Valve

VQ640F(P、H、Y)-PN16、25

- 口径：DN25~500mm
- 压力：1.6、2.5、4.0、6.4MPa;150Lb、300Lb、600Lb;
- 结构：V型切口固定球
- 尺寸标准：国标、美标、日标
- 阀体材质：碳钢（WCB）、不锈钢（CF8、CF8M、CF3、CF3M）
- 阀座材料：聚四氟乙烯（F）、对位聚苯PPL（P）、
- 硬质合金钢（H、Y）
- 作用方式：双作用、单作用（弹簧复位）
- 控制方式：开关型、调节型
- 附件选择：电磁阀、定位器、限位开关
  气源处理三联件、手动机构





- Size:DN25~500mm
- Working Pressure:1.6、2.5、4.0、6.4MPa;150Lb、300Lb、600Lb;
- Structure:Fixed V-notch ball
- Design Standard:Chinese Standard,ANSI
- Body Material：Carbon Steel(WCB),
- Stainless Steel（CF8、CF8M、CF3、CF3M）
- Seat Material:PTFE,PPL,N,H,Y
- Mode of Action:Double-acting
- Single-acting(Spring Return)
- Mode of Control:ON/OFF Type,AdjustingType
- Annex Choice:Solenoid Valve,POSITIONER,
- Limit Switch,FR.L.Manual Gear

技术标准 Technical specification

设计依据Design Basis	Gb标准 Standard	ANSI标准 Standard
设计标准Design Standard	GB/12237	ANSI B16.34
连接法兰尺寸Connecting Flange Size	GB/9113、JB/T79	ANSI B16.5
试验和检验Test & inspection	JB/T9002	API 598

主要外形及连接法兰尺寸VQ640F(P、H、Y)-PN16(1.6MPa) Overview Dimension(mm)

公称通径 Nominal diameter DN	外形连接尺寸 Dimension											执行器型号 Actuator Model
	L	L1	~H	H1	D	D1	D2	D3	C	f	n-Φd	
25	102	159/248	269/290	87	115	85	65	38	16	2	4-Φ14	AT063D/AT088S
32	105	159/248	267/297	87	140	100	76	42	18	3	4-Φ18	AT063D/AT088S
40	114	211/269	292/312	87	150	110	84	50	18	3	4-Φ18	AT075D/AT100S
50	124	248/269	292/312	97	165	125	99	60	20	3	4-Φ18	AT088D/AT100S
65	145	269/315	327/340	112	185	145	118	75	20	3	4-Φ18	AT100D/AT115S
80	165	315/345	359/381	112	200	160	132	94	20	3	8-Φ18	AT115D/AT125S
100	194	345/409	395/412	122	220	180	156	110	22	3	8-Φ18	AT125D/AT145S
125	213	409/438	399/416	142	250	210	184	135	22	3	8-Φ18	AT145D/AT160S
150	229	438/550	461/486	165	285	240	211	165	24	3	8-Φ22	AT160D/AT190S
200	243	550/600	509/553	195	340	295	266	210	24	3	12-Φ22	AT190D/AT210S
250	297	633/730	603/628	237	405	355	319	260	26	3	12-Φ26	AT240D/AT270S
300	334	730	790/825	287	460	410	370	310	28	4	12-Φ26	AT270D
350	414	1180	828/858	338	520	470	429	360	30	4	12-Φ26	AW20
400	490	1180	1063/-	390	580	525	480	410	32	4	16-Φ30	AW20
500	600	1320	-	510	715	650	609	510	36	4	16-Φ30	AW25

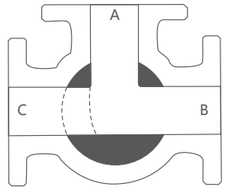
气动三通法兰式球阀
Pneumatic Three-way Flange Ball Valve

Q644(5)F(N、P、H、Y)-PN16、25

三通球阀介质流向示意图 Sketch of medium flow-direction of Three-way Ball valve

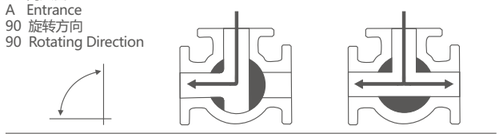
三通球阀用于换向分流或汇合流通，是具有二面或四面阀座的多通口球阀，任一通口可用作入口而无泄漏。三通即可制成L型通口也可制成T型通口。

Three-way ball valve is used for diffluence or confluent circulation with two-side or four-side valve base embodying multiple channels.All the channels can be used as entrance,with no leakage. The three-way can be made to L-shaped chnnel or T-shaped channel.

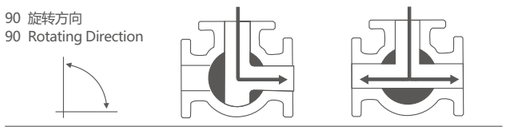


T型通口 T-shaped Passage

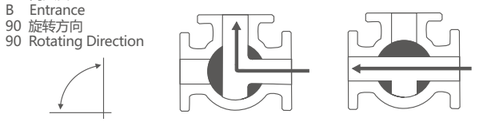
A 向入口
A Entrance
90 旋转方向
90 Rotating Direction



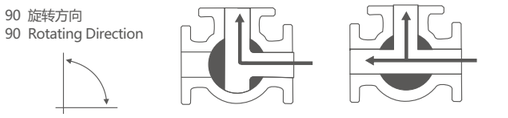
90 旋转方向
90 Rotating Direction



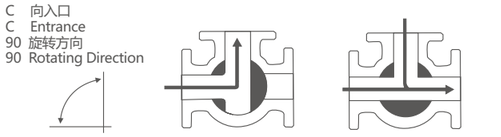
B 向入口
B Entrance
90 旋转方向
90 Rotating Direction



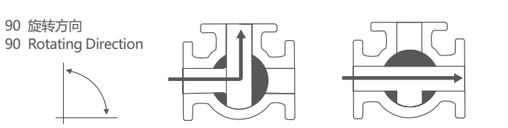
90 旋转方向
90 Rotating Direction



C 向入口
C Entrance
90 旋转方向
90 Rotating Direction

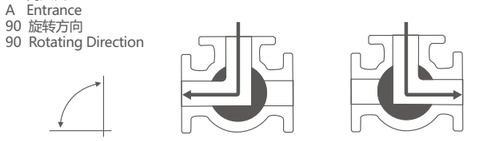


90 旋转方向
90 Rotating Direction

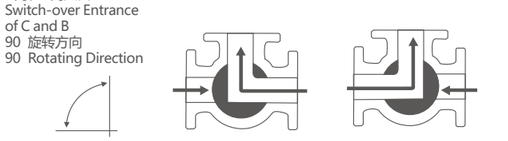


L型通口 L-shaped Passage

A 向入口
A Entrance
90 旋转方向
90 Rotating Direction



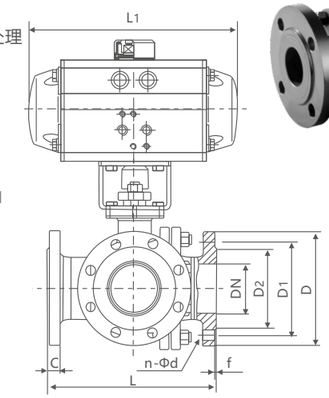
C向、B向入口
Switch-over Entrance of C and B
90 旋转方向
90 Rotating Direction

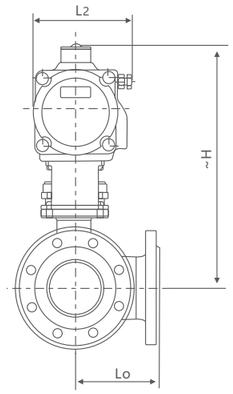


气动三通法兰式球阀
Pneumatic Three-way Flange Ball Valve
Q644(5)F(N、P、H、Y)-PN16、25

- 口径：DN15~200mm
- 压力：1.6、2.5、4.0、6.4MPa;150Lb、300Lb、600Lb;
- 结构：法兰式
- 尺寸标准：国标、美标、日标
- 阀体材质：碳钢（WCB）、不锈钢（CF8、CF8M、CF3、CF3M）
- 阀座材料：聚四氟乙烯（F）、对位聚苯PPL（P）、硬质合金钢（H、Y）
- 作用方式：双作用、单作用（弹簧复位）
- 控制方式：换向、分流、合流
- 附件选择：电磁阀、定位器、限位开关、气源处理三联件、手动机构







- Size:DN15~200mm
- Working Pressure:1.6、2.5、4.0、6.4MPa; 150Lb、300Lb、600Lb;
- Connection:Flanged
- Design Standard:GB Standard,ANSI Standard,JIS Standard
- Body Material：Carbon Steel(WCB),
- Stainless Steel（CF8、CF8M、CF3、CF3M）
- Seat Material:PTFE,PPL,N,H,Y
- Mode of Action:Double-acting
- Single-acting(Spring Return)
- Mode of Control:ON/OFF Type,Adjusting Type
- Annex Choice:Solenoid Valve,POSITIONER,
- Limit Switch,F.R.L.Manual Gear

主要外形及连接法兰尺寸Q644F(P、H、Y)-PN16(1.6MPa) Overview Dimension(mm)

公称通径 Nominal diameter		外形尺寸 Dimension					连接尺寸Connecting Size						执行器型号 Actuator Model
mm	in	L	Lo	L1	L2	~H	D	D1	D2	C	f	n-Φd	
15	1/2	150	72	141/159	71/83	240/235	95	65	46	14	2	4-Φ14	AT050D/AT063S
20	3/4	160	80	159/211	83/95	240/252	105	75	56	16	2	4-Φ14	AT063D/AT075S
25	1	180	90	211/248	95/107	257/265	115	85	65	16	2	4-Φ14	AT075D/AT088S
32	1 1/4	200	100	211/248	95/107	277/312	140	100	76	18	3	4-Φ18	AT075D/AT088S
40	1 1/2	220	110	248/269	107/123	292/317	150	110	84	18	3	4-Φ18	AT088D/AT100S
50	2	240	120	248/345	107/152	325/347	165	125	99	20	3	4-Φ18	AT088D/AT100S
65	2 1/2	260	130	315/409	141/172	357/389	185	145	118	20	3	4-Φ18	AT115D/AT145S
80	3	280	140	345/409	152/172	368/400	200	160	132	20	3	8-Φ18	AT125D/AT145S
100	4	320	160	409/550	172/215	410/498	220	180	156	22	3	8-Φ18	AT145D/AT190S
125	5	380	190	438/600	187/240	470/538	250	210	184	22	3	8-Φ18	AT160D/AT210S
150	6	440	220	550/633	215/262	556/591	285	240	211	24	3	8-Φ22	AT190D/AT240S
200	8	550	260	600/730	210/330	648/687	340	295	266	24	3	12-Φ22	AT210D/AT270S

气动活塞式V型调节球阀
Pneumatic Piston V-type Regulating Ball Valve



气动活塞式V型调节球阀(简称调节球阀)是一种旋转型调节阀，它与阀门定位器配套使用，可实现比例调节。调节球阀阀体流道阻力小，流量系数大。1/4球面V形开口阀芯提供近似等百分比流量特性。并具有剪切功能可控制带有纤维和颗粒的粘性介质。调节球阀配用气动活塞式执行机构输出力巨大，动作灵敏，并采用转角直接指示和反馈，广泛应用于石油，化工，造纸，冶金，污水处理等生产部门的气体，蒸汽，液体输送管道中介质流量调节和切断，以达到生产过程按一定的规范进行。

Pneumatic piston V-type regulating ball valve (referred to as regulating ball valve) is a rotary regulating valve that is used in conjunction with a valve positioner to achieve proportional adjustment. Adjust the ball valve body to reduce flow resistance and increase flow coefficient. The 1/4 spherical V-shaped valve core provides approximately equal percentage flow characteristics. And it has shear function to control viscous media with fibers and particles. The regulating ball valve is equipped with a pneumatic piston actuator, which has a huge output force, sensitive action, and uses angle direct indication and feedback. It is widely used in gas, steam, and liquid transportation pipelines in production departments such as petroleum, chemical, papermaking, metallurgy, and sewage treatment to regulate and cut off the medium flow rate, in order to achieve production processes according to certain specifications.

阀体 Valve body

型式：直通型铸造球阀
阀尺寸：DN25~300
额定压力：PN16、PN40、PN63、PN100
连接形式：对夹式(DN25~50)、法兰式(DN65~300)
法兰标准：钢制法兰按GB9113-2000, JB/T-94
密封面形式：PN16为凸面　PN40、63为凹面
法兰端面距：按GB12221-89
材料：ZG230-450、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti
结构形式：按阀芯是否偏心分(见图)：无偏心V形球阀、偏心V形球阀
　　按密封圈材料分：增强聚四氟乙烯软密封(-20℃~+180℃)
　　对位聚苯软密封(-20℃~+300℃)
　　金属堆司太莱合金硬密封(-40℃~+450℃)
　　按阀体结构分：夹套型、夹套保温型、夹套载热体接口Rp3/4
压盖型式：压板式
填料：V型聚四氟乙烯填料，柔性石墨填料
垫片：型式：齿型和平型；材料：F4/改性F4，不锈钢+石墨

Type: Straight through cast ball valve
Valve size: DN25~300
Rated pressure: PN16, PN40, PN63, Pn100
Connection type: clamp type (DN25~50), flange type (DN65~300)
Flange standard: Steel flanges according to GB9113-2000, JB/T-94
Sealing surface form: PN16 is convex, PN40 is concave, and 63 is concave
Flange end distance: according to GB12221-89
Materials: ZG230-450, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti
Structural form: Divided by whether the valve core is eccentric (see figure): non eccentric V-shaped ball valve, eccentric V-shaped ball valve
Classified by sealing ring material: reinforced polytetrafluoroethylene soft seal (-20 ℃~+180 ℃)
Para polystyrene soft seal (-20 ℃~+300 ℃)
Metal pile Stellite alloy hard seal (-40 ℃~+450 ℃)
Divided by valve body structure: jacket type, jacket insulation type, jacket heat transfer interface Rp3/4
Cover type: pressure plate type
Packing: V-shaped polytetrafluoroethylene packing, flexible graphite packing
Gasket: Type: tooth type and flat type; Material: F4/modified F4, stainless steel+graphite

阀内组件 Valve components

阀芯：1/4球面等百分比特性V型缺口阀芯
密封圈：球型密封面
材料：软密封 增强聚四氟乙烯/对位聚苯
　　硬密封 金属堆焊司太莱合金

Valve core: 1/4 spherical equal percentage characteristic V-shaped notch valve core
Sealing ring: spherical sealing surface
Material: Soft sealed reinforced polytetrafluoroethylene/para polystyrene
Hard sealed metal overlay with Stellite alloy

执行机构 Actuator

型式：气动活塞式执行机构(GTX系列)
阀作用：单作用(弹簧复位)气开式和气关式
　　双作用(双气缸)
供气压力：0.4~0.6MPa

Type: Pneumatic piston actuator (GTX series)
Valve function: single acting (spring reset) air open and air closed
Double acting (dual cylinder)
Gas supply pressure: 0.4~0.6MPa

阀作用(阀芯正装)Valve function (valve core assembly)

单作用(配单作用执行机构)
气关时，当气源故障时执行机构弹簧将阀打开
气开时，当气源故障时。执行机构弹簧将阀关闭
双作用(配双作用执行机构)

Single acting (equipped with a single acting actuator)
When the gas is turned off, the actuator spring will open the valve when the gas source fails
When the gas is turned on, if the gas source fails. The actuator spring closes the valve
Double acting (with dual acting actuator)

附件(根据要求配置)Attachment (dosage according to requirements)

定位器，空气过滤减压阀，手轮机构，限位开关，电磁阀，阀位传送器，继动器，保位阀，其它

Positioner, air filter pressure reducing valve, handwheel mechanism, limit switch,Electromagnetic valve, valve position transmitter, relay, holding valve, others

性能 Performance

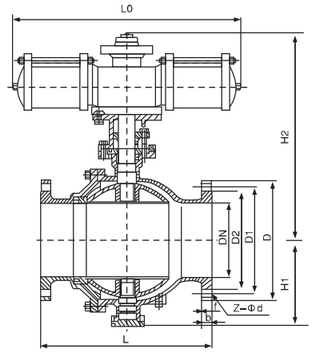
额定KV值：参照表1
可调范围：100:1
阀座泄漏率(对于额定Kv值%):
金属密封：小于0.01%或0.001%(ANSIB16.104-1976IV级)
软密封：小于0.00001%以下(ANSI B16.104-1976V级)
回差：小于全行程的1%(带定位器)
　　小于全行程的3%~5%(不带定位器)
基本误差：小于全行程的±1%(带定位器)
　　小于-全行程的±5%(不带定位---器F)
动作时间：参照表1
外形尺寸：参照表2
产品重量：参照表2
油漆颜色：调节阀的气动执行机构和阀的表面应涂漆，不锈钢和铜的阀可不涂漆。阀体上的箭头及文字涂红漆。用户指定色彩也可。

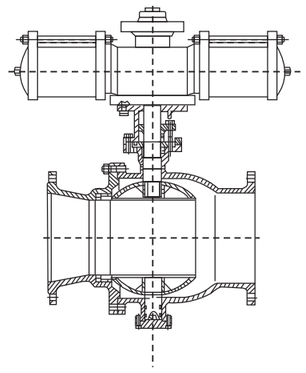
Rated KV value: refer to Table 1
Adjustable range: 100:1
Valve seat leakage rate (for rated Kv value%):
Metal seal: less than 0.01% or 0.001% (ANSI B16.104-1976 Grade IV)
Soft seal: less than 0.00001% (ANSI B16.104-1976V grade)
Return difference: less than 1% of the full stroke (with locator)
Less than 3%~5% of the full journey (without locator)
Basic error: less than ± 1% of the full stroke (with locator)
Less than ± 5% of the full stroke (without locator F)
Action time: Refer to Table 1
Dimensions: Refer to Table 2
Product weight: Refer to Table 2
Paint color: The pneumatic actuator of the regulating valve and the surface of the valve should be painted, while stainless steel and copper valves may not be painted. The arrows and text on the valve body are painted red. Users can also specify colors.

气动卸灰固定阀
Pneumatic Ash Unloading Fixed Valve

Q647MF/H







应用规范 Application Specification

1、设计制造按GB/T12237
2、结构长度按GB/T12221
3、连接法兰按JB/T79.1~79.4、GB/T9113.1~9113.4
4、阀门检查试验按GB/T13927、GB/T9092

1. Design and manufacture according to GB/T12237
2. The structural length shall be in accordance with GB/T12221
3. Connect flanges according to JB/T79.1~79.4, GB/T9113.1~9113.4
4. Valve inspection and testing shall be conducted in accordance with GB/T13927 and GB/T9092

缩径卸灰球阀的结构特点，除以前所述外，还具备以下特点：
The structural characteristics of the reduced diameter ash discharge ball valve, in addition to the previous ones, also have the following features:

1、重量相对较轻
2、当介质方向进入的时候，形成一种挤压的冲击力，介质由出口流通的时候，从而实现一种喷吹的效果。
备注：
由我司所改进的缩径卸灰球阀，比普通的卸灰阀耐高温、耐磨，具有高强度的优良性能。

1. Relatively light weight
2. When the direction of the medium enters, a squeezing impact force is formed, and when the medium flows through the outlet, a spraying effect is achieved.
Note:
The reduced diameter ash discharge ball valve improved by our company has excellent performance in high temperature resistance, wear resistance, and high strength compared to ordinary ash discharge valves.

主要外形和连接尺寸 Main dimensions and connection dimensions(mm)

DN	L	D	D1	D2		b		f		Z-Φd	H1	H2	L0	重量(kg) Weight
				系列1 Series 1	系列2 Series 2	系列1 Series 1	系列2 Series 2	系列1 Series 1	系列2 Series 2					
200	500	320	280	254	258	22	26	2	3	8xΦ17.5	255	730	812	300
250	600	375	335	309	312	24	28	2	3	12xΦ17.5	310	800	812	370
300	700	440	395	363	365	24	28	2	4	12xΦ22	370	852	812	440
350	800	490	445	413	415	26	30	2	4	12xΦ22	440	920	812	770
400	900	540	495	463	465	28	32	2	4	16xΦ22	490	1050	1020	880
500	1000	645	600	518	570	32	34	2	4	20xΦ22	610	1100	1020	1100

PNEUMATIC BUTTERFLY VALVE SERIES
气动蝶阀系列

口径：DN50~1200mm
压力：0.6、1.0、1.6、2.5MPa;150Lb、300Lb
结构：对夹式连接、法兰式连接
尺寸标准：国标、美标
阀体材质：铸铁、碳钢（WCB）、不锈钢（CF8、CF8M）
阀座材料：橡胶（X）聚四氟乙烯（F）
作用方式：双作用、单作用（弹簧复位）
控制方式：开关型、调节型
附件选择：电磁阀、定位器、限位开关
气源处理三联件、手动机构

Penumatic Soft Seal Butterfly Valve
Model:D67(4)1X(F、F4、J)
Bore:DN50~1200mm
Pressure:0.6、1.0、1.6、2.5MPa;150Lb、300Lb
Connection:Wafer ,Flanged
Dimension standard:GB,American Standard
Body Material ： Cast iron,Carbon Steel(WCB),
Stainless Steel（CF8、CF8M)
Seat Material:Rubber(X),PTFE(F)
Mode of Action:Double-acting
Single-acting(Spring Return)
Mode of Control:ON/OFF Type,Adjusting Type
Annex Choice:Solenoid Valve,POSITIONER,
Limit Switch,F.R.L.Manual Gear,



Kinko

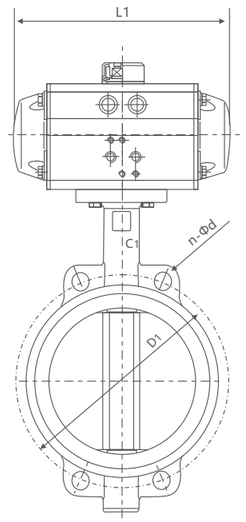
气动软密封中线蝶阀
Pneumatic Soft Seal Butterfly Valve

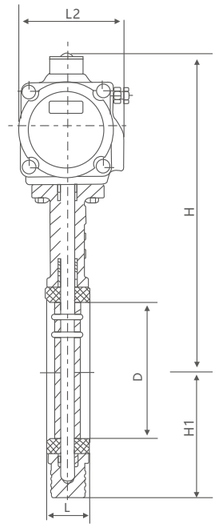
D671X(F、F4、J)-PN6.0、10

◆口径：DN50~1200mm
◆压力：0.6、1.0、1.6、2.5MPa;150Lb、300Lb
◆结构：对夹式连接、法兰式连接
◆尺寸标准：国标、美标
◆阀体材质：铸铁、碳钢（WCB）、不锈钢（CF8、CF8M）
◆阀座材料：橡胶（X）聚四氟乙烯（F）
◆作用方式：双作用、单作用（弹簧复位）
◆控制方式：开关型、调节型
◆附件选择：电磁阀、定位器、限位开关
气源处理三联件、手动机构

◆Size:DN50~1200mm
◆Pressure:0.6、1.0、1.6、2.5MPa;150Lb、300Lb
◆Connection:Wafer ,Flanged
◆Dimension standard:GB,American Standard
◆Body Material ： Cast iron,Carbon Steel(WCB),
Stainless Steel（CF8、CF8M)
◆Seat Material:Rubber(X),PTFE(F)
◆Mode of Action:Double-acting
◆Single-acting(Spring Return)
◆Mode of Control:ON/OFF Type,Adjusting Type
◆Annex Choice:Solenoid Valve,POSITIONER,
◆Limit Switch,F.R.L.Manual Gear,







主要外形及连接法兰尺寸D67X(F、F4、J)-PN6.0、10(0.6~1.0MPa) Overview Dimension(mm)

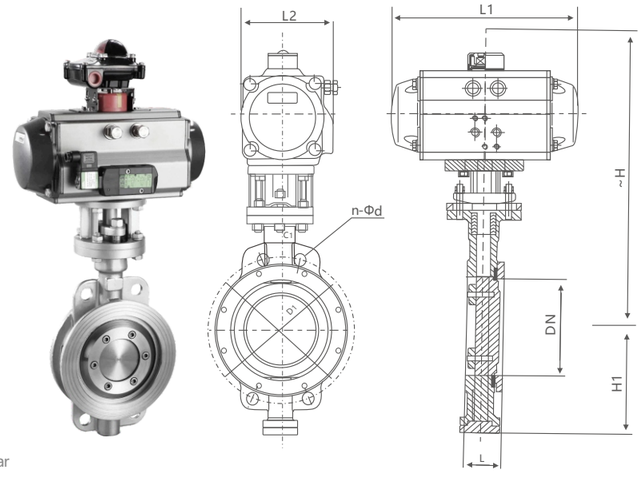
公称通径 Nominal diameter DN	外形尺寸 Dimension					连接尺寸 Connecting Size			执行器型号 Actuator Model
	L	L1	L2	~H	H1	D	D1	n-Φd	
50	42	141/159	71/83	269/281	68	52.9	120	4-23	AT050D/AT063S
65	44.7	159/211	83/95	283/303	75	64.5	136.2	4-26.5	AT063D/AT075S
80	45.2	159/211	83/107	289/309	93	78.8	160	8-18	AT063D/AT088S
100	52.1	211/269	95/123	320/338	104	10.4	185	4-24.5	AT075D/AT100S
125	54.4	248/269	107/123	351/366	118	123.3	215	4-23	AT088D/AT100S
150	55.8	269/345	123/152	380/405	133	155.6	238	4-25	AT100D/AT125S
200	60.6	345/409	152/172	435/477	165	202.5	295	4-25	AT125D/AT145S
250	65.6	409/438	172/187	509/552	197	250.5	357	4-29	AT145D/AT160S
300	76.5	438/550	187/215	597/622	224	301.8	407	4-29	AT160D/AT190S
350	76.5	550/600	215/240	653/688	267	333.3	467	4-30	AT190D/AT210S
400	86.5	550/600	215/262	720/787	309	389.6	515	4-30	AT190D/AT240S
450	105.6	600/633	240/262	772/858	328	440.51	565	4-30	AT210D/AT240S
500	131.8	633/730	262/330	867/1004	361	491.5	620	4-33	AT240D/AT270S
600	152	730/1700	330/-	998/1220	459	592.5	725	4-36	AT270D/AW25S
700	163	1320/1970	-/-	1116/1282	520	695	840	4-36	AW25/AW28S
800	188	1430/2700	-/-	1330/1007	591	794.7	950	4-39	AW28/AW35S

注：数据XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。
注：根据不同的阀门扭矩、使用介质选配的执行器型号可能有所不同，相关尺寸随之变化。
Note：Date XXX/XXX represent respectively the double-acting/single-acting type(spring reposition)of pneumatic actuator
Note：The reative sizes are subject to change responding to the difference in valve torque,medium and actuator model.

气动对夹式三偏心蝶阀
Pneumatic Tri-eccentric butterfly valve

D673H（F、Y)

- 口径：DN40~1200mm
- 压力：0.6、1.0、1.6、2.5、4.0MPa;150Lb、300Lb
- 尺寸标准：国标、美标
- 连接方式：对夹式连接
- 阀体材质：铸铁、碳钢(WCB)、不锈钢（CF8、CF8M、CF3M）
- 阀座材料：金属密封（H、Y)、聚四氟乙烯（F）
- 作用方式：双作用、单作用（弹簧复位）
- 控制方式：开关型、调节型
- 附件选择：电磁阀、定位器、限位开关 气源处理三联件、手动机构



- Size: DN40-1200 mm
- Pressure: 0.6, 1.0, 1.6, 2.5, 4.0MPa;150 Lb, 300 Lb
- Size standard: GB standard, American standard
- Connection: Wafer connection
- Material of valve body: Cast iron, Carbon steel (WCB), Stainless steel (CF8, CF8M, CF3M)
- Seat material: metal seal (H, Y), PTFE (F)
- Action mode: Double action, Single action (Spring Return)
- Control mode: ON/OFF type, Adjusting type
- Accessories: Solenoid valve, Positioner, Limit switch ,AFR, Manual Gear

主要外形及连接法兰尺寸D673H(F、Y)-PN16.(1.6MPa) Overview Dimension(mm)

公称通径 Nominal diameter DN	外形尺寸 Dimension					连接尺寸Connecting Size		执行器型号 Actuator Model
	L	L1	L2	~H	H1	D1	n-Φd	
50	43	159/211	83/95	277/205	65	125	4-18	AT063D/AT0075S
65	46	211/248	95/107	287/315	75	145	4-18	AT075D/AT088S
80	46	248/269	107/123	365/375	85	160	8-18	AT088D/AT100S
100	52	269/315	123/141	420/436	130	180	8-18	AT100D/AT115S
125	56	315/345	141/152	436/462	175	210	8-18	AT115D/AT125S
150	56	345/409	152/172	466/543	190	240	8-22	AT125D/AT145S
200	61	409/438	172/187	593/665	215	295	12-22	AT145D/AT165S
250	68	438/559	187/215	682/752	265	355	12-26	AT160D/AT190S
300	78	550/600	215/240	725/772	305	410	12-26	AT190D/AT210S
350	78	600/633	240/262	832/880	340	470	16-26	AT190D/AT240S
400	102	633/730	262/330	862/968	360	525	16-26	AT210D/AT240S
450	114	633	262	945/1005	400	585	16-30	AT240D/AT270S
500	127	730	300	1058/1060	430	650	20-33	AT270D/AW25S
600	154	1320/1970	440/480	1108/1195	190	770	20-36	AW25/AW28S
700	165	1430/2700	480/560	1170/1255	555	840	24-36	AW28/AW35S
800	190	1430/2700	480/560	1325/1365	620	950	24-39	AW28/AW35S

注：系列球阀结构长度及连接尺寸可根据JB/T79标准或用户要求设计制造。
注：数据XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。
注：根据不同的阀门扭矩、使用介质选配的执行器型号可能有所不同，相关尺寸随之变化。
注：以上执行器配置及数据均采用软密封（F）阀门，硬密封阀门的配置及数据请咨询本公司

Note: series ball valves can be designed and manufactured according to JB/T79 standard or user's requirement.
Note: data XXX/XXX are pneumatic actuator double acting/single acting (spring reset) respectively.
Note: according to the different torque of the valve, the actuator type may be different, the size will change.
Note: the above actuator configuration and data are soft seal (F) valve, hard seal valve configuration and data please consult our company

Kinko

气动塑料蝶阀
Pneumatic Plastic Butterfly Valve

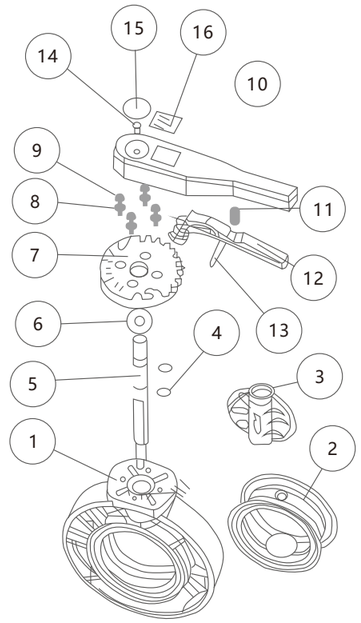
D671X-PN10

欧洲风格，外露牙盘，定位准确
超宽手柄，手柄与阀杆连接处镶嵌金属衬套
三叉副把，坚固耐用
碟板加强筋设计，保证管路系统安全
专利技术阀体与阀座整体镶嵌，保证低扭矩
更换更方便

European style, exposed teeth, accurate positioning
Ultra wide handle with metal bushing at stem joint
Three-pronged pair, sturdy and durable
Disc stiffeners are designed to ensure the safety of the piping system
Patented body and seat integral mount for low torque
Easier replacement

规格 Specifications	工作压力 Working Pressure		材质 Material		标准 Standard	
DN50-DN200(2"-8")	DN50-DN150 10Kg/cm2	Dn200 6Kg/cm2	PVC,CPVC,PPG	FRPP,PPH, PPR,ABS,PE	国标GB 德标DIN 美标AMSL 日标JIS	台湾地区 CNS

No.	PARTS	MATERIAL	QTY
1	BODY阀体	PVC,CPVC,PPG,PPH	1
2	SEAT SEAL 阀座	EPDM FPM	1
3	DISC 阀板	PVC,CPVC,PPG,PPH	1
4	O-RING O型环	EPDM,FPM	2
5	STEM 阀杆	STEEL,304,316	1
6	BEAR 挡块	ABS	1
7	PLATE 方位盘	ABS	1
8	SCREW 螺钉	STEEL	24
9	CAP 螺钉护盖	ABS	4
10	HANDLE 手柄	ABS	1
11	SPRING 弹簧	304	1
12	LEVER 副把	ABS	1
13	SET PIN 稍钉	STEEL	1
14	BOLT 螺栓	STEEL	1
15	MARK CAP 商标盖	ABS	1
16	LOGO 规格标牌PLATE	ABS	1

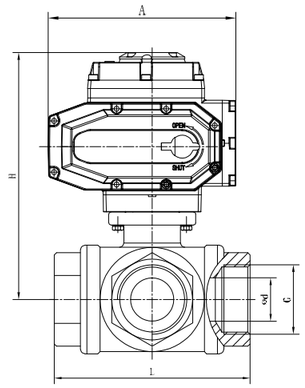


三通电动螺纹球阀
3-Way Electrical thread ball valve

Q914（5）F-16P/R

◆公称直径:DN15-DN50
◆压力范围:≤1000 psi(6.9 mpa)
◆介质温度:-20℃~ + 180℃
◆环境温度:-20℃~ + 60℃
◆阀体材料:不锈钢、铸钢
◆密封:聚四氟乙烯
◆执行机构:铝合金
◆控制电压：DC24V,AC24V,AC220V,AC380V.
◆控制功能：开关型，调节型
◆标准:L型,T型
◆标准:Rp(BSP);Rc(BSPT);NPT
◆适用介质:水、气、油、酸、碱等





◆Nominal diameter：DN15-DN50
◆Pressure range：≤1000PSI （6.9Mpa)
◆Medium Temp：-20℃~+180℃
◆Environment Temp：-20℃~+60℃
◆Body material：Stainless steel、Cast steel
◆Sealing:PTFE
◆Body of actuator：Aluminium alloy
◆Control Voltage: DC24V,AC24V,AC220V,AC380V.
◆Control feature: ON-OFF Type,Intelligent regulating type.
◆Standard：L-type、T-type
◆Standard：Rp(BSP) ;Rc(BSPT); NPT
◆Applicable medium: water, gas, oil, acid, alkali, etc

外形连接尺寸 Overview Dimension(mm)

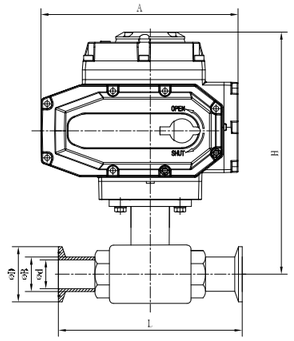
型号Model(G)	d	L	A	H	执行器Actuator
1/2"	10	68	160	144	KK-05
3/4"	15	78	160	154	KK-05
1"	18	86	160	164	KK-05
1-1/4"	25	111	160	178	KK-05
1-1/2"	32	126	196	203	KK-10
2"	40	143	196	225	KK-10
2-1/2"	50	200	255	290	KK-20

电动卫生级球阀
Sanitary Electrical ball valve

Q981F-10P/R

◆公称直径：1/2"~4"
◆压力范围：0 - 1.0 MPa
◆介质温度：-20℃~+180℃
◆环境温度：-20℃~+60℃
◆阀体材质：不锈钢
◆密封：聚四氟乙烯
◆执行机构：铝合金
◆控制电压：DC24V,AC24V,AC220V,AC380V.
◆控制功能：开关型，调节型
◆标准：DIN,ISO,SMS,3A,IDF
◆适用介质：水、气、油、酸、碱等





◆Nominal diameter: 1/2"~4"
◆Pressure range: 0-1.0Mpa
◆Medium Temp: -20℃~+180℃
◆Environment Temp: -20℃~+60℃
◆Body material: Stainless steel
◆Sealing: PTFE
◆Body of actuator: Aluminium alloy
◆Control Voltage: DC24V,AC24V,AC220V,AC380V.
◆Control feature: ON-OFF Type,Intelligent regulating type.
◆Standard: DIN,ISO,SMS,3A,IDF
◆Applicable medium: water, gas, oil, acid, alkali, etc

外形连接尺寸 Overview Dimension(mm)

规格ISO(B)	d	D	L	A	H	执行器Actuator
Φ19	16	50.5	101	160	173	KK-05
Φ25	21	50.5	117	160	178	KK-05
Φ32	29	50.5	125	160	185	KK-05
Φ38	35	50.5	140	160	194	KK-05
Φ45	42	64	155	160	216	KK-05
Φ61	47	64	165	196	235	KK-10
Φ57	53	77.5	170	196	240	KK-10
Φ63	59	77.5	176	196	253	KK-10
Φ76	72	91	220	196	260	KK-10
Φ89	85	106	240	196	270	KK-10
Φ102	97	119	270	255	286	KK-20
Φ114	108	130	320	255	297	KK-20
Φ133	125	145	400	255	314	KK-40
Φ159	150	172	480	255	342	KK-40

备注：根据不同的阀门扭矩，不同的气源压力及不同的实际工况，选择相匹配的执行器其相关外形尺寸也随之变化
Note: Depending on the valve torque, different air pressure and different physical conditions, choose to match its associated actuator dimensions also changes

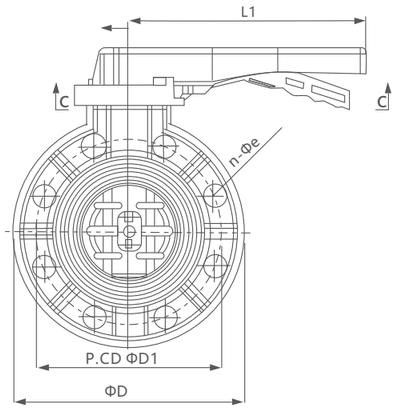
气动塑料蝶阀
Pneumatic Plastic Butterfly Valve

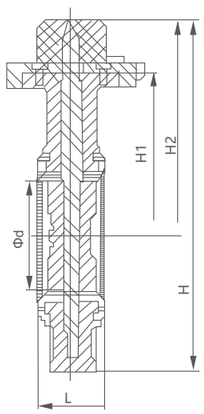
D671X-PN10

超低扭矩　美观　高强度　耐腐蚀　长寿命

Low torque aesthetics, high strength, corrosion resistance and long life







手柄蝶阀尺寸表 Dimensions of handle butterfly valve

SIZE	DN	∅D	P.C.D.∅D.1			∅d	L	∅1	L1	W	H1	H2	H	n-∅e			PSI	Mpa
			DIN	ANSI	JIS									DIN	JNS	JIS		
2"	65	160	160	121	120	48	43	124	190	55	100	143	223	4-19	4-19	4-19	150	1
2½"	65	180	180	140	140	63	46	124	190	55	112	155	245	4-19	4-19	4-19	150	1
3"	80	196	196	152	150	78	49	124	240	55	120	172	270	8-19	4-19	8-19	150	1
4"	100	228	228	191	175	98	54	124	240	55	140	194	380	8-19	8-19	8-19	150	1
5"	125	258	258	216	210	122	64	170	310	72	168	223	352	8-19	8-19	8-19	150	1
6"	150	287	287	241	240	146	70	170	310	72	181	239	382	8-23	8-23	8-23	150	1
8"	200	344	344	298	290	199	88	170	310	72	215	280	452	8-23	8-23	12-23	100	0.6

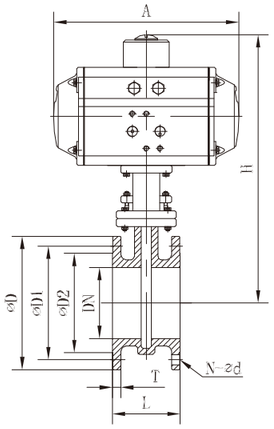
气动法兰蝶阀
Pneumatic Flange Butterfly Valves

D641X-16C

◆介质温度：-20℃～+150℃
◆环境温度:-20℃～+60℃
◆公称压力:0~1.6MPa
◆控制气体：中性气体，空气
◆气源压力：0.3~0.8MPa
◆规格：DN50-DN600
◆阀体材质：WCB CF8 CF8M
◆阀板材质：WCB Cf8 CF8M
◆阀座材质：EPDM NBR FPM
◆阀杆材质:304
◆密封圈材质:NBR

◆Medium temperature: - 20 ℃ ~ + 150 ℃
◆Ambient temperature: - 20 ℃ ~ + 60 ℃
◆Nominal pressure: 0 ~ 1.6 MPa
◆Control gas, gas, air
◆Air pressure: 0.3 ~ 0.8 MPa
◆Specification:DN50~DN600
◆The valve body material: WCB CF8 CF8M
◆The valve material: WCB Cf8 CF8M
◆The seat material: EPDM, NBR FPM
◆Stem material: 304
◆Sealing ring material: NBR





外观连接尺寸 Overview dimension (mm)

型 号 model	L	D	D1	D2	T	A	H	N-d	执行器 Actuator
DN50	108	165	125	102	20	214	320	4-18	AT75
DN65	112	185	145	122	20	214	323	4-18	AT75
DN80	114	200	160	133	22	214	335	8-18	AT75
DN100	127	220	180	158	24	252	390	8-18	AT88
DN125	140	250	210	184	26	270	408	8-18	AT100
DN150	140	285	240	212	28	316	458	8-22	AT115
DN200	152	340	295	268	28	354	512	12-23	AT125
DN250	165	405	335	320	30	418	570	12-26	AT145
DN300	178	460	410	370	30	450	640	16-26	AT160
DN350	190	520	470	430	30	518	700	16-23	AT190
DN400	216	580	525	484	32	530	755	16-30	AT210
DN450	222	640	585	532	32	660	772	16-30	AT240
DN500	229	715	650	585	34	730	852	16-26	AT270
DN600	267	840	770	685	36	880	930	16-30	AT300

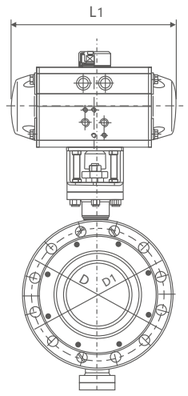
气动法兰三偏心蝶阀（硬密封、四氟密封）
Pneumatic Flange Triple Eccentric Butterfly Valve

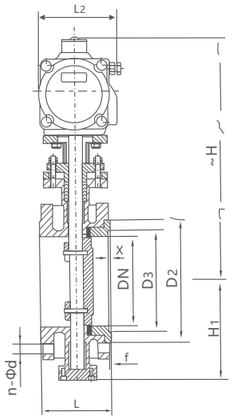
D643(H、Y、F)-16(1.6Mpa)

◆质量保证：ISO9001
◆设计：参照GB12338，MSS - SP - 68
◆结构体长度：参照GB12221 - 89
◆法兰标准：JB/T79.1 - 94；ANSI；JIS；DIN及其它标准
◆测试标准：GB/T4213 - 92，API598

◆Quality assurance: ISO9001
◆Design: Refer to GB12338, MSS-SP-68
◆Structure length: refer to GB12221 - 89
◆Flange standards: JB/T79.1-94; ANSI; JIS; DIN and other standards
◆Test standard: GB/T4213-92, API598







主要外形及连接尺寸D643(H、Y、F)-16(1.6Mpa)(mm)

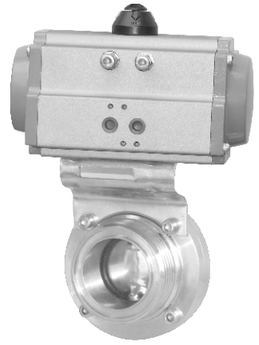
公称通径 DN	外形尺寸 Dimension					连接尺寸Connecting Size				
	L	L1	L2	H	H1	D	D1	D2	f	n-Φd
50	108	164/214	75/91	277/205	65	165	125	99	3	4-Φ18
65	112	164/214	75/91	287/315	75	185	145	118	3	4-Φ18
80	114	190/246	91/101	365/375	85	200	160	132	3	8-Φ18
100	127	210/295	101/112	420/436	130	220	180	156	3	8-Φ18
125	140	247/398	112/139	436/462	175	250	210	184	3	8-Φ18
150	140	308/478	139/176	466/543	190	285	240	211	3	8-Φ22
200	152	378/724	176/228	593/665	215	340	295	266	3	12-Φ22
250	165	432/928	206/275	682/752	265	405	355	319	3	12-Φ26
300	178	524/928	228/275	725/772	305	460	410	370	4	12-Φ26
350	190	648/1033	275/324	832/880	340	520	480	429	4	16-Φ26
400	216	648/1129	275/380	862/968	360	580	525	480	4	16-Φ30
450	222	715/1845	324/527	945/1005	400	640	585	548	4	20-Φ30
500	229	795/1845	380/527	1058/1060	430	715	650	509	4	20-Φ33
600	267	795/2605	380/545	1108/1195	490	840	770	720	5	20-Φ36
700	292	1380/2605	1170/1255	1170/1255	555	910	840	794	5	24-Φ36
800	318	1860/2605	1325/1365	1325/1365	520	1025	950	901	5	24-Φ48

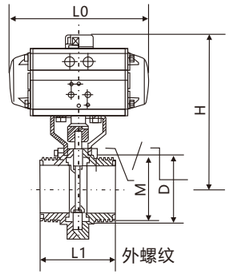
卫生级气动蝶阀
Sanitary pneumatic butterfly valve

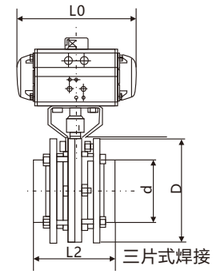
D681X-10P/R

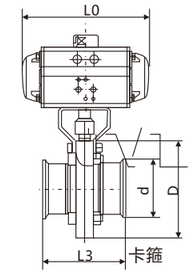
◆公称直径: DN15 - DN100
◆压力范围: 0-10bar
◆工作温度: -20℃~ + 120℃
◆CSM密封:三元乙丙橡胶、硅橡胶
◆阀体: SS304;SS316L
◆阀瓣: SS304;SS316L
◆特点: 双向密封零泄漏，蝶板外圆球形设计，无销钉结构
◆介质: 饮用水、高纯度水,海水、空气
◆控制压力: 3bar-8bar
◆连接标准: 3A、DIN、ISO、SMS

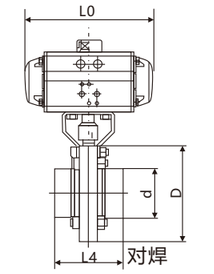
◆Nominal diameter：DN15-DN100
◆Pressure range：0-10bar
◆Working Temp：-20℃~+120℃
◆Sealing：EPDM,CSM,Sllicon rubber
◆Body：SS304、SS316L
◆Disc：SS304、SS316L
◆Feature：Two-way sealing with zero leakage, outer spherical design of butterfly plate, no pin structure
◆Medium：drinking water、high purity water、seawater、air
◆Control pressure: 3bar-8bar
◆Connection standard: 3A, DIN, ISO, SMS











外形连接尺寸 Overview Dimension(mm)

公称通径 (DN)	外螺纹连接尺寸 External thread connection dimensions			三片式连接尺寸 3PC connection dimensions			卡箍连接尺寸 Tri-clamp connection dimensions			对焊连接尺寸 Welded connection dimensions			L0	H	执行器型号 Actuator Model
	L1	D	M	L2	D	d	L3	D	d	L4	D	d			
15	66	78	RD34X1/8	100	78	19.05	66	78	50.5	66	78	19.05	141/141	157/557	JATD52/JATS52
20	66	78	RD44X1/6	100	78	25.4	66	78	50.5	66	78	25.4	141/141	157/557	JATD52/JATS52
25	66	78	RD52X1/6	100	78	31.8	66	78	50.5	66	78	31.8	141/141	157/557	JATD52/JATS52
32	70	86	RD58X1/6	100	86	38.1	70	86	50.5	70	86	38.1	141/141	157/557	JATD52/JATS52
40	76	102	RD65X1/6	104	102	50.8	76	102	50.5	76	102	50.8	141/141	171/180	JATD52/JATS63
50	80	115	RD78X1/6	112	115	63.5	80	115	64	80	115	63.5	141/141	169/169	JATD63/JATS63
65	84	128	RD95X1/6	112	128	76.1	84	128	91	84	128	76.1	159/211	194/208	JATD63/JATS75
80	90	139	RD110X1/4	120	139	88.9	90	139	106	90	139	88.9	159/248	200/224	JATD63/JATS83
100	104	159	RD130X1/4	128	156	101.6	102	156	119	102	156	101.6	211/248	220/242	JATD75/JATS92

备注：根据不同的阀门扭矩，不同的气源压力及不同的实际工况，选择相匹配的执行器其相关外形尺寸也随之变化
Note: Depending on the valve torque, different air pressure and different physical conditions, choose to match its associated actuator dimensions also changes

气动多层次调节蝶阀
Pneumatic Flange Butterfly Valves



气动多层次调节蝶阀是一种旋转型调节阀，它与阀门定位器配套作用，可实现比例调节。调节蝶阀阀体流道阻力小，流量系数大，调节蝶阀配用多弹簧气动薄膜式执行机构或气动活塞式执行机构特别适用于大口径、大流量、浓浊浆液或锅炉窑烟道气控制。

Pneumatic multi-level regulating butterfly valve is a rotary regulating valve that works in conjunction with a valve positioner to achieve proportional adjustment. The flow resistance of the butterfly valve body is small, and the flow coefficient is large. The butterfly valve is equipped with a multi spring pneumatic diaphragm actuator or pneumatic piston actuator, which is particularly suitable for controlling large-diameter, high flow, thick and turbid slurry or boiler kiln flue gas.

阀体 Valve body

型式：铸造或钢板焊接
阀尺寸 ： DN50~1000
额定压力：PN6
连接形式：对夹式，法兰式
法兰标准：钢制法兰按GB9113-2000,JB/T79-94
材料：ZG230-450，ZG1Cr8Ni9T，ZG1Cr18Ni12M02T
结构形式：斜板式(无偏心，见图)
压盖型式：压板式
填料：V型聚四氟乙烯填料，柔性石墨填料
垫片：型式，齿型和平型；材料，F4/改性F4，不锈钢+石墨

Type: Casting or steel plate welding
Valve size: DN50~1000
Rated pressure: Pn6
Connection type: clamp type, flange type
Flange standard: Steel flanges according to GB9113-2000, JB/T79-94
Materials: ZG230-450, ZG1Cr8Ni9T, ZG1Cr18Ni12M02T
Structural form: inclined plate (no eccentricity, see figure)
Cover type: pressure plate type
Packing: V-shaped polytetrafluoroethylene packing, flexible graphite packing
Gasket: Type, tooth profile and flat profile; Material, F4/modified F4, stainless steel+graphite

执行机构 Actuator

型式：多弹簧式薄膜执行机构
ZHA-22,ZHA-23
ZHA-34,ZHA-45
阀作用：气关式，气开式
转角 ： 600
膜片材料：丁腈橡胶夹增强涤纶织物
弹簧量程：20~100KPa,40~200KPa
20~60KPa，60~100KPa
供气压力：0.14~0.25MPa
环境温度：-30℃~+70℃
型式：气动活塞式执行机构(ZSC-45)
阀作用：双作用(双气缸)
转角：600
供气压力：0.4~0.6 MPa
信号接口：内螺纹M16×15
环境温度：-20℃+90℃"

Type: Multi spring thin film actuator
ZHA-22,ZHA-23
ZHA-34,ZHA-45
Valve function: gas closed, gas open
Corner: 600
Membrane material: Nitrile rubber clip reinforced polyester fabric
Spring range: 20~100KPa, 40~200KPa
20~60KPa，60~100KPa
Gas supply pressure: 0.14-0.25MPa
Environmental temperature: -30 ℃~+70 ℃
Type: Pneumatic piston actuator (ZSC-45)
Valve function: double acting (double cylinder)
Corner: 600
Gas supply pressure: 0.4~0.6 MPa
Signal interface: Internal thread M16 × 15
Environmental temperature: -20 ℃+90 ℃

阀内组件 Valve components

阀　板：斜度密封面
　　阀板关闭位置时有100初始角
阀　座：与阀体相同

1.Valve plate: inclined sealing surface
2.When the valve plate is in the closed position, there is an initial angle of 100 degrees
3.Seat: Same as valve body

阀作用（以气动薄膜调节蝶向为例）
Valve function (taking pneumatic diaphragm adjustment butterfly direction as an example)

气关式FO(配气关式支架)
当气源故障时，执行机构弹簧将阀打开
气关式FC(配气开式支架)
当气源故障时，执行机构弹簧将阀关闭

Air shut-off FO (valve shut-off bracket)
When the gas source fails, the actuator spring opens the valve
Gas closed FC (gas distribution open bracket)
When the gas source fails, the actuator spring closes the valve

附件（根据要求配量）Attachment (dosage according to requirements)

定位器，空气过滤减压阀，手轮机构，限位开关，电磁阀，阀位传送器，继动器，保位阀，其它

Positioner, air filter pressure reducing valve, handwheel mechanism, limit switch,Electromagnetic valve, valve position transmitter, relay, holding valve, others

性能 Performance

额定Kv值：参照表1
流量特性：近似等百分比
可调范围：30:1
阀座泄漏率(对于额定Kv值%):
金属密封：小于0.5%(ANSIB16.104-197611级)
　　小于0.01%或0.001%
　　(ANSI B16.104-19761V级)
回差：小于全行程的1%(带定位器)
　　小于全行程的3%~5%(不带定位器)
基本误差：小于全行程的±1%(带定位器)
　　小于全行程的±5%(不带定位器)
外形尺寸：参照表2
产品重量：参照表2
油漆颜色：调节阀的气动执行机构和阀的表面应涂漆，不锈钢和铜的阀可不涂漆。
　　阀体上的箭头及文字涂红漆。
　　用户指定色彩也可。

Rated Kv value: refer to Table 1
Traffic characteristics: Approximately equal percentage
Adjustable range: 30:1
Valve seat leakage rate (for rated Kv value%):
Metal seal: less than 0.5% (ANSI B16.104-197611 grade)
Less than 0.01% or 0.001%
(ANSI B16.104-19761V Class)
Return difference: less than 1% of the full stroke (with locator)
Less than 3%~5% of the full journey (without locator)
Basic error: less than ± 1% of the full stroke (with locator)
Less than ± 5% of the full travel (without locator)
Dimensions: Refer to Table 2
Product weight: Refer to Table 2
Paint color: The pneumatic actuator of the regulating valve and the surface of the valve should be painted, while stainless steel and copper valves may not be painted. The arrows and text on the valve body are painted red.
Users can also specify colors.

Kinko

ELECTRIC BALL VALVE SERIES
电动球阀系列

公称直径：DN15-DN100
压力范围：≤1000 PSI(6.9 MPa)
介质温度：-20℃~+180℃
环境温度：-20℃~+60℃
阀体材质：不锈钢
密封：聚四氟乙烯
执行机构：铝合金
控制电压：DC24V,AC24V,AC220V,AC380V.
控制功能：开关型，调节型
标准：Rp(BSP);Rc(BSPT);NPT
适用介质：水、气、油、酸、碱等

Nominal diameter: DN15-DN100
Pressure range: ≤1000PSI(6.9Mpa)
Medium Temp: -20℃~+180℃
Environment Temp: -20℃~+60℃
Body material: Stainless steel
Sealing: PTFE
Body of actuator: Aluminium alloy
Control Voltage: DC24V,AC24V,AC220V,AC380V.
Control feature: ON-OFF Type,Intelligent regulating type.
Standard: Rp(BSP) ;Rc(BSPT); NPT
Applicable medium: water, gas, oil, acid, alkali, etc



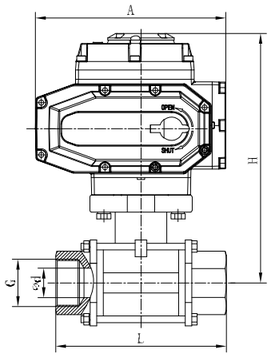
三片式电动螺纹球阀
3PC Electrical threaded ball valve

Q911F-16P/R

◆公称直径：DN15-DN100
◆压力范围：≤1000 PSI(6.9 MPa)
◆介质温度：-20℃~+180℃
◆环境温度：-20℃~+60℃
◆阀体材质：不锈钢
◆密封：聚四氟乙烯
◆执行机构：铝合金
◆控制电压：DC24V,AC24V,AC220V,AC380V.
◆控制功能：开关型，调节型
◆标准：Rp(BSP);Rc(BSPT);NPT
◆适用介质：水、气、油、酸、碱等

◆Nominal diameter: DN15-DN100
◆Pressure range: ≤1000PSI(6.9Mpa)
◆Medium Temp: -20℃~+180℃
◆Environment Temp: -20℃~+60℃
◆Body material: Stainless steel
◆Sealing: PTFE
◆Body of actuator: Aluminium alloy
◆Control Voltage: DC24V,AC24V,AC220V,AC380V.
◆Control feature: ON-OFF Type,Intelligent regulating type.
◆Standard: Rp(BSP) ;Rc(BSPT); NPT
◆Applicable medium: water, gas, oil, acid, alkali, etc





外形连接尺寸 Overview Dimension(mm)

型号Model(G)	d	L	A	H	执行器Actuator
1/2"	15	75	160	147.5	KK-05
3/4"	20	80	160	151.5	KK-05
1"	25	90	160	161.5	KK-05
1-1/4"	32	110	160	166.5	KK-05
1-1/2"	38	120	160	179.5	KK-05
2"	50	140	196	232	KK-10
2-1/2"	65	185	196	247	KK-10
3"	78	205	255	294	KK-20
4"	98	240	255	312	KK-20

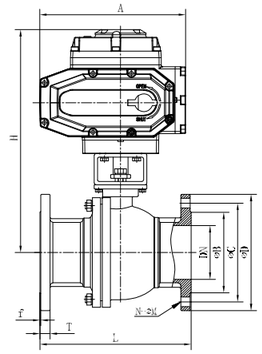
二片式电动法兰球阀
2PC Electrical flanged ball valve

Q941F-16P/R

◆公称直径：DN15-DN200
◆压力范围：1.6Mpa-6.4Mpa
◆介质温度：-20℃~+180℃
◆环境温度：-20℃~+60℃
◆阀体材料：不锈钢、铸钢
◆密封：聚四氟乙烯
◆执行机构：铝合金
◆控制电压：DC24V,AC24V,AC220V,AC380V.
◆控制功能：开关型，调节型
◆标准：GB、ANSI、DIN、JIS
◆适用介质：水、气、油、酸、碱等
◆法兰标准：JB、GB、ISO、HG、ASME、JIS等

◆Nominal diameter: DN15-DN200
◆Pressure range: 1.6Mpa-6.4Mpa
◆Medium Temp: -20℃~+180℃
◆Environment Temp: -20℃~+60℃
◆Body material: Stainless steel、Cast steel
◆Sealing: PTFE
◆Body of actuator: Aluminium alloy
◆Control Voltage: DC24V,AC24V,AC220V,AC380V.
◆Control feature: ON-OFF Type,Intelligent regulating type.
◆Standard: GB、ANSI、DIN、JIS
◆Applicable medium: water, gas, oil, acid, alkali, etc
◆Flange standards: JB, GB, ISO, HG, ASME, JIS, etc.





外形连接尺寸 Overview Dimension(mm)

型号 Model(G)	L	T	f	D	C	B	A	H	N-ΦM	执行器 Actuator
DN15	130	14	2	95	65	45	160	210	4-Φ14	KK-05
DN20	140	15	2	105	75	54	160	216	4-Φ14	KK-05
DN25	150	16	2	115	85	65	160	223	4-Φ14	KK-05
DN32	165	16	2	135	100	78	160	226	4-Φ18	KK-05
DN40	180	17	2	145	110	85	198	264	4-Φ18	KK-10
DN50	200	18	2	160	125	100	198	290	4-Φ18	KK-10
DN65	220	18	2	180	145	120	256	355	4-Φ18	KK-20
DN80	250	18	2	195	160	135	256	365	8-Φ18	KK-20
DN100	280	20	2	215	180	155	256	386	8-Φ18	KK-20
DN125	320	22	3	245	210	185	256	420	8-Φ18	KK-40
DN150	360	24	3	280	240	210	256	445	8-Φ22	KK-60
DN200	400	26	3	335	295	265	309	484	12-Φ22	KK100

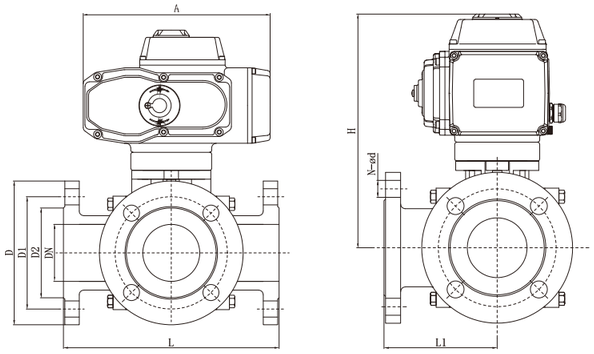
电动三通法兰球阀
Electric 3-way flange ball valve

Q944(5)F(N、P、H、Y)-PN16、25



- ◆公称直径：DN15-DN200
- ◆压力范围：1.6Mpa-2.5Mpa
- ◆介质温度：-20℃~ + 180℃
- ◆环境温度：-20℃~ + 60℃
- ◆阀体材料：不锈钢、铸钢
- ◆密封：聚四氟乙烯
- ◆执行机构：铝合金
- ◆控制压力：3-8bar
- ◆控制功能：双作用、单作用
- ◆标准：L型,T型
- ◆适用介质：水、气、油、酸、碱等
- ◆法兰标准：JB、GB、ISO、HG、ASME、JIS等

- ◆Nominal diameter：DN15-DN200
- ◆Pressure range：1.6Mpa-2.5Mpa
- ◆Medium Temp：-20℃~+180℃
- ◆Environment Temp：-20℃~+60℃
- ◆Body material：Stainless steel、Cast steel
- ◆Sealing:PTFE
- ◆Body of actuator：Aluminium alloy
- ◆Control pressure：3-8bar
- ◆Control feature：Double acting、Single acting
- ◆Standard：L-type、T-type
- ◆Applicable medium: water, gas, oil, acid, alkali, etc
- ◆Flange standards: JB, GB, ISO, HG, ASME, JIS, etc

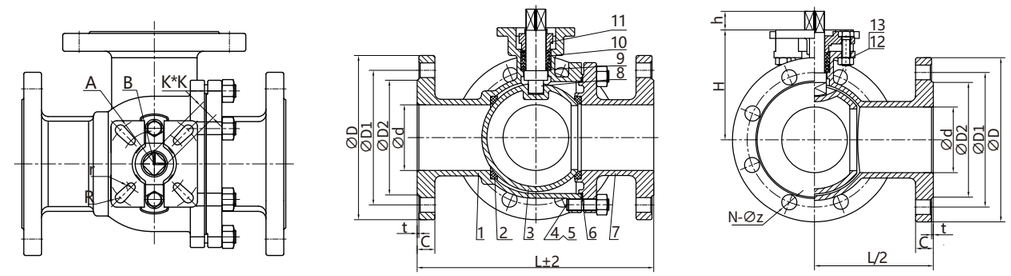


外形连接尺寸GB PN16 Overview Dimension(mm)

SIZE	L	L1	D2	D1	D	N-Φd	A	H	执行器Actuator
DN15	150	75	46	65	95	4-Φ14	165	200	KK-05
DN20	160	80	56	75	105	4-Φ14	165	210	KK-05
DN25	180	90	65	85	115	4-Φ14	212	240	KK-10
DN32	200	100	76	100	140	4-Φ18	212	250	KK-10
DN40	220	110	84	110	150	4-Φ18	259	310	KK-20
DN50	240	120	99	125	165	4-Φ18	259	320	KK-20
DN65	260	130	118	145	185	8-Φ18	259	335	KK-40
DN80	280	140	132	160	200	8-Φ18	259	365	KK-60
DN100	320	160	156	180	220	8-Φ18	284	420	KK-100
DN125	380	190	184	210	250	8-Φ18	284	440	KK-200
DN150	440	220	211	240	285	8-Φ22	284	470	KK-200
DN200	550	275	266	295	340	12-Φ22	500	700	KK-400

高平台L型三通球阀
Mechanical Department High Platform L type three-way ball valve

Q44F-16P



尺寸 Dimensions（化工部 Ministry of Chemical Industry）(mm)

SIZE	d	D	D1	D2	C	t	L	H	A	B	R	r	K*K	h	N-Φz
1"	25	115	85	65	18	2	180	70	70	/	3.5	/	11*11	12	4-Φ14
1¼"	32	140	100	78	18	2	200	80	70	/	4.5	/	11*11	12	4-Φ18
1½"	40	150	110	85	18	3	220	85	70	50	4.5	3.5	14*14	15	4-Φ18
2"	50	165	125	100	18	3	240	100	70	/	4.5	/	17*17	18	4-Φ18
2½"	65	185	145	120	18	3	260	110	102	70	5.5	4.5	17*17	18	6-Φ18
3"	80	200	160	135	20	3	280	135	102	70	5.5	4.5	19*19	20	8-Φ18
4"	100	220	180	155	20	3	320	150	102	70	5.5	4.5	22*22	23	8-Φ18

尺寸 Dimensions（机械部 Machinery Department）(mm)

SIZE	d	D	D1	D2	C	t	L	H	A	B	R	r	K*K	h	N-Φ z
1"	25	115	85	65	14	2	180	62	70	/	3.5	/	11*11	12	4-Φ14
1¼"	32	135	100	78	16	2	200	72	70	/	4.5	/	11*11	12	4-Φ18
1½"	40	145	110	85	16	3	220	78	70	/	4.5	/	14*14	15	4-Φ18
2"	50	160	125	100	16	3	240	86	70	/	4.5	/	17*17	18	4-Φ18
2½"	65	180	145	120	18	3	260	102	102	70	5.5	4.5	17*17	18	4-Φ18
3"	80	195	160	135	20	3	280	115	102	70	5.5	4.5	19*19	20	8-Φ18
4"	100	215	180	155	20	3	320	137	102	70	5.5	4.5	22*22	23	8-Φ18

ELECTRIC BUTTERFLY VALVE SERIES
电动蝶阀系列

公称直径:DN40-DN300
压力范围:0-1.0MPa
工作温度:-20℃~+160℃
阀体:灰色铸铁，球墨铸铁，铸钢、不锈钢
阀瓣:球墨铸铁，铸钢，不锈钢、镍合金
特点:双向密封零泄漏，无销钉结构
介质:饮用水、污水、高纯度水、海水、空气
密封:NBR,EPDM,FPM,聚四氟乙烯
控制电压：DC24V,AC24V,AC220V,AC380V.
控制功能：开关型，调节型

Nominal diameter：DN40-DN300
Pressure range：0-1.0Mpa
Working Temp：-20℃~+160℃
Body：gray cast-iron、ductile cast iron、Cast steel、Stainless steel
Disc：ductile cast iron、Cast steel、
Stainless steel、nickel alloy
Features: Two-way seal zero leakage, no pin structure
Medium：drinking water、sewage、high purity water、seawater、air
Sealing：NBR;EPDM;FPM,PTFE
Control Voltage: DC24V,AC24V,AC220V,AC380V.
Control feature: ON-OFF Type,Intelligent regulating type.



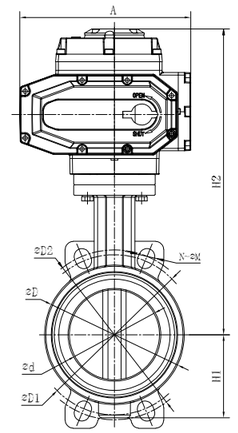
电动对夹蝶阀
Electrical wafer butterfly valve

D971X-16C

◆公称直径:DN40-DN300
◆压力范围:0-1.0MPa
◆工作温度:-20℃~+160℃
◆阀体:灰色铸铁，球墨铸铁，铸钢、不锈钢
◆阀瓣:球墨铸铁，铸钢，不锈钢、镍合金
◆特点:双向密封零泄漏，无销钉结构
◆介质:饮用水、污水、高纯度水、海水、空气
◆密封:NBR,EPDM,FPM,聚四氟乙烯
◆控制电压：DC24V,AC24V,AC220V,AC380V.
◆控制功能：开关型，调节型

◆Nominal diameter：DN40-DN300
◆Pressure range：0-1.0Mpa
◆Working Temp：-20℃~+160℃
◆Body：gray cast-iron、ductile cast iron、
Cast steel、Stainless steel
◆Disc：ductile cast iron、Cast steel、
Stainless steel、nickel alloy
◆Features: Two-way seal zero leakage, no pin structure
◆Medium：drinking water、sewage、
high purity water、seawater、air
◆Sealing：NBR;EPDM;FPM,PTFE
◆Control Voltage: DC24V,AC24V,AC220V,AC380V.
◆Control feature: ON-OFF Type,Intelligent regulating type.





电动执行器主要技术参数 Pneumatic Actuator Main Technical Parameters

电动执行器 Electrical actuators	型号Model	KK系列、OXMA系列、AOX系列
	控制电压Air Supply	DC24V,AC24V,AC220V,AC380V
	旋转角度Angle of rotary	0°~90°
	控制功能 Control feature	开关型，调节型ON-OFF Type,Intelligent regulating type.
	控制信号Control signal	电信号Electric signal：0~10mA 4mA~20mA 气信号Gas signal：0.02MPa~0.1MPa
	介质Medium	饮用水、污水、高纯度水、海水、空气 drinking water、sewage、high purity water、seawater、air
	工作温度Working temperature	-20℃~+80℃

外形连接尺寸 Overview Dimension(mm)

型号 Model	d	L	D	D1	D2	A	H1	H2	N-ΦM	执行器 Actuator
DN50	50.8	40.5	89	120	125	160	62	276.5	4-Φ18	KK-05
DN65	63.8	43.7	106	139	145	160	70	291.5	4-Φ18	KK-05
DN80	76.2	43.7	124	152	160	160	80	306.5	4-Φ19	KK-05
DN100	102	50	152	180	190.5	196	93	335	4-Φ19	KK-10
DN125	123	52	180	210	216	196	108	351	4-Φ23	KK-10
DN150	146.5	53.2	200	240	241.5	255	120	370	4-Φ23	KK-20
DN200	203	60	262	295	298.5	255	152	392	4-Φ23	KK-40
DN250	252	68	315	350	362	255	182	447	4-Φ26	KK-60
DN300	302	78	468	400	432	309	218	504	4-Φ26	KK-100

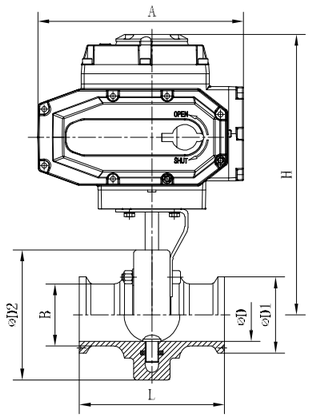
卫生级电动蝶阀
Sanitary Electrical butterfly valve

D981X-10P/R

- 公称直径: DN15 - DN100
- 压力范围: 0-10bar
- 工作温度: -20℃~ + 120℃
- CSM密封:三元乙丙橡胶、硅橡胶
- 阀体: SS304;SS316L
- 阀瓣: SS304;SS316L
- 特点: 双向密封零泄漏，蝶板外圆球形设计，无销钉结构
- 介质: 饮用水、高纯度水,海水、空气
- 控制电压：DC24V,AC24V,AC220V,AC380V.
- 控制功能：开关型，调节型
- 连接标准: 3A、DIN、ISO、SMS

- Nominal diameter：DN15-DN100
- Pressure range：0-10bar
- Working Temp：-20℃~+120℃
- Sealing：EPDM,CSM,SIlicon rubber
- Body：SS304、SS316L
- Disc：SS304、SS316L
- Feature：Two-way sealing with zero leakage, outer spherical design of butterfly plate, no pin structure
- Medium：drinking water、high purity water、seawater、air
- Control Voltage: DC24V,AC24V,AC220V,AC380V.
- Control feature: ON-OFF Type,Intelligent regulating type.
- Connection standard: 3A, DIN, ISO, SMS





外形连接尺寸 Overview Dimension(mm)

规格ISO(B)	D	D1	D2	L	A	H	执行器Actuator
Φ19	16	25.2	78	66	160	175.5	KK-05
Φ25	22	50.5	78	66	160	175.5	KK-05
Φ32	29	50.5	78	66	160	179.5	KK-05
Φ38	35	50.5	86	70	160	183.5	KK-05
Φ45	42	64	90	74	160	189.5	KK-05
Φ51	47	64	100	76	160	193.5	KK-05
Φ57	53	77.5	106	78	160	197.5	KK-05
Φ63	59	77.5	115	80	160	201.5	KK-05
Φ76	72	91	128	84	160	207.5	KK-05
Φ89	85	106	139	90	160	211.5	KK-05
Φ102	97	119	154	104	196	243	KK-10
Φ108	102	119	159	106	196	255	KK-10
Φ133	125	145	185	140	255	282	KK-20
Φ159	150	172	215	260	255	302	KK-20

备注：根据不同的阀门扭矩，不同的气源压力及不同的实际工况，选择相匹配的执行器其相关外形尺寸也随之变化
Note: Depending on the valve torque, different air pressure and different physical conditions, choose to match its associated actuator dimensions also changes

Kinko

PNEUMATIC CONTROL VALVE SERIES
气动调节阀系列

型号：ZJHP
口径：DN40~1200mm
压力：0.6、1.0、1.6、2.5、4.0MPa;150Lb、300Lb
尺寸标准：国标、美标
连接方式：对夹式连接
阀体材质：铸铁、碳钢(WCB)、不锈钢（CF8、CF8M、CF3M）
阀座材料：金属密封（H、Y)、聚四氟乙烯（F）
作用方式：双作用、单作用（弹簧复位）
控制方式：开关型、调节型
附件选择：电磁阀、定位器、限位开关 气源处理三联件、手动机构

Model: D673H (F, Y)
Size: DN40-1200 mm
Pressure: 0.6, 1.0, 1.6, 2.5, 4.0MPa;150 Lb, 300 Lb
Size standard: GB standard, American standard
Connection: Wafer connection
Material of valve body: Cast iron, Carbon steel (WCB), Stainless steel (CF8, CF8M, CF3M)
Seat material: metal seal (H, Y), PTFE (F)
Action mode: Double action, Single action (Spring Return)
Control mode: ON/OFF type, Adjusting type
Accessories: Solenoid valve, Positioner, Limit switch ,AFR, Manual Gear



气动薄膜单座调节阀111型
Pneumatic single seat control valve 111 type

产品概述
Product description

111型新系列气动薄膜精小型单座调节阀采用顶导向结构，配用多弹簧薄膜执行机构。具有结构紧凑、重量轻、动作灵敏、流体通道呈~流线型、压降损失少、阀容量大、流量特性精确、拆装方便等优点。广泛应用于精确控制气体、液体、蒸汽等介质，工艺参数如压力、流量、温度、液位保持在给定值。特别适用于允许泄漏量小阀前后压差不大的工作场合。

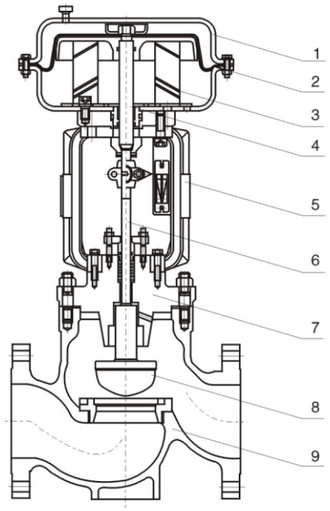
本系列产品有标准型、调节切断型、波纹管密封型、夹套保温型、低温型、高温散热等多个品种。产品公称压力等级有PN16、25、40、64(63);20(CLASS150)、50(CLASS300)、110(CLASS600)口径范围DN15~250。适用流体温度由-250℃~+550℃范围内多种档次。泄漏量标准有IV级或VI级。流量特性有线性或等百分比。设计单位及用户可根据具体工况进行选择。

Model 111 is a new series of pneumatic diaphragm fine and small single-seat control valves with top guide structure and multi-spring diaphragm actuators. It has the advantages of compact structure, light weight, sensitive action, streamlined fluid passage, less pressure drop loss, large valve capacity, accurate flow characteristics, and convenient disassembly and assembly. It is widely used in precise control of gas, liquid, steam and other media, and process parameters such as pressure, flow, temperature and liquid level are kept at a given value. It is especially suitable for working occasions where the pressure difference between the front and rear of the valve with small leakage is small.

This series of products includes standard type, adjustable cut-off type, bellows sealing type, jacket insulation type, low temperature type, high temperature heat dissipation and other varieties. Product nominal pressure grades are PN16, 25, 40, 64 (63); 20 (CLASS150), 50 (CLASS300), 110 (CLASS600) caliber range DN15~250. The applicable fluid temperature ranges from -250°C to +550°C in various grades. Leakage standards are either Class IV or Class VI. The flow characteristics are linear or equal percentage. Design units and users can choose according to specific working conditions.



111型气动薄膜单座调节阀基本结构
Basic structure of 111 type pneumatic thin film single seat regulating valve



1、膜盖　6、阀杆
2、膜片　7、阀盖(标准型)
3、弹簧　(常温型)
4、推杆　8、阀芯
5、支架　9、阀体

气动薄膜单座调节阀111型
Pneumatic single seat control valve 111 type

主要技术参数 Main technical parameters

公称通径 DN(mm) Nominal Diameter		20				25					32	40		50		
阀座直径 dn(mm) Valve seat diameter		10	12	15	20	10	12	15	20	25	32	32	40	32	40	50
额定流量系数(KV) Rated flow coefficient (KV)	直线 Straight line	1.8	2.8	4.4	6.9	1.8	2.8	4.4	6.9	11	17.8	17.6	27.5	17.6	27.5	44
	等百分比 Equal percentage	1.6	2.5	4.0	6.3	1.6	2.5	4.0	6.3	10	16	16	25	16	25	40
额定行程L Rated stroke L		16									25					
膜片有效面积Ae(cm²) Effective area Ae of membrane		280									400					

公称通径 DN(mm) Valve seat diameter	65	80		100			125	150		200		250
阀座直径 dn(mm) Valve seat diameter	65	65	80	65	80	100	125	125	150	150	200	250
额定流量系数(KV) Rated flow coefficient (KV) 直线 Straight line	69	69	110	69	110	176	275	275	440	440	690	1100
额定流量系数(KV) Rated flow coefficient (KV) 等百分比 Equal percentage	63	63	100	63	100	160	250	250	400	400	630	900
额定行程L Rated stroke L	40						60					100
膜片有效面积Ae(cm²) Effective area Ae of membrane	600						1000					1600

公称压力 PN Nominal pressure	Mpa	1.6、2.5、4.0、6.4(6.3)/2.0、5.0、11.0	
	Bar	16、25、40、64(64)/20、50、110	
	Lb	ANSI: Class150、Class300、Class600	
固有流量特性 Inherent flow characteristics		直线、等百分比	
固有可调比(R) Inherently adjustable ratio		50:1	
弹簧(信号)范围Pr(KPa) Spring (signal) range Pr (Kpa)		20~100、40~200、80~240、(20~60、60~100)	
起源压力Ps(MPa) Origin pressure Ps (Mpa)		0.14/0.25/0.3	
允许泄露量 Permissible leakage amount		硬阀芯：IV级（10^{-4}x Kv）软阀芯：VI级见GB/T4213-2008 Hard valve core: Class IV (10 x Kv) Soft valve core: Class VI, see GB/T4213-2008	
工作温度t(℃) work temperature	常温型 Normal temperature type		-20~200、-40~250、-60~250
	散热型 Heat dissipation type	代号Code：S	-40~350、-60~350
	高温型 High temperature type	代号Code：G	350~550（选用高温材料Select high-temperature materials）
	低温型 Low temperature type	代号Code：D	-100~-60；-196~-100；-253~-196
	调节切断阀 Adjusting the shut-off valve	代号Code：Q	-40~150(阀芯夹增强PTFE)

1、弹簧范围：气开式优先选用40-200KPa及80-240KPa；气闭式优先选用20-100KPa及40-20OKPa，可选用其他弹簧范围。
2、工作温度划分是根据阀体材料的压力-温度等级(GB/T12224-2015)、使用工况、阀门的密封件材料等综合因素来划分的，各国划分是有细微区别的，甚至每个厂家因使用的材料不一也会导致温度划分不一样。

1. Spring range: For air open type, 40-200KPa and 80-240KPa are preferred; 20-100KPa and 40-20OKPa are preferred for the air closed type, and other spring ranges can be selected.
2. The classification of working temperature is based on comprehensive factors such as the pressure temperature grade of the valve body material (GB/T12224-2015), operating conditions, and the sealing material of the valve. There are slight differences in classification among countries, and even each
The use of different materials by manufacturers can also result in different temperature divisions.

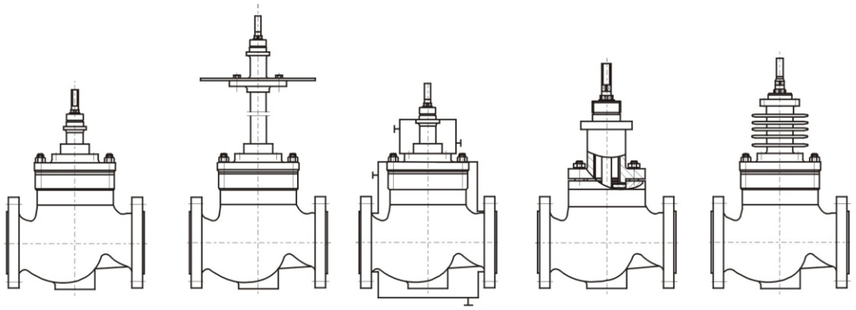
气动薄膜单座调节阀111型
Pneumatic single seat control valve 111 type

连接尺寸及标准 Connection dimensions and standards

- 法兰按GB/T9124.1-2019(默认标准)也可按JB/T79-2015或HG20592~HG20635-2009
- 法兰密封面型式：PN16为凸面法兰；PN25为凸面法兰；PN40、PN64(63)为凹凸面法兰，阀体为凹面法兰
- 法兰端面距按GB/T12221-2005(其他标准须指明)
- 焊接连接坡口按：GB/T12224-2015
- 执行机构气信号接口：Rc1/4，Rc3/8(DN≥250)
- 阀体法兰及法兰端面距离可以按用户指定的标准制造，如ANSI，JIS，DIN等。

The flange can be according to GB/T9124.1-2019 (default standard) or JB/T79-2015 or HG20592~HG20635-2009
Flange sealing surface type: PN16 is a raised face flange; PN25 is a raised face flange; PN40, PN64 (63) are concave convex flange, and the valve body is concave flange
The distance between flange end faces shall be in accordance with GB/T12221-2005 (other standards must be specified)
Welding connection groove according to GB/T12224-2015
Pneumatic signal interface of actuator: Rc1/4, Rc3/8 (DN ≥ 250)
The distance between the valve body flange and the flange end face can be manufactured according to user specified standards, such as ANSI, JIS, DIN, etc.

阀盖型式 Valve cover type



标准型(常温型) 低温型 (全蒸汽)夹套保温型 波纹管密封型 高温散热型

主要零件尺寸 Main component dimensions

零件名称 Part Name	材料 Material
阀体、阀盖 Valve body, valve cover	WCB(ZG230-450)WCC(ZG270-500)WC6(ZG15CrMo) CF8(304) CF8M(316) CF3(304L)CF3M(316L)
阀芯、阀座 Valve core and valve seat	304(0Cr18Ni9)316(0Cr17Ni12Mo2)316L(00Cr17Ni14Mo2)并 堆焊司太莱合金17-4PH(沉淀硬化型不锈钢) And overlay welding of Stellite alloy 17-4PH (precipitation hardening stainless steel)
填料 Filler	PTFE(聚四氟乙烯)PTFE(增强聚四氟乙烯)Grafoil(柔性石墨) PTFE (polytetrafluoroethylene) PTFE (reinforced polytetrafluoroethylene) Grafoil (flexible graphite)
密封垫片 Sealing gasket	PTFE、不锈钢夹石墨 PTFE, stainless steel with graphite clip
膜盖 Membrane cover	A3(Q235镀漆或喷塑)304(特殊情况下采用) A3 (Q235 painted or sprayed) 304 (used in special cases)
波纹膜片 Corrugated diaphragm	丁腈橡胶夹尼龙 Nitrile rubber clip nylon
弹簧 Spring	6OSi2Mn 50CrVA
阀杆 Valve stem	304 316 316L 17-4PH

调节阀重量表 Weight table of regulating valve

单位：Kg

公称通径 Nominal Diameter		20	25	32	40	50	65	80	100	125	150	200
标准型 Standard Type	PN16	17	18	23	26	29	52	62	95	115	152	235
	PN40	18	19	25	27	32	56	68	115	140	165	295
	PN64	25	27	35	41	45	69	78	155	190	255	355
散热高温型 Heat dissipation high-temperature type		18	19	25	27	32	56	68	75	120	148	325
波纹管密封型 Bellows sealed type		18	19	25	27	32	56	68	75	120	148	325
低温型 Low temperature type		25	27	30	33	39	59	68	85	150	210	335

注:1、重量不包括附件 2、波纹管密封型、散热高温型、低温型以PN16为例
Note: 1. Weight does not include attachment 2. For bellows sealed type, heat dissipation high temperature type, and low temperature type, take PN16 as an example

气动薄膜单座调节阀111型
Pneumatic single seat control valve 111 type

允许压差(气开式) Allowable pressure difference (air open)

单位：mm

膜片有效面积Ae(cm²) Effective area Ae of membrane (cm²)			280		400		600		1000	
信号范围Pr(KPa) Signal range Pr (KPa)			20-100	40-200	20-100	40-200	20-100	40-200	20-100	40-200
起源压力Ps(MPa) Origin pressure Ps (MPa)			0.14	0.25	0.14	0.25	0.14	0.25	0.14	0.25
需配附件 Accessories required			-	P	-	P	-	P	-	P
公称通径DN(mm)及阀座直径dn(mm) Nominal diameter DN (mm) and valve seat diameter dn (mm)	20	10	5.35	6.40						
		12	3.72	6.40						
		15	2.38	5.55						
		20	1.34	3.12						
	25	25	0.86	2.00						
	32	32			0.75	1.74				
	40	25			1.22	2.85				
		32			0.75	1.74				
		40			0.48	1.11				
	50	32			0.75	1.74				
		40			0.48	1.11				
		50			0.31	0.71				
	65	65					0.27	0.63		
	80	50					0.46	1.07		
		65					0.27	0.63		
		80					0.18	0.42		
	100	65					0.27	0.63		
		80					0.18	0.42		
		100					0.11	0.23		
	125	125							0.12	0.28
	150	100							0.19	0.44
		125							0.12	0.24
		150							0.09	0.20
	200	125							0.12	0.28
		150							0.09	0.20
		200							0.05	0.11

1、P：阀门定位器(气开式带不带定位器是不影响允许压差的)。
2、对于111型单座波纹管密封调节阀，最大允许压差为1.0MPa，表中数据若数值小于1.0MPa则不变，若数值大于1.0MPa，则取值1.0MPa。
3、允许压差仅仅指按标准执行机构配置的数值，可根据具体工况条件另配执行机构来满足使用要求。
4、由于国内外各个厂家使用的执行机构输出力是有差别的，因此同一口径的阀门每个供应商出具的允许压差数据是不一样的。
5、同一阀门选用40-200KPa弹簧其允许压差是20-10KPa弹簧允许压差的2倍，由以上数据可知，气开式单座调节阀尽量使用40-200KPa弹簧或80-240KPa弹簧。
6、以上数据是根据阀关闭时，阀后压力P2=0时的计算值，在调节时允许压差更大。

1. P: Valve positioner (air opening type with or without positioner does not affect the allowable pressure difference).
2. For the 111 single seat corrugated pipe sealing regulating valve, the maximum allowable pressure difference is 1.0MPa. If the value in the table is less than 1. OMPa, it remains unchanged. If the value is greater than 1.0MPa, it is taken as 1.0MPa.
3. The allowable pressure difference only refers to the value configured according to the standard actuator, and an additional actuator can be configured according to specific operating conditions to meet the usage requirements.
4. Due to differences in the output force of actuators used by various domestic and foreign manufacturers, the allowable pressure difference data provided by each supplier for valves of the same caliber are different.
5. The allowable pressure difference of the 40-20OKPa spring used for the same valve is twice that of the 20-10KPa spring. From the above data, it can be seen that the air open single seat regulating valve should use 40-200KPa spring or 80-240KPa spring as much as possible.
6. The above data is based on the calculated value when the valve is closed and the pressure behind the valve P2=0, allowing for a larger pressure difference during adjustment.

气动薄膜单座调节阀111型
Pneumatic single seat control valve 111 type

允许压差(气关式) Allowable pressure difference (air closed)

单位：mm

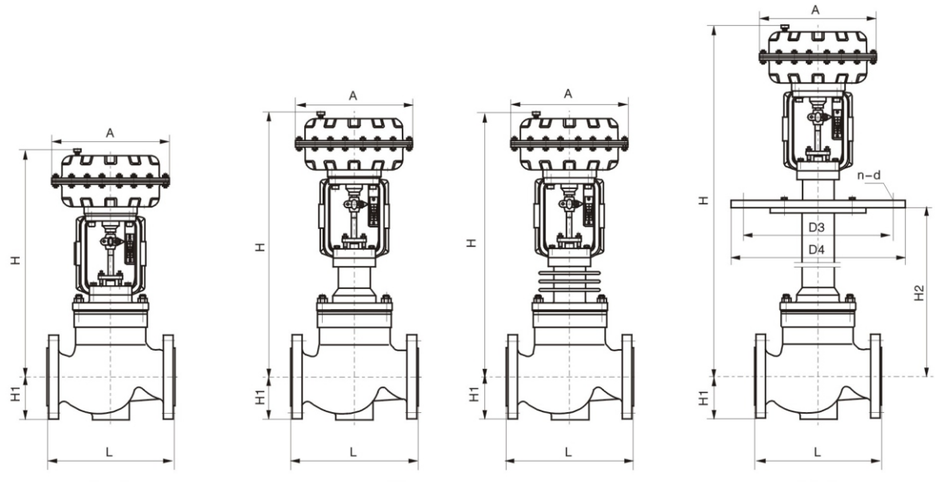
膜片有效面积Ae(cm²) Effective area Ae of membrane (cm²)			280			400			600			1000		
信号范围Pr(KPa) Signal range Pr (KPa)			20-100	20-100	40-200	20-100	20-100	40-200	20-100	20-100	40-200	20-100	20-100	40-200
起源压力Ps(MPa) Origin pressure Ps (MPa)			0.14	0.14	0.25	0.14	0.14	0.25	0.14	0.14	0.25	0.14	0.14	0.25
需配附件 Accessories required			-	P	P	-	P	P	-	P	P	-	P	P
公称通径DN(mm)及阀座直径dn(mm) Nominal diameter DN (mm) and valve seat diameter dn (mm)	20	10	5.35	6.40	6.40									
		12	3.72	6.40	6.40									
		15	2.33	5.55	6.40									
		20	1.34	3.12	4.01									
	25	25	0.86	2.00	2.57									
	32	32				0.75	1.74	2.24						
	40	25				1.22	2.85	3.67						
		32				0.75	1.74	2.24						
		40				0.48	1.11	1.48						
	50	32				0.75	1.74	2.24						
		40				0.48	1.11	1.48						
		50				0.31	0.71	0.91						
	65	65							0.27	0.63	0.81			
	80	50							0.46	1.07	1.38			
		65							0.27	0.63	0.81			
		80							0.18	0.42	0.52			
	100	65							0.27	0.63	0.81			
		80							0.18	0.42	0.52			
		100							0.11	0.26	0.34			
	125	125										0.12	0.29	0.37
	150	100										0.19	0.44	0.57
		125										0.12	0.29	0.37
		150										0.09	0.20	0.25
	200	125										0.12	0.29	0.37
		150										0.09	0.20	0.25
		200										0.05	0.11	0.14

1、P：阀门定位器
2、对于111型单座波纹管密封调节阀，最大允许压差为1.0MPa，表中数据若数值小于1.0MPa则不变，若数值大于1.0MPa，则取值1.0MPa。
3、允许压差仅仅指按标准执行机构配置的数值，可根据具体工况条件另配执行机构来满足使用要求。
4、气源压力相同时，选用80-240Kpa弹簧其允许压差与40-200Kpa弹簧允许压差是一样的(不带定位器时)，由以上数据可知，气闭式单座调节阀尽量使用
40-200Kpa弹簧范围或20-100Kpa弹簧范围。
5、以上数据是根据阀关闭时，阀后压力P2=0时的计算值，在调节时允许压差更大。

1. P: Valve Positioner
2. For the 111 type single seat corrugated pipe sealing regulating valve, the maximum allowable pressure difference is 1.0MPa. If the value in the table is less than 1.0MPa, it remains unchanged. If the value is greater than 1.0MPa, it is taken as 1.0MPa.
3. The allowable pressure difference only refers to the value configured according to the standard actuator, and an additional actuator can be configured according to specific operating conditions to meet the usage requirements.
4. When the air source pressure is the same, the allowable pressure difference between 80-240Kpa spring and 40-200Kpa spring is the same (without a locator). From the above data, it can be seen that the air closed single seat regulating valve should be used as much as possible
40-200Kpa spring range or 20-100Kpa spring range.
5. The above data is based on the calculated value when the valve is closed and the pressure behind the valve P2=0, allowing for a larger pressure difference during adjustment.

气动薄膜单座调节阀111型
Pneumatic single seat control valve 111 type

外形尺寸 Overall dimensions



标准型　波纹管密封型　高温散热型　低温型

标准型、波纹管密封型、高温散热型外形尺寸表
Outline dimension table for standard type, bellows sealed type, and high-temperature heat dissipation type

单位：mm

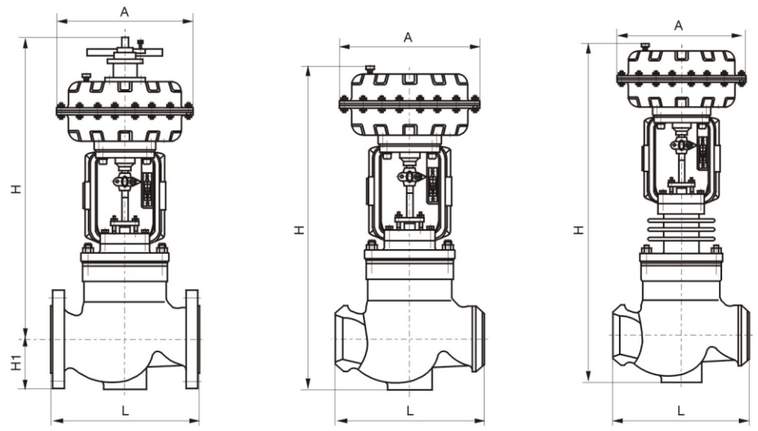
公称通径 Nominal Diameter			20	25	32	40	50	65	80	100	125	150	200	250
ΦA			282		308			395			498			620
L	PN16,20,25,40 ANSI150lb		150	160	180	200	230	290	310	350	400	480	600	730
	PN64,100(110) ANSI300lb,600Lb		230	230	260	260	300	340	380	430	500	550	650	775
H1	PN16		52.5	57.5	70	75	82.5	92.5	100	110	125	142.5	170	202.5
	PN25		52.5	57.5	70	75	82.5	92.5	100	115	135	150	180	212.5
	PN40		52.5	57.5	70	75	82.5	92.5	100	117.5	135	150	187.5	225
	PN64(63)		65	70	78	85	90	102.5	107.5	125	147.5	172.5	202.5	235
	ANSI 150lb(PN20)		50	55	60	85	75	80	95	115	127.5	140	172.5	202.5
	ANSI 300Lb(PN50)		60	62.5	67.5	77.5	82.5	95	105	127.5	140	160	190	222.5
H	标准型 Standard Type	PN16/25/40	400	400	440	450	460	570	570	570	670	700	740	970
		ANSI 150lb(PN20)	400	400	440	450	460	570	570	570	670	700	740	970
		PN64,300lb(PN50)	400	400	450	450	460	570	570	570	720	750	750	980
	散热、高温型波纹管密封型 Heat dissipation, high-temperature corrugated pipe sealing type		480	480	530	530	530	640	640	640	800	810	840	1050

1、带顶装手轮机构阀高度应H增加152(DN20-50)、182(DN65-100)253(DN125-200)、352(DN250)

1. The height of the valve with top mounted handwheel mechanism should be increased by 152 (DN20-50), 182 (DN65-100), 253 (DN125-200), and 352 (DN250)

气动薄膜单座调节阀111型
Pneumatic single seat control valve 111 type

外形尺寸 Overall dimensions



带顶装手轮　　焊接连接　　焊接连接(高温散热型)

低温型外形尺寸表(美标)
Low temperature type external dimension table (American standard)

单位：mm

公称通径 Nominal Diameter		20	25	32	40	50	65	80	100	125	150	200
ΦA		282		308			395			498		
L	PN16,20 (150lb)25,40	150	160	180	200	230	290	310	350	400	480	600
	PN50(300Lb) 64(63)	230	230	260	260	300	340	380	430	500	550	650
H1	-60~-100℃	500	500	500	500	500	600	600	600	700	700	700
	-100~-200℃	700	700	700	700	700	800	800	800	900	900	900
	-200~-250℃	900	900	900	900	900	1000	1000	1000	1100	1100	1100

1、带顶装手轮机构阀高度应H增加152(DN20-50)、182(DN65-100)、253(DN125-200)

2、尺寸H2(保温长度)是以一般空分行业设计尺寸推荐的，设计院及使用单位可以根据需求指定，如不指定我公司按以上尺寸出厂。

1. The height of the valve with top mounted handwheel mechanism should be increased by 152 (DN20-50), 182 (DN65-100), and 253 (DN125-200)
2. The size H2 (insulation length) is recommended based on the design size of the general air separation industry. The design institute and user unit can specify it according to their needs. If not specified, our company will produce according to the above dimensions.

气动薄膜单座调节阀111型
Pneumatic single seat control valve 111 type

低温型外形尺寸表(国标) Low temperature type external dimension table (national standard)

单位：mm

公称通径 Nominal Diameter			20	25	32	40	50	65	80	100	125	150	200
H	-60~ -100℃	Pn16、20、25、40	810	810	832	832	832	1026	1026	1026	1200	1198	1198
		Pn50、64	810	810	832	832	832	1026	1026	1026	1200	1198	1198
	-100~ -200℃	Pn16、20、25、40	1010	1010	1032	1032	1032	1226	1226	1226	1400	1398	1398
		Pn50、64	1010	1010	1032	1032	1032	1226	1226	1226	1400	1398	1398
	-200~ -250℃	PN16、20、25、40	1210	1210	1232	1232	1232	1426	1426	1426	1600	1598	1598
		PN50、64	1210	1210	1232	1232	1232	1426	1426	1426	1600	1598	1598
ΦD3			260	260	285	305	340	370	405	460	525	590	700
ΦD4			290	290	315	335	370	400	435	490	555	630	740
螺栓孔n(个)d(直径)			8-14	8-14	8-14	8-16	8-16	10-16	10-16	12-18	14-18	16-18	18-18

1、带顶装手轮机构阀高度应H增加152(DN20-50)、182(DN65-100)、253(DN125-200)

2、尺寸H2(保温长度)是以一般空分行业设计尺寸推荐的，设计院及使用单位可以根据需求指定，如不指定我公司按以上尺寸出厂。

1. The height of the valve with top mounted handwheel mechanism should be increased by 152 (DN20-50), 182 (DN65-100), and 253 (DN125-200)
2. The size H2 (insulation length) is recommended based on the design size of the general air separation industry. The design institute and user unit can specify it according to their needs. If not specified, our company will produce according to the above dimensions.

订货须知

订货时请用户提供一下材料

- 调节阀名称、型号、用途。
- 公称通径(mm)、公称压力(MPa)、工作温度及范围。
- 阀前压力，阀后压力。
- 介质名称及状态，介质流量。
- 阀盖型式。
- 整机作用方式(气开还是气关)，仪表风(气源压力)。
- 阀体、阀内件材质要求

- 附件要求:
  电-气阀门定位器、空气过滤减压器、电磁阀、保位阀、阀位传送器、(顶装)手轮等。
- 阀体法兰标准。
- 阀体结构长度(法兰面距L)。
- 其他特殊要求(如耐蚀要求，防爆等级要求，泄漏等级限制要 求，等等)。
- 技术参数更改，恕不另行通知!

Ordering Instructions

Please provide the following materials when placing an order

- Name, model, and purpose of the regulating valve.
- Nominal diameter (mm), nominal pressure (MPa), operating temperature and range.
- Pre valve pressure, post valve pressure.
- Media name and status, media flow rate.
- Valve cover type.

The operation mode of the entire machine (air on or air off), instrument air (air source pressure).
Material requirements for valve body and valve trim
Attachment requirements:
Electric pneumatic valve positioner, air filter pressure reducer, solenoid valve, holding valve, valve position transmitter, (top mounted) handwheel, etc.
Standard for valve body flanges.
The length of the valve body structure (flange face distance L).
Other special requirements (such as corrosion resistance requirements, explosion-proof level requirements, leakage level limit requirements, etc.).
Technical parameters are subject to change without prior notice!

气动薄膜角形套筒调节阀 137型
Pneumatic angular sleeve control valve 137 type

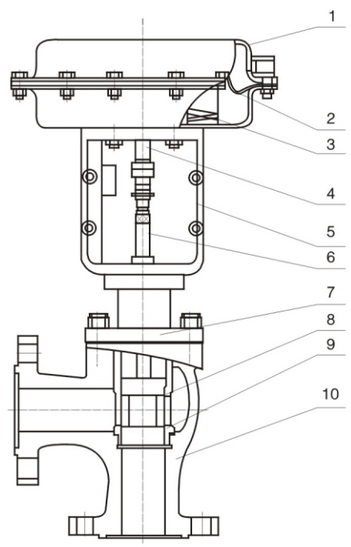
产品概述
Product description

137型新系列气动薄膜角形套筒调节阀，相对于1151型气动薄膜角形单座阀来说只是阀内件不一样，相对于气动薄膜套筒调节阀来说，只是阀体不一样。137型使用在管道90°弯道处，用于代替117型不能胜任高压差的场合。

Compared with the 1151 type pneumatic diaphragm angle single-seat valve, the new series of 137 type pneumatic film angle sleeve control valve is only different in the valve trim, and compared with the pneumatic film sleeve control valve, only the valve body is different. Type 137 is used at 90° bends in pipelines to replace the occasions where Type 117 cannot handle high pressure differences.



137型气动薄膜角形套筒调节阀基本结构
Basic Structure of 137 Pneumatic Diaphragm Angle Sleeve Regulating Valve



1、膜盖　6、阀杆
2、膜片　7、阀盖
3、弹簧　8、阀芯
4、推杆　9、套筒
5、支架　10、阀体

气动薄膜角形套筒调节阀 137型
Pneumatic angular sleeve control valve 137 type

型号编制说明 Model preparation instructions

137-口口K(B) 1：新系列 1：气动薄膜执行机构 5：角型阀 2：笼式结构
1: New series 1: Pneumatic diaphragm actuator 5: Angle valve 2: Cage structure

-口口：压力领别：　如16: 1.6MPa　K(B)气开(关)式
Pressure range: such as 16: 1.6MPa K (B) gas on (off) type

137-口口K(B)	Q：调节切断型	Adjusting the cut-off type
137-口口K(B)G	G：高温型	High temperature type
137-口口K(B)V	V：波纹管密封性	Sealing performance of corrugated pipes
137-口口K(B)J	J：夹套保温型	Jacket insulation type
137-口口K(B)D	D：低温型	Low temperature type
137-口口K(B)S	S：散热型	Heat dissipation type

允许压差
同112型气动薄膜套筒调节阀篇

Allowable differential pressure
Same as Type 112 Pneumatic Film Sleeve Control Valve

外形尺寸
同112型气动薄膜角形单座阀篇

External dimensions
Same as Type 112 Pneumatic Film Angle Single Seat Valve

连接尺寸及标准
同112型气动薄膜角形单座阀篇

Connection size and standard
Same as Type 112 Pneumatic Film Angle Single Seat Valve

订货须知
同112型气动薄膜角形单座阀篇

Ordering notice
Same as Type 112 Pneumatic Film Angle Single Seat Valve

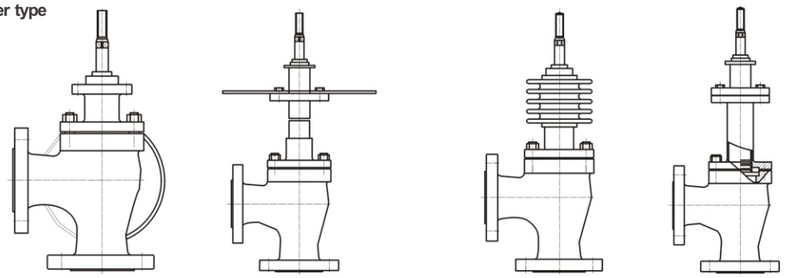
主要零件尺寸 Main component dimensions

零件名称 Part Name	材料 Material
阀体、阀盖 Valve body, valve cover	WCB(ZG230-450)WCC(ZG270-500)WC6(ZG15CrMo) CF8(304) CF8M(316) CF3(304L)CF3M(316L)
阀芯、套筒 Valve core and sleeve	304(0Cr18Ni9)316(0Cr17Ni12Mo2)316L(00Cr17Ni14Mo2) 并堆焊司太莱合金17-4PH(沉淀硬化型不锈钢) And overlay welding of Stellite alloy 17-4PH (precipitation hardening stainless steel)
填料 Filler	PTFE(聚四氟乙烯)PTFE(增强聚四氟乙烯)Grafoil(柔性石墨) PTFE (polytetrafluoroethylene) PTFE (reinforced polytetrafluoroethylene) Grafoil (flexible graphite)
密封垫片 Sealing gasket	PTFE、不锈钢夹石墨 PTFE, stainless steel with graphite clip
膜盖 Membrane cover	A3(Q235镀漆或喷塑)304(特殊情况下采用)
波纹膜片 Corrugated diaphragm	丁腈橡胶夹尼龙 Nitrile rubber clip nylon
阀杆 Valve stem	304 316 316L 17-4PH

可根据工况需用其他材料技术参数更改，恕不另行通知！
Other material technical parameters can be changed according to the working conditions without prior notice!

气动薄膜角形套筒调节阀 137型
Pneumatic angular sleeve control valve 137 type

阀盖型式 Valve cover type



夹套保温型　低温型　高温散热型　波纹管密封型

主要技术参数 Main technical parameters

公称通径DN(mm) Nominal Diameter		20	25	32	40	50	65	80	100	125	150	200
额定流量系数Kv Rated flow coefficient Kv	直线 Straight line	6.9	11	17.6	27.5	44	69	110	176	275	440	690
	等百分比 Equal percentage	6.3	10	16	25	40	63	100	160	250	400	630
额定行程L(mm) Rated stroke L (mm)		16		25			40			60		
膜片有效面积Ae(cm²) Effective area Ae of membrane (cm²)		280		400			600			1000		
公称通径DN(mm) Nominal diameter DN (mm)		250		300			350					
额定流量系数Kv Rated flow coefficient Kv	直线 Straight line	1000		1650			2160					
	等百分比 Equal percentage	900		1500			200					
额定行程L(mm) Rated stroke L (mm)		100										
膜片有效面积Ae(cm²) Effective area Ae of membrane (cm²)		1600										
信号范围Pr(KPa) Signal range Pr (KPa)		20~100、40~200、80~240										
气源压力PS(MPa) Air source pressure PS (Mpa)		0.14、0.25，0.30										
固有流量特征 Inherent flow characteristics		直线、等百分比 Straight line, equal percentage										
固有可调比R Inherently adjustable ratio R		50:1										
允许泄露量 Permissible leakage amount		硬阀芯平衡型：Ⅲ级、Ⅳ级软密封：Ⅵ级 Hard valve core balance type: Class III, Class IV soft seal: Class VI										
公称压力 PN Nominal pressure	MPa	1.6，2.5，4.0，6.4(6.3)/2.0，5.0，11.0，15.0										
	Bar	16，25，40,64(63)，100，160/20，50，110，150										
	Lb	ANSI：Class150、Class300、Class600/Class900										
工作温度 (℃) working temperature (℃)	常温型 Normal temperature type	-20~200、-40~250、-60~250										
	散热型 Heat dissipation type	-40~450、-60~450										
	高温型 High temperature type	450-560(使用高温材料) 450-560 (using high-temperature materials)										
	低温型 Low temperature type	-60~-100、-100~-200、-200~-250										
	调节切断阀 Adjusting the shut-off valve	-40~150(阀芯夹PTFE)、-60~200(阀芯夹增强PTFE) -40-150 (valve core clamp PTFE), -60-200 (valve core clamp reinforced PTFE)										

1、弹簧范围：气开式优先选用40-200KPa及80-240KPa；气闭式优先选用20-100KPa及40-20OKPa
2、工作温度划分是根据阀体材料的压力-温度等级(GB9131-94)、使用工况、阀门的密封件材料等综合因素来划分的，
各国划分是有细微区别的

1. Spring range: For air open type, 40-200KPa and 80-240KPa are preferred; 20-100KPa and 40-20OKPa are preferred for air closed systems
2. The classification of working temperature is based on comprehensive factors such as the pressure temperature grade (GB9131-94) of the valve body material, operating conditions, and the sealing material of the valve,
There are subtle differences in the division of countries

自力式调节阀 211型
Self-operated regulator 211 type

产品概述
Product description

211系列自力式调节阀的英文名为Self-Operated Regulator，直译为“自动调节器”，它是集检测、变送、控制、执行为一体的阀门装置，与控制阀(control valve)有很大的区别。自力式调节阀显著特点是：无须外加能源(电源、气源)，直接利用被控介质自身能量进行自动控制与操作。只要利用了辅助能源的阀门就不能称作“自力式”，这个概念必须要澄清，否则会给供应商制造商造成误解!自力式阀门共有四大类：自力式压力调节阀、自力式温度调节阀、自力式流量调节阀、自力式液位调节阀其中自力式压力调节阀种类最多，共有以下种类：211型压力调节阀，212型微压阀，213型差压阀，214-16Ⅱ型指挥器操作式压力调节阀(氮封装置)，216型全天候阻火呼吸阀。

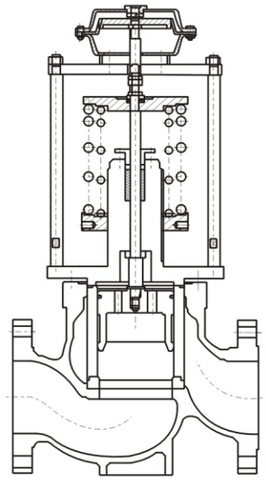
我公司是自力式阀门专业厂家，其生产的自力式阀门无论是质量、数量、品种规格等均在国内处于前列!

The English name of the 211 series self-operated regulating valve is Self-Operated Regulator, which is literally translated as "automatic regulator". It is a valve device integrating detection, transmission, control and execution. difference. The remarkable feature of the self-operated control valve is that it does not need external energy (power supply, gas source), and directly utilizes the energy of the controlled medium for automatic control and operation. As long as the valve using auxiliary energy cannot be called "self-operated", this concept must be clarified, otherwise it will cause misunderstandings to suppliers and manufacturers! There are four categories of self-operated valves: self-operated pressure regulating valves, self-operated temperature regulators Valves, self-operated flow control valves, and self-operated liquid level control valves. Among them, there are the most types of self-operated pressure control valves. There are the following types: 211 type pressure regulating valve, 212 type micro-pressure valve, 213 type differential pressure valve, 214-16 II type commander 216 type all-weather fire-resisting breathing valve.

Our company is a professional manufacturer of self-operated valves, and the self-operated valves produced by it are in the forefront of the country in terms of quality, quantity, variety and specifications!

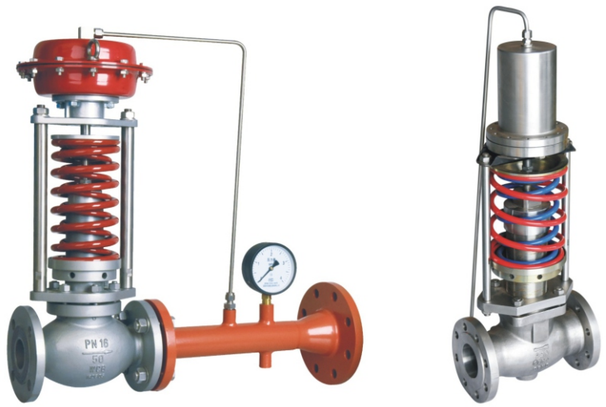


211系列自力式阀门系列产品
211 series self operated valve series products



套筒自力式2112

自力式调节阀 211型
Self-operated regulator 211 type



自力式阀门系列产品 Self operated valve series products

211型自力式压力调节阀是不需要任何外加能源，利用被调介质自身能量而自动调节的执行产品。该产品的最大特点就是能在无电、无气的场所使用，同时又节约了能源。压力没定期在一定范围内随意可调。211型自力式压力调节阀根据各种工艺场合的需要有三种阀内件行程：2111型(单座自力式压力调节阀)；2112型(套筒自力式压力调节阀)；2114型(双座自力式压力调节阀)。用户可根据况(压差、温度、介质状态)和泄漏量要求来选择。211型自力式压力调节阀根据各种工艺场合的需要有三种阀盖型式：普通(一般场合)、长颈(压力调节范围大)、散热(温度350~550℃)。

211型自力式压力调节阀根据各种工艺场合的需要有三种执行机构型式：膜片(普通膜片和增强膜片)、活塞、金属膜片(OCr18Ni9)。211型自力式压力调节阀采用快开流量特性，动作灵敏，调节精度高(误差≤10%)；该阀占据空间小(相对于重锤式减压阀)，调节简易，因而它广泛用于石油、化工、电力、冶金、食品、轻纺、机械制造、民用建筑等各种没备的气体、液体及蒸汽的减压、稳压(用于阀后调节)或泄压、稳压(用于阀前调节)。

Self operated valve series products
The 211 type self operated pressure regulating valve is an executive product that does not require any external energy and utilizes the energy of the regulated medium to automatically regulate. The biggest feature of this product is that it can be used in places without electricity or gas, while also saving energy. The pressure is not regularly adjustable within a certain range. The 211 type self operated pressure regulating valve has three types of valve trim strokes according to the needs of various process occasions: the 2111 type (single seat self operated pressure regulating valve); 2112 type (sleeve self operated pressure regulating valve); 2114 type (double seat self operated pressure regulating valve). Users can choose based on the conditions (pressure difference, temperature, medium status) and leakage requirements. The 211 type self operated pressure regulating valve has three types of valve cover according to the needs of various process occasions: ordinary (general occasions), long neck (large pressure regulating range), and heat dissipation (temperature 350~550 ℃).
The 211 type self operated pressure regulating valve has three types of actuator according to the needs of various process occasions: diaphragm (ordinary diaphragm and reinforced diaphragm), piston, and metal diaphragm (OCr18Ni9). The 211 type self operated pressure regulating valve adopts a fast opening flow characteristic, with sensitive action and high adjustment accuracy (error ≤ 10%); The valve occupies a small space (compared with the weight type pressure reducing valve) and is easy to adjust, so it is widely used in petroleum, chemical industry, power, metallurgy, food, textile, machinery manufacturing, civil buildings and other unprepared gas, liquid and steam pressure reduction and stabilization (for post valve regulation) or pressure relief and stabilization (for pre valve regulation).

结构与原理 Structure and Principle

- 211型自力式压力调节阀有检测执行机构、阀本体、取压管阀前(后)接管组成。
- 其结构见右图一(下页)

Structure and Principle
The 211 type self operated pressure regulating valve consists of a detection actuator, valve body, and front (rear) connecting pipe of the pressure pipe valve.
The structure is shown in Figure 1 on the right (next page)

自力式调节阀 211型
Self-operated regulator 211 type

图一a、用于控制阀后压力的调节阀，阀作用方式为压闭型。
其用原理如下：

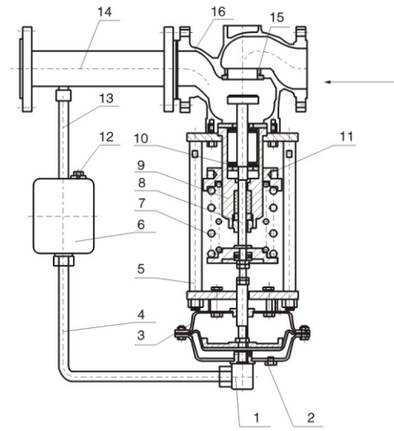
介质由箭头方向流入阀体，经阀座、阀芯节流后输出，另一路径取压管(介质为蒸汽时加冷凝水)被引入执行机构作用与膜片上，使阀芯随之发生相应位移，达到减压、稳压的目的。如阀后压力增加，作用于膜片上的力增加，压缩弹簧，带动阀芯，使阀门开度减少，直至阀后压力下降至设定值为止。同理，如阀后压力降低，作用在膜片上的力减小，由于弹簧的反作用力，带动阀芯，使阀门的开度加大，直至阀后压力上升至设定值为止。

图一b、用于控制阀前压力的调节阀，阀作用方式为压开型，其作用原理如下：介质由箭头方式流入阀体，经阀座、阀芯节流后输出。另一路径取压管(介质蒸汽时加冷凝器)被引执行机构作用于膜片上，使阀芯随之发生相应的位移，达到泄压、稳压的目的。如阀前压力增加，作用于膜片上的力增加，压缩弹簧，带动阀芯，式阀门开度增大，直至阀前压力下降至设定值为止。同理，如阀前压力降低，作用在膜片上的力减少，由于弹簧的反作用力，带动阀芯，使阀门的开度加小，直至阀前压力上升至设定值为止，若阀前压力小于设定值则该阀一直是关闭的。

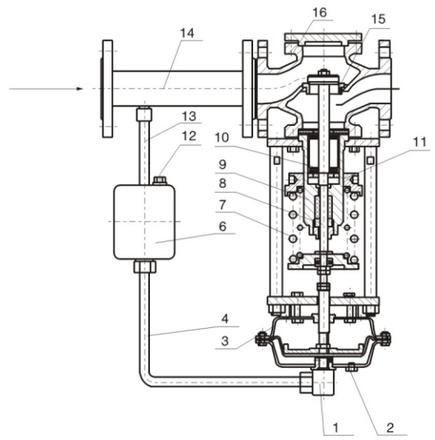
Figure 1a. The regulating valve used to control the pressure behind the valve, with a pressure closed valve action mode.
The principle of its use is as follows:
The medium flows into the valve body in the direction of the arrow, and is throttled by the valve seat and valve core before being output. Another path of the pressure pipe (adding condensate when the medium is steam) is introduced into the actuator and diaphragm, causing the valve core to move accordingly, achieving the purpose of reducing pressure and stabilizing pressure. If the pressure behind the valve increases, the force acting on the diaphragm increases, compressing the spring and driving the valve core to reduce the valve opening until the pressure behind the valve drops to the set value. Similarly, if the pressure behind the valve decreases, the force acting on the diaphragm decreases. Due to the reaction force of the spring, it drives the valve core and increases the opening of the valve until the pressure behind the valve rises to the set value.
Figure 1b: A regulating valve used to control the pressure in front of the valve. The valve operates in a pressure open type, and its working principle is as follows: the medium flows into the valve body in an arrow pattern, and is output after being throttled by the valve seat and core. The other path of the pressure pipe (adding a condenser when the medium is steam) is guided by the actuator to act on the diaphragm, causing the valve core to undergo corresponding displacement, achieving the purpose of pressure relief and stabilization. If the pressure in front of the valve increases, the force acting on the diaphragm increases, compressing the spring, driving the valve core, and increasing the opening of the valve until the pressure in front of the valve drops to the set value. Similarly, if the pressure in front of the valve decreases, the force acting on the diaphragm decreases. Due to the reaction force of the spring, it drives the valve core, causing the opening of the valve to decrease until the pressure in front of the valve rises to the set value. If the pressure in front of the valve is less than the set value, the valve remains closed.

主要零件材料 Material for main parts

零件名称 Part Name	材料 Material
阀体 Valve body	ZG230-450、ZGOCr18Ni9Ti、ZGOCr18Ni12Mo2Ti
阀芯 Valve core	1Cr18Ni9、OCr18Ni12Mo2Ti (堆焊Stellite)PTFE
阀座 Valve seat	1Cr18Ni9、OCr18Ni12Mo2Ti(堆焊Stellite)
阀杆 Valve stem	1Cr18Ni9、OCr18Ni12Mo2Ti
橡胶膜片 Rubber diaphragm	丁腈、乙丙、氟、耐油橡胶或OCr18Ni9Ti Nitrile, ethylene propylene, fluorine, oil resistant rubberOr OCr18Ni9Ti
膜盖 Membrane cover	Q235、Q235涂PTFE
填料 Filler	聚四氟乙烯、柔性石墨 PTFE, flexible graphite

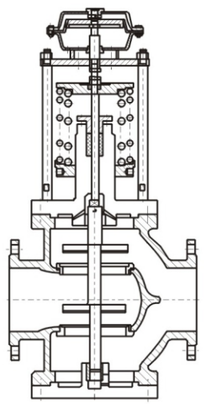


图—a、2111型-16B型
单座自力式压力调节发(控制阀后)
1、排放塞 2、排气塞 3、执行机构 4、进液管
5、压盖螺钉 6、冷凝器 7、弹簧 8、阀杆
9、阀芯 10、螺纹管 11、压力调节盘
12、注液口螺钉 13、进汽口
14、阀后接管 15、阀座 16、阀体



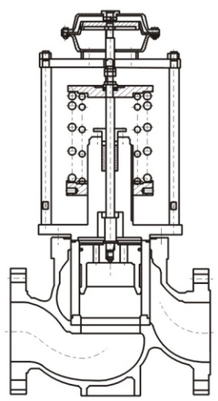
图—b、2111型-16K型
1、排放塞 2、排气塞 3、执行机构 4、进液管
5、压盖螺钉 6、冷凝器 7、弹簧 8、阀杆
9、阀芯 10、螺纹管 11、压力调节盘 12、注液口螺钉
13、进汽口 14、阀后接管 15、阀座 16、阀体

自力式调节阀 211型
Self-operated regulator 211 type



2114型双座自力式





2114型套筒自力式

主要技术参数及性能指标 Main technical parameters and performance indicators

公称通径 DN(mm) Nominal Diameter	20	25	32	40	50	65	80	100	125	150	200	250	300
额定流量系数KV Rated flow coefficient KV	5	8	12.5	20	32	50	80	125	160	320	450	630	900
额定行程 (mm) Rated travel	8		10		12	15	18	20	30	40	45	60	65
公称通径 DN(mm) Nominal Diameter	20(或G3/4)												
阀座直径 Valve seat diameter	2	3	4	5	6	7		8	9	10	12	15	20
额定流量系数KV Rated flow coefficient KV	0.02	0.08	0.12	0.20	0.32	0.5		0.80	1.20	1.80	2.80	4.0	5
公称压力 PN Nominal pressure	Mpa	1.6,2.5,4.0,6.4(6.3)/2.0,5.0,11.0											
	Bar	16,25,40,64(63)20,50,100											
	Lb	ANSI:Class150、Class300、Class600											
压力分段范围 Kpa Pressure segmentation range	15~50、40~80、60~100、80~140、120~180、160~220 200~260、240~300、280~350、330~400、380~450、430~500 480~560、540~620、600~700、680~800、780~900、880~1000 900~1200、1000~1500、1200~1600、1300~1800、1500~2100 (其它范围特殊设计) Special designs for other ranges												
流量特性 Flow characteristics	快开 Quick open												
调节精度 Adjusting accuracy	±5-10（%）												
使用温度 Operating temperature	-60~350(℃) (低于-60特殊设计) Special design below -60 350~550(℃)												
允许泄露量 Permissible leakage amount	IV级（硬密封） Level IV (hard sealed) VI级（软密封） Grade VI (Soft Seal) (GB/T4213-92)												
减压比（阀前压力/阀后压力） Pressure reduction ratio (pre valve pressure/post valve pressure)	1.25~10(超过此范围特殊设计) 1.25~10 (special design beyond this range)												

自力式压力调节阀 211型
Self operated pressure regulating valve Type 211

1、压力调节范围：
　　压力调节范围的确定见上表，控制压力精良选在中间期附近，压力范围设定越小，精度越高，因此不要人为瓜达压力设定范围。
2、对控制阀后的自力式而言，若阀前后压差比超过10这个范围，建议用多级减压阀或二个自力式串联（阀前压力小于0. 8MPa除外。例如指挥器操作式）。
3、公称压力若超过6. 4MPa，须特殊处理。
4、1kgf/cm2=100KPa。

安装时，应注意以下几点：
(1)冷凝器应高于调压阀的执行机构而低于阀前后接管。使用前冷凝器应灌满冷水，以后约3个月灌水一次。
(2)取压点应取在调压阀适当位置，阀前调压应大于2倍管道直径，阀后调压应大于6倍管道直径。
(3)方便于现场维修及操作，调节阀四周应留有适当空间，阀前后应设置截止阀与旁通手动阀。
(4)调压阀通径过大（DN≥100时），应有固定支架。
(5)当确定介质很纯洁时，件3可不安装。
(6)自力式阀可以比管道通径小，但过滤器和截止阀不能。

型号编制说明 Model preparation instructions

2111--16 (25、40、64、110) B　　3001P-16K
2:自力式产品系列；
1:薄膜执行机构；1:直接作用型；1:单座结构；2:套筒笼式结构；4:双座结构；16:PN1. 6MPa、40:4. 0MPa
B:控制阀后，压力增加阀关闭；K:控制阀前，压力增加阀开启

连接尺寸及标准 Connection dimensions and standards

法兰按GB/T9124. 1-2019(默认标准），也可按JB/T79-2015或HG20592~HG20635-2009
·法兰密封面形式：PN16为凸面法兰；PN25为凸面法兰；PN40、PN64(63)为凹凸面法兰，阀体为凹面法兰
·法兰端面距按GB/T12221-2005(其他标准须指明）
·焊接连接坡口按：GB/T12224-2015
·执行机构气信号接口：Rc1/4,Rc3/8(DN≥250
)·阀体法兰及法兰端面距离可以按用户指定的标准制造，如ANSI,JIS,DIN等。

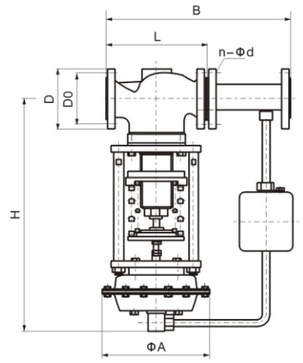
压力调整方法 Pressure adjustment method

见图 - (a,b,c)中
自力式压力调节阀在出厂前已按设定值调整好，但用户希望改变设定值，或由于某种原因实际指示针便利设定值时，可以用调节棒 转动7(调节盘），顺时针方向为压力降低，反顺时针方向为压力升高。

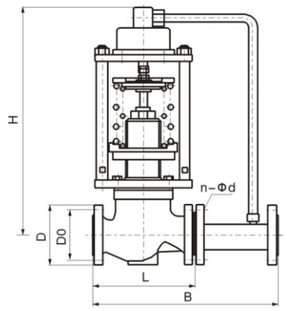
外形尺寸及重量 Overall dimensions and weight

公称通径 DN Nominal diameter			20	25	32	40	50	65	80	100	125	150	200	250	300
接管长度（B） Connecting pipe length (B)			383		512		603	862		1023	1380		1800	2000	2200
法兰面距L (PN16、25、40) Flange face distance L			150	160	180	200	230	290	310	350	400	480	600	730	850
法兰面距L (PN64) Flange face distance L			230		260		300	340	380	430	500	550	650	775	900
压力调节范围 Kpa Pressure adjustment range	15~140	H	475		520		540	710		780	840		880	940	950
		A	280	308											
	120~300	H	455		500		520	690		760	800		870	900	950
		A	230												
	280~500	H	450		490		510	590		750	790		860	890	940
		A	176					194		280					
	480~1000	H	445		480			670	740	780	780		850	880	930
		A	176					194		280					
重量（Kg） 以PN16为例 Weight (kg) Taking PN16 as an example			26		37		42	72	90	112	130	169	285	495	675

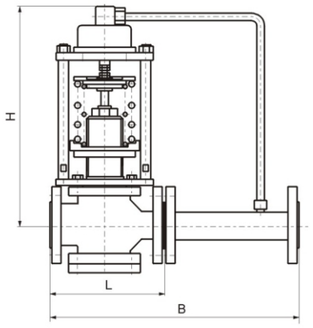
自力式压力调节阀 211型
Self operated pressure regulating valve Type 211



2111/2112



2111/2112

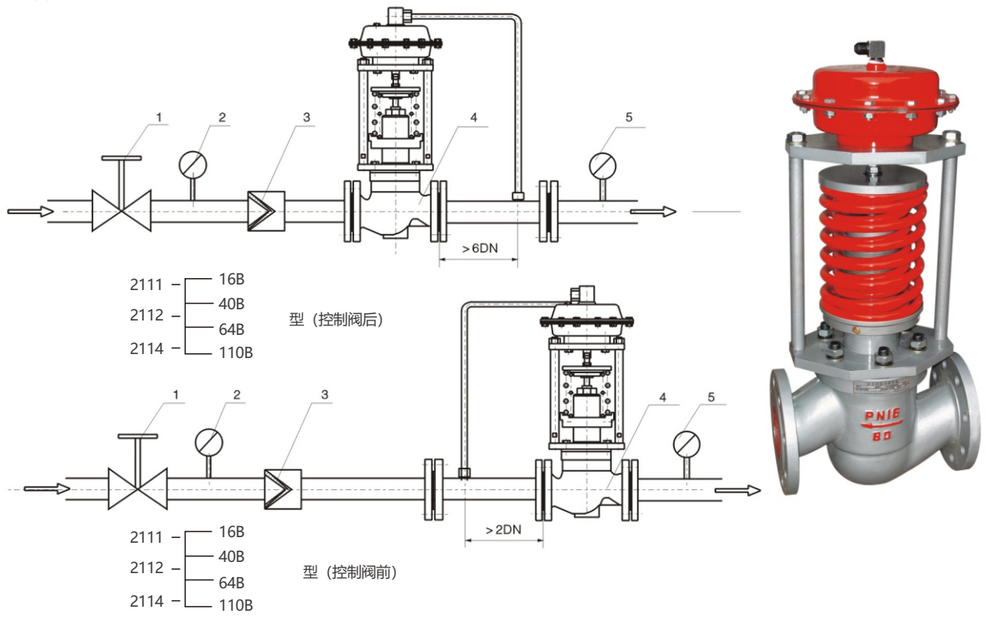


2114

安装方式 Installation method

1、阀在气体或低粘液介质中使用时，通常211型自力式压力调节阀为直立安装在水品管上，当位置空间不允许时才倒置或斜装。（当确定介质很洁净时，件3可不安装）
2、阀在蒸汽或高粘度液体介质中使用时，通常211型自力式压力调节阀为倒立安装在水平管上

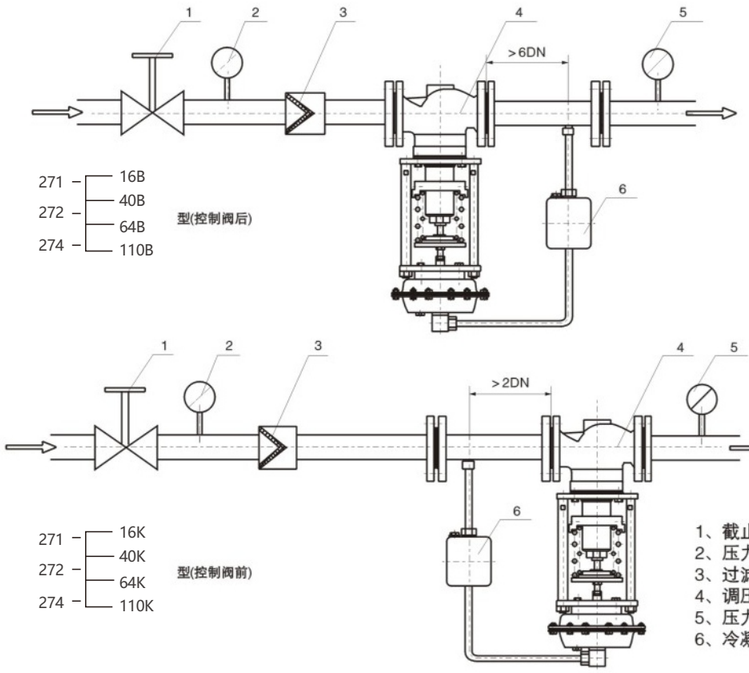
1. When the valve is used in gas or low viscosity medium, the 211 type self operated pressure regulating valve is usually installed vertically on the water quality pipe. It is only inverted or inclined when the position space is not allowed.
(When it is determined that the medium is very clean, component 3 may not be installed)
2. When valves are used in steam or high viscosity liquid media, the Type 211 self operated pressure regulating valve is usually installed upside down on a horizontal pipe



1、截止阀 2、压力表 3、过滤器 4、调压阀 5、压力表

1. Globe valve 2, Pressure gauge 3, Filter 4, Pressure regulating valve 5, Pressure gauge

自力式压力调节阀 211型
Self operated pressure regulating valve Type 211



订货须知 Ordering Instructions

阀门型号 Valve model		阀门名称 Valve name	
公称通径（mm） Nominal diameter (mm)	√	公称压力（MPa） Nominal pressure (MPa)	√
压力调节范围（MPa） Pressure regulation range (MPa)		控制阀前还是阀后 Before or after the control valve	√
压力设定值（MPa） Pressure setting value (MPa)	√	介质名称 Media Name	√
执行结构型式 Execution structure type		介质工作温度 Medium operating temperature	√
额定流量系数 Rated flow coefficient			√
阀前最大压力 Maximum pressure in front of the valve 阀前最小压力 Minimum pressure before valve 阀前正常压力 Normal pressure in front of the valve (MPa)		阀前最大压力 Maximum pressure in front of the valve 阀前最小压力 Minimum pressure before valve 阀前正常压力 Normal pressure in front of the valve (MPa)	
最大流量 Maximum flow rate 最小流量 Minimum flow rate 正常流量 Normal flow rate		液体粘度 Liquid viscosity 液体密度 Liquid density 气体密度 Gas density	
材质：阀体 阀内件 Material: Valve body Valve trim		泄漏量等级要求 (GB/T4213-92) Leakage level requirements	
工艺管道尺寸 Process pipeline size	√	耐蚀要求 Corrosion resistance requirements	
法兰面距（mm)L Flange face distance (mm) L		法兰执行标准 Flange execution standard	
所配附件 Accessories provided	冷凝器、接管、配法兰、紧固件、调压棒、取压管、取压接头 Condenser, connecting pipe, flange, fastener, pressure regulating rod, pressure tapping pipe, pressure tapping joint		

注：带“√”的必须填!
Note: Those with "√" must be filled in!

自力式减压阀组 212型
Self operated pressure reducing valve group Type 212

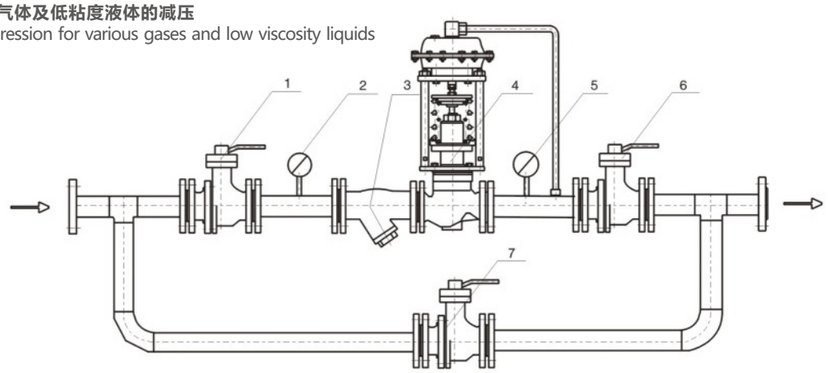
27型自力式压力调节阀不是孤零安装在管道上，而是配合其他阀门或管道联和安装在系统中，通常有单座减压阀和双路减压两种，用户可以根据需要订购

The Type 27 self operated pressure regulating valve is not installed alone on the pipeline, but in conjunction with other valves or pipelines and installed in the system. There are usually two types of pressure reducing valves: single seat pressure reducing valve and double way pressure reducing valve. Users can order according to their needs

27D型

一、单路减压用于各种气体及低粘度液体的减压

1、 Single path decompression for various gases and low viscosity liquids

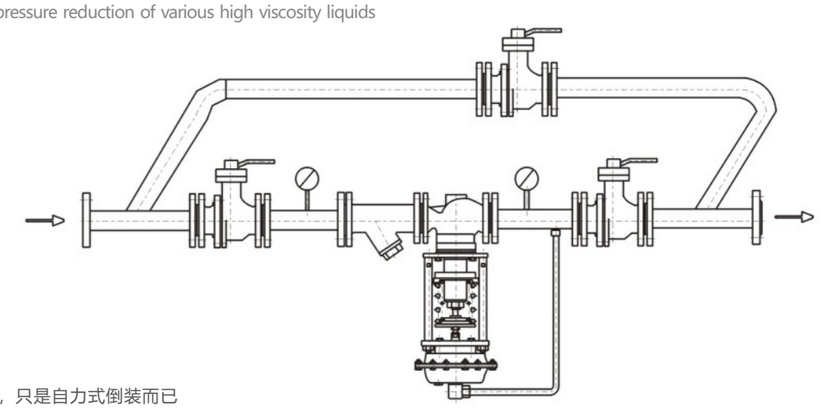


1、阀前手动球阀
2、阀前压力表
3、过滤器（介质确认无颗粒可省略）
4、自动式减压阀
5、阀前压力表
6、阀后手动球阀
7、旁通球阀
备注：1、根据需要，阀组后还可以安装、安全阀（是否允许而定）
2、旁通关可根据现场空间布置在于自力式阀同一水平面上或同一垂直面上。

1. Manual ball valve in front of the valve
2. Valve front pressure gauge
3. Filter (if the medium is confirmed to have no particles, it can be omitted)
4. Automatic pressure reducing valve
5. Valve front pressure gauge
6. Manual ball valve behind the valve
7. Bypass ball valve
Remarks: 1. According to needs, safety valves can also be installed after the valve group (whether allowed or not depends)
2. The side clearance can be arranged on the same horizontal plane or vertical plane of the self operated valve according to the on-site space.

二、用于各种高粘度液体的介质减压

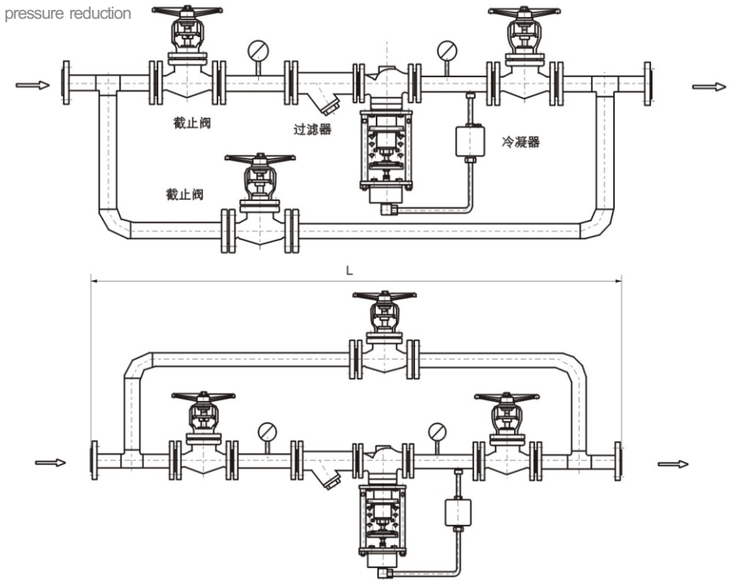
2、Used for medium pressure reduction of various high viscosity liquids



相对于气体减压而言，只是自力式倒装而已
Compared to gas decompression, it's just a self operated flip flop

自力式减压阀组 212型
Self operated pressure reducing valve group Type 212

用于蒸汽减压的自力式
Self operated type for steam pressure reduction



冷凝水使用前请灌满冷水
Please fill the condensate with cold water before use

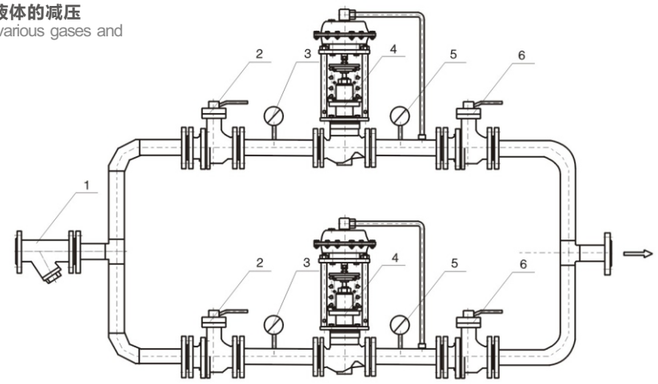
27S型

双路减压只用在工况特别重要，系统不允许出故障的系统中，平常一路工作，一路关闭备用，只要流量足够，不需要同时开启两路减压，以免出现阀开度过小产生的震荡和噪声，影响阀使用寿命。

Dual pressure relief is only used in systems where the working condition is particularly important and the system does not allow malfunctions. Normally, one circuit works and the other circuit is closed for backup. As long as the flow rate is sufficient, it is not necessary to simultaneously open both circuits of pressure relief to avoid vibration and noise caused by excessively small valve opening, which may affect the service life of the valve.

一、用于各种气体及低粘度液体的减压

1.Used for reducing pressure of various gases and low viscosity liquids

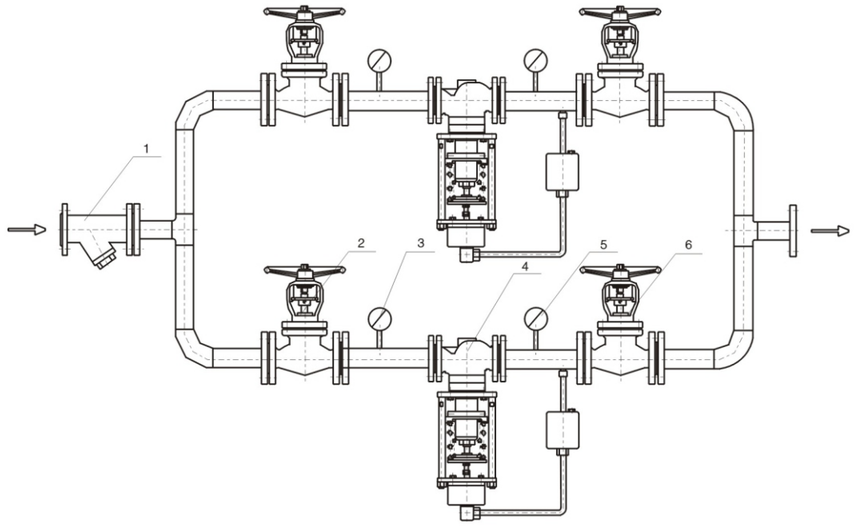


1、过滤器　2、手动球阀　3、压力表　4、自力式压力调节阀　5、压力表　6、手动球阀安装时件1前用户自配手动球阀
1. Filter 2, manual ball valve 3, pressure gauge 4, self operated pressure regulating valve 5, pressure gauge 6, manual ball valve installation component 1, user provided manual ball valve before installation

自力式减压阀组 212型
Self operated pressure reducing valve group Type 212

二、同于各种高粘度液体介质的减压同气体减压，只是自力式阀门倒装便可
三、用于蒸汽减压的自力式双路阀座

2.Similar to the pressure reduction of various high viscosity liquid media and gas, it is only possible to flip the self operated valve upside down
3.Self operated dual valve seat for steam pressure reduction



安装时件1前用户自配手动截止阀
User equipped manual globe valve before installation of component 1

设计、安装减压阀组注意事项
Precautions for designing and installing pressure reducing valve groups

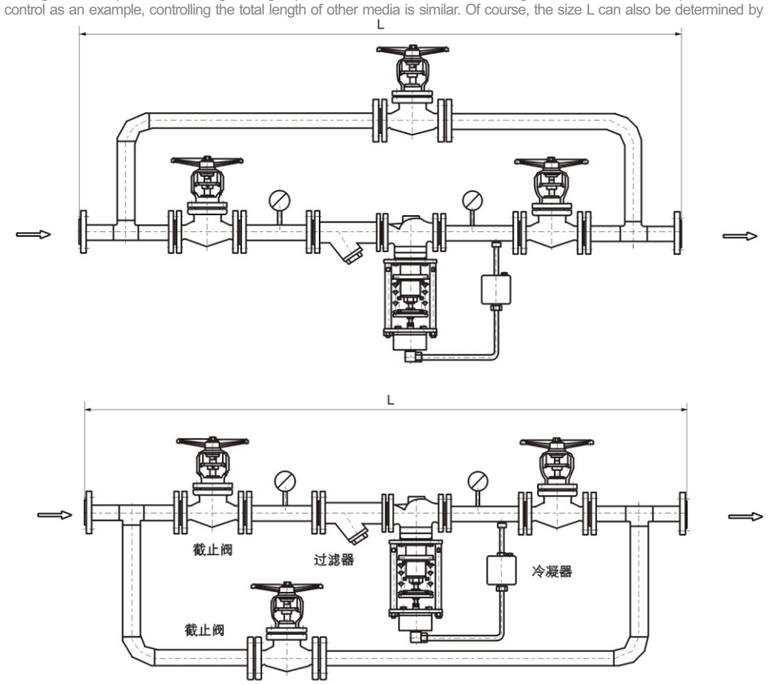
安装时，应注意以下几点：
(1)阀在气体或低粘度液体介质中使用时，通常3001型自力式压力调节阀为直立式安装在水品管上，当位置空间不允许时才倒装或斜装。
(2)阀在蒸汽或高粘度液体介质中使用时，通常3001型自力式压力调节阀为倒立安装在水平管上，冷凝器（蒸汽用自力式）应高于调压阀的执行机构而低于阀前后接管。使用前冷凝器应灌满冷水，以后约3个月灌水一次。
(3)取压点应取在调压阀适当位置，阀前调压应大于2倍管道直径，阀后调压应大于6倍管道直径。
(4)为便于现场维修及操作，调压阀四周留有适当空间。
(5)当介质为洁净气体或液体时，阀前过滤器可不安装。
(6)调压阀通径过大（DN≥100时），应有固定支架。
(7)当确定介质很洁净时，件3可不安装。
(8)位置实在不允许时，旁通阀（手动）可以省略（我们不推荐）。
(9)阀组根据需要用户可自选配止回阀，安全闵等。
(10)自力式阀根据计算通径可以小于管道直径，而截止阀、切断球阀、旁通阀、过滤器则不能小于管道直径。

When installing, the following points should be noted:
(1) When the valve is used in gas or low viscosity liquid media, the 3001 self operated pressure regulating valve is usually installed vertically on the water quality pipe. It is only installed upside down or diagonally when the position space does not allow.
(2) When valves are used in steam or high viscosity liquid media, the Type 3001 self operated pressure regulating valve is usually installed upside down on a horizontal pipe, and the condenser (self operated for steam) should be higher than the actuator of the pressure regulating valve
Connect the mechanism below the front and rear of the valve. The condenser should be filled with cold water before use, and then filled with water approximately once every 3 months.
(3) The pressure tapping point shall be taken at the appropriate position of the pressure regulating valve. The top note valve shall be greater than 2 times the pipe diameter, and the base note valve shall be greater than 6 times the pipe diameter.
(4) To facilitate on-site maintenance and operation, appropriate space should be left around the pressure regulating valve.
(5) When the medium is clean gas or liquid, the filter in front of the valve may not be installed.
(6) If the diameter of the pressure regulating valve is too large (DN ≥ 100), there should be a fixed bracket.
(7) When it is determined that the medium is very clean, component 3 may not be installed.
(8) When the position is really not allowed, the bypass valve (manual) can be omitted (we do not recommend it).
(9) The valve group can be equipped with check valves, safety valves, etc. according to user needs.
(10) Self operated valves can have a diameter smaller than the pipeline diameter according to calculations, while globe valves, shut-off ball valves, bypass valves, and filters cannot have a diameter smaller than the pipeline diameter.

自力式减压阀组 212型
Self operated pressure reducing valve group Type 212

外形尺寸
Self operated type for steam pressure reduction
减压阀组关键是总长L的确定，至于自力式阀门的尺寸件2111和2114篇，以控制蒸汽为例，控制其它介质总长类同，当然，尺寸L用户也可根据需要定

The key to determining the total length L of the pressure reducing valve group is the determination of the total length L. As for the size components 2111 and 2114 of the self operated valve, taking steam control as an example, controlling the total length of other media is similar. Of course, the size L can also be determined by users according to their needs



DN	L	
	PN16/25/20/40	PN50/60/100/110
20/H/4"	1433	1673
25	1463	1673
32	1652	1812
40	1862	2042
50	2043	2253
65	2582	2732
80	2642	2852
100	3073	3313
125	3580	3880
150	3970	4180
200	4750	4900
250	5640	5775
300	6450	6600

指挥器操作式自力式压力调节阀214型
Pilot operated self-operated pressure regulating valve type 214

214型带指挥器操作式自力式压力调节阀(简称压力阀)无需外加能源，利用被调介质自身能量为动力源，引入压力阀的指挥器以控制压力阀的阀芯位置，改变流经阀门的介质流量，使阀门后端压力(B型)或前端压力(K)型保持恒定，214型主要用在阀前压力较高(0.2-0.8MPa)而阀后力很低(0.5-100KPa)，例如5ommH2O(水柱)的场合，214型只用在泄氮装置上，并且与供氮装置配套使用。单独使用时请用ZZVP阀代替。

1、气压减压

如阀前O.2-0.8MPa(高于0.8MPa阀前面应加减压阀)，阀后0.5~100KPac

2、氮封装置

供氮和泄氮装置上

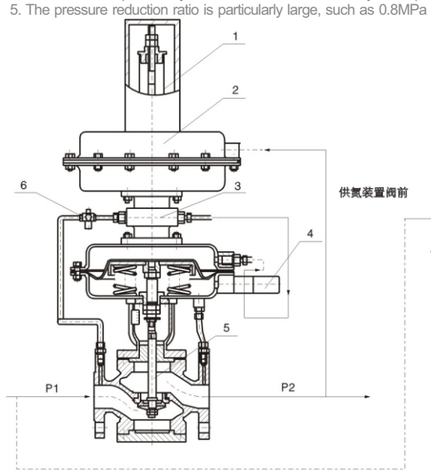
The 214 type self operated pressure regulating valve with a controller (referred to as the pressure valve) does not require external energy and uses the energy of the regulated medium as the power source. The controller of the pressure valve is introduced to control the position of the valve core, change the flow rate of the medium flowing through the valve, and keep the rear pressure (B type) or front pressure (K) of the valve constant. The 214 type is mainly used for high front pressure (0.2-0.8MPa) and low rear pressure (0.5-100KPa), For example, in the case of 5mmH2O (water column), the 214 model is only used on the nitrogen relief device and is used in conjunction with the nitrogen supply device. Please use ZZVP valve instead when used alone.

1. Atmospheric pressure reduction
If the front of the valve is 0.2-0.8MPa (above 0.8MPa, a pressure reducing valve should be added in front of the valve), and the back of the valve is 0.5-100KPac
2. Nitrogen sealing device
On nitrogen supply and discharge devices

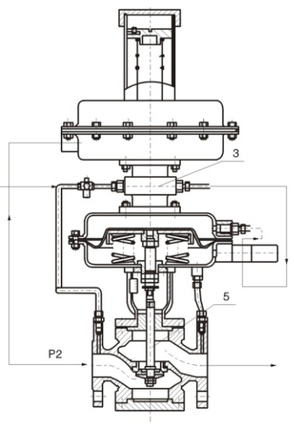
特点 Feature

1、压力设定在指挥器上实现，因而方便、便捷、省力省时且可在运行状态下连续设定。
2、控制精度比211型自力式高1倍左右,故适合在控制精度高的场合使用。
3、对同一台阀而言，调节范围比211型自力式广。
4、反应特别灵敏，极小的压力(如50mm水柱的压力)或极小的压力变化都可以感染出来。
5、减压比特别大，例如阀前0.8MPa，阀后50mmH2O，压差比达1600。

1. The pressure setting is achieved on the controller, making it convenient, convenient, labor-saving, and time-saving, and can be continuously set during operation.
2. The control accuracy is about twice that of the 211 type self operated type, making it suitable for use in situations with high control accuracy.
3. For the same valve, the adjustment range is wider than the 211 self operated type.
4. The reaction is particularly sensitive, and even extremely small pressures (such as a pressure of 50mm water column) or small pressure changes can be infected.
5. The pressure reduction ratio is particularly large, such as 0.8MPa in front of the valve and 50mmH2O behind the valve, with a pressure difference ratio of 1600.



控制阀后（214-16B）
(供氮装置)
Behind control valve (214-16B)
(Nitrogen supply device)



控制阀前（214-16K）
(泄氮装置)
Control valve front (214-16K)
(Nitrogen relief device)



1、压力设定弹簧 2、指挥器执行机构 3、指挥阀 4、针阀 5、主阀 6、空气过滤减压器
1. Pressure setting spring 2. Command actuator 3. Command valve 4. Needle valve 5. Main valve 6. Air filter pressure reducer

其中214-16B型阀可以用1台2111自力式阀+1台212型微压阀代替。
其中214-16K型阀可以用1台212型微压阀代替。

The 214-16B valve can be replaced by one 2111 self operated valve and one 212 micro pressure valve.
The 214-16K type valve can be replaced by one 212 type micro pressure valve.

指挥器操作式自力式压力调节阀214型
Pilot operated self-operated pressure regulating valve type 214

连接尺寸及标准

法兰标准：GB/T9124.1-2019;
法兰密封面型式:凸面;
信号接口：内螺纹M16×1.5;
阀体法兰及法兰端面距离可以按用户指定的标准制造,如ANSI、JIS、JPI等标准

型号编制说明

2:自力式产品系列
1:薄膜执行机构
4:指挥器操作型

订货须知

订货时请用户提供以下资料:
调压阀名称、型号
公称通径(mm)
公称压力(MPa)
额定流量系数(Kv)
固有流量特性
介质名称
工作压力及范围
阀体、阀内件及填料材质　　其它特殊要求

Connection dimensions and standards

Flange standard: GB/T9124.1-2019;
Flange sealing surface type: convex surface;
Signal interface: internal thread M16 × 1.5;
The distance between the valve body flange and the flange end face can be manufactured according to user specified standards, such as ANSI, JIS, JPI, etc

Model preparation instructions

2: Self operated product series
1: Thin film actuator
4: Command operation type

Ordering Instructions

Please provide the following information when placing an order:
Name and model of pressure regulating valve
Nominal diameter (mm)
Nominal pressure (Mpa)
Rated flow coefficient (Kv)
Inherent flow characteristics
Media Name
Working pressure and range
Other special requirements for valve body, trim, and packing materials

主要零件材料 Material for main parts

零件名称 Part Name	材料 Material
阀体 Valve body	ZG230-450、ZGOCr18Ni9、ZGOCr18Ni12Mo2
阀芯 Spool	1Cr18Ni9、OCr18Ni12Mo2(堆焊Stellite) PTFE
阀座 Valve seat	1Cr018Ni9、OCr18Ni12Mo2(堆焊Stellite)
阀杆 Valve stem	1Cr18Ni9、OCr18Ni12Mo2
橡胶膜片 Rubber diaphragm	丁腈橡胶夹增加强涤纶织物 Nitrile rubber clip adds strong polyester fabric
膜盖 Membrane cover	Q235、Q235涂PTFE
O形圈 O-ring	耐油橡胶、聚四氟乙烯 Oil resistant rubber, polytetrafluoroethylene

主要技术参数和性能指标 Main technical parameters and performance indicators

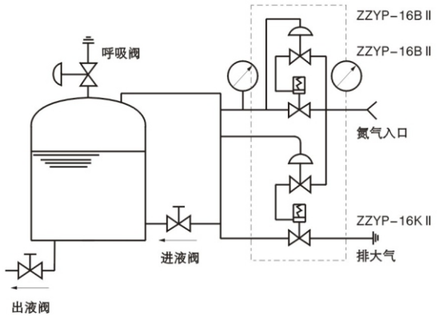
公称通径DN(mm) Nominal diameter DN (mm)	20			25	32	40	50	65	80	100	125	150
阀座直径D(mm) Valve seat diameter D (mm)	6	15	20	25	32	40	50	65	80	100	125	150
额定流量系数Kv Rated flow coefficient Kv	0.32	4	5	8	12.5	20	32	50	80	125	160	320
压力调节范围KPa Pressure regulation range KPa	0.5-100范围内选取 Select within the scope											
公称压力PN(MPa) Nominal pressure PN (MPa)	1.0　1.6											
被调介质温度(℃) Temperature of the adjusted medium (℃)	-40~80											
流量特性 Flow characteristics	快开 Quick open											
调节误差(%) Adjustment error (%)	≤5											
允许压降(MPa) Allowable pressure drop (MPa)	1.6				1.6		1.1	0.4		0.6		
执行机构薄膜有效面积(cm^2) Effective area of actuator film (cm^2)	200				280			400				
允许泄漏量 Permissible leakage	硬阀芯Hard valve core：Ⅳ级(10^{-4}xKv)　软阀芯Soft valve core：Ⅵ级(GB/T4213-2008)											

指挥器操作式自力式压力调节阀214型
Pilot operated self-operated pressure regulating valve type 214

应用举例 Application examples

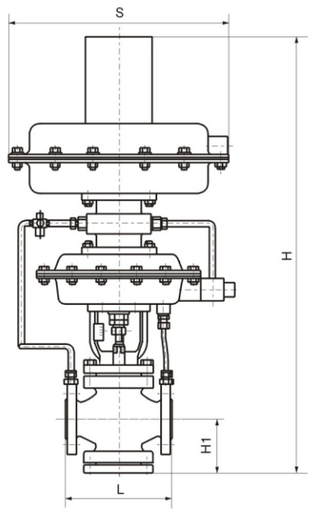
1、代替212型微压阀
　212型微压阀阀前一般要求介质压力≤0.1MPa，而214B型带指挥器操作式自力式压力调节阀则不受此限制。
2、用于氮封装置
　氮封装置的出罐内成品油上端覆盖氮气，其压力一般在100mmH2左右，通过氮封保护装置加以控制。出液阀开启放油时，出罐内液位下降，此时，214B型供氮调节阀开度增加，向出罐内补充氮气使压力增加到设定值为止。进液阀开启进油时，液位上升，气相部分容积减小，氮气压力上升，此时214B型供氮调节阀关闭，而214B型泄漏调节阀在压力控制器作用下开启，排出氮气使压力降至设定值。为确保储罐安全，应在罐顶设置呼吸阀。供氮压力调整:在214B型压力调节阀选定-设定值如1KPa(100mm.W.C)，通过调整主弹簧2的预压缩(拉伸)量来达到;泄氮压力调整:在214K型泄放阀中的压力控制器部分，通过调整主弹簧预压缩量达到，一般为避免氮封装置启闭频繁，泄氮设定值应远离供氮压力设定值，如2KPa(200mm.W.C)。呼吸阀设定值调整:在上述两设定值调整好后，为避免呼吸阀启闭频繁，呼吸阀设定值应大于泄压设定值。两者设定值亦不能靠得太近。呼吸阀型号为:216型。214B型压力设定值为Pc，214K型压力设定值P1，Pc与P1两值不能靠得太近，以免阀门工作太频繁，呼吸阀的排放压力P2的设定值应大于P1，P2与F1两值也不能靠得太近，三者关系Pc＜P1＜P2。

1. Replacing the 212 type micro pressure valve
The 212 type micro pressure valve generally requires a medium pressure of ≤ 0.1MPa in front of the valve, while the 214B type self operated pressure regulating valve with a command is not subject to this restriction.
2. For nitrogen sealing device
The upper end of the finished oil in the nitrogen sealing device is covered with nitrogen gas, and its pressure is generally around 100mmH2, which is controlled by the nitrogen sealing protection device. When the outlet valve is opened to drain oil, the liquid level in the outlet tank decreases. At this time, the opening of the 214B nitrogen supply regulating valve increases, and nitrogen is added to the outlet tank to increase the pressure to the set value. When the oil inlet valve is opened, the liquid level increases, the volume of the gas phase decreases, and the nitrogen pressure increases. At this time, the 214B nitrogen supply regulating valve is closed, while the 214B leakage regulating valve is opened under the action of a pressure controller, and nitrogen is discharged to reduce the pressure to the set value. To ensure the safety of the storage tank, a breathing valve should be installed on the top of the tank. Nitrogen supply pressure adjustment: When selecting the 214B pressure regulating valve with a set value of 1KPa (100mm. W. C), adjust the pre compression (stretching) amount of the main spring 2 to achieve this; Nitrogen relief pressure adjustment: In the pressure controller part of the 214K relief valve, the main spring pre compression shrinkage is adjusted to achieve. Generally, to avoid frequent opening and closing of the nitrogen sealing device, the nitrogen relief setting value should be far away from the nitrogen supply pressure setting value, such as 2KPa (200mm. W. C). Adjustment of the setting value of the breathing valve: After adjusting the above two settings, in order to avoid frequent opening and closing of the breathing valve, the setting value of the breathing valve should be greater than the pressure relief setting value. The two settings should not be too close together. The breathing valve model is: 216 type. The pressure setting value for the 214B type is Pc, and the pressure setting value for the 214K type is P1. The values of Pc and P1 should not be too close together to prevent the valve from working too frequently. The setting value for the discharge pressure P2 of the breathing valve should be greater than P1, and the values of P2 and F1 should not be too close together. The relationship between the three values is Pc<P1<P2.



外形尺寸与重量 Overall dimensions and weight

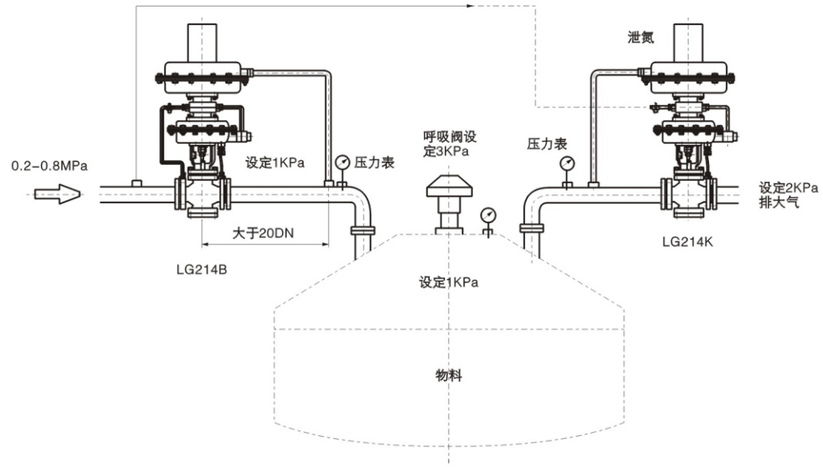
DN	L	S	H1	H
20	150	308	390	715
25	160	308	390	715
32	180	308	390	735
40	200	394	435	755
50	230	394	435	755
65	290	394	435	795
80	310	394	435	795
100	350	394	435	825
150	480	498	565	1105

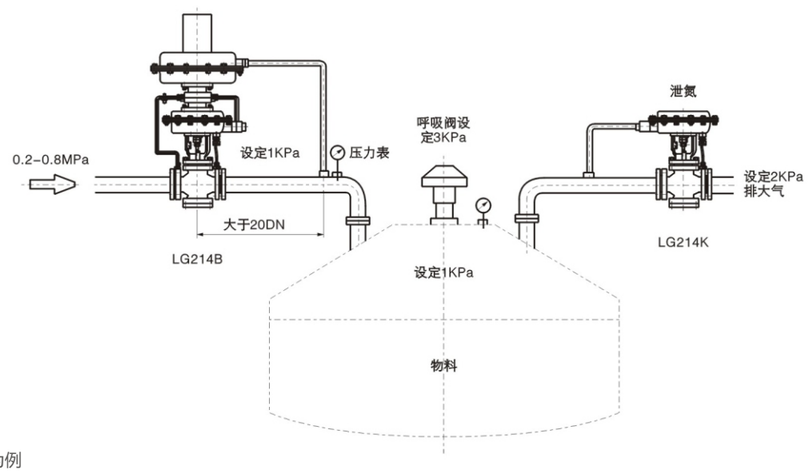


指挥器操作式自力式压力调节阀214型
Pilot operated self-operated pressure regulating valve type 214

应用设计案例
Application Design Cases

氮封装置原理图





上例以储罐1KPa为例
1、214B型阀门的取压位置应离储罐(或缓冲罐)较近。
2、压力表应至于取压点不远处，以免引起不必要的争议。
3、214B型阀后管道不宜太小(一般大于阀前管道)。

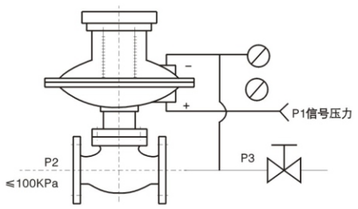
The above example takes the storage tank 1KPa as an example
1. The pressure tapping position of the 214B valve should be close to the storage tank (or buffer tank).
2. The pressure gauge should be located not far from the pressure measuring point to avoid unnecessary disputes.
3. The pipeline behind the 214B valve should not be too small (generally larger than the pipeline before the valve).

自力式微压调节阀/自力式差压调节阀 215V型
Self-operated micro pressure regulating valve /self-operated differential pressure regulating valve 215V type

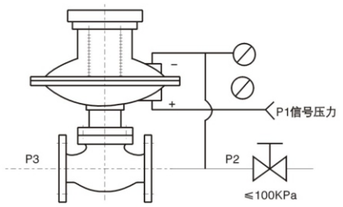
215V型自力式差压阀是一种不需要外加能源而能自动调节一种或两种介质压差，使压差维持在恒定值，如在工业炉气体燃烧系统中，用于控制甲、乙两种燃料混合比流量调节,达到理想的燃烧条件，节省燃料及投资，也可以作为煤气、天然气、液化石油气、氨气、氮气、氧气等各种工业气体的减压、微压、差压的调节系统中。还可用于氢冷发电机组密封油系统,控制密封油与氢气间的压力差，以确保可靠密封。

微压阀控制阀前时可替代214K型带指挥器操作式自力式压力调节阀。
当差压阀的低压端通大气即成为微压阀(见图二)213型自力式压差调节阀和212型自力式微压调节阀主要特点为:
1、对单座微(差)压阀而言，若阀前压力≥100KPa则安装3001P型自力式进行减压至≤100KPa，因此可用于压力特别小的场合(例如0.5KPa)
2、执行机构元件极为灵敏,极微小的压力变化会感测出来。
3、压力调节极为方便,无需停止生产即可进行设定值调整。

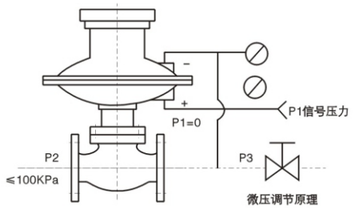
The 215V type self operated differential pressure valve is a type of valve that can automatically adjust the pressure difference of one or two media without the need for external energy, so as to maintain a constant pressure difference. For example, in the gas combustion system of industrial furnaces, it is used to control the mixing ratio and flow rate of A and B fuels, achieve ideal combustion conditions, save fuel and investment, and can also be used as a pressure reducer, micro pressure regulator for various industrial gases such as gas, natural gas, liquefied petroleum gas, ammonia, nitrogen, oxygen, etc In the differential pressure regulation system. It can also be used in the sealing oil system of hydrogen cooled generator units to control the pressure difference between the sealing oil and hydrogen gas to ensure reliable sealing.
The micro pressure valve can replace the 214K type self operated pressure regulating valve with a command when controlling the front of the valve.
When the low-pressure end of the differential pressure valve is opened to the atmosphere, it becomes a micro pressure valve (see Figure 2). The main characteristics of the 213 type self operated differential pressure regulating valve and the 212 type self operated micro pressure regulating valve are:
1. For single seat micro (differential) pressure valves, if the pressure in front of the valve is ≥ 100KPa, install the 3001P self operated type to reduce the pressure to ≤ 100KPa, so it can be used in particularly low pressure situations (such as 0.5KPa)
2. The actuator components are extremely sensitive, and extremely small pressure changes can be sensed.
3. The pressure adjustment is extremely convenient, and the set value can be adjusted without stopping production.



阀后压力调节
△P=P1−P2
差压调节原理



阀后压力调节



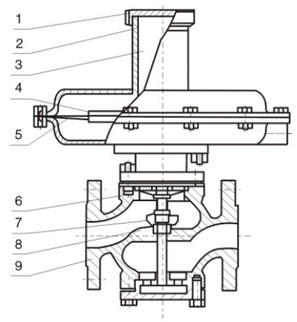
微压调节原理
阀后力调节系统



图一 差(微)压调节阀外形图

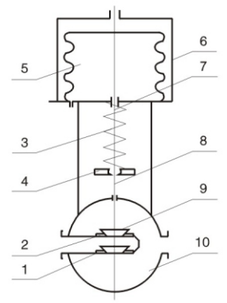

(图二)

自力式微压调节阀/自力式差压调节阀 215V型
Self-operated micro pressure regulating valve /self-operated differential pressure regulating valve 215V type



对图三而言

序号 No.	名称 Name	材质 Material quality
1	封盖 Cover	2Cr13
2	弹簧座 Spring seat	45
3	弹簧 Spring	60Si2Mn
4	托盘 Tray	16Cr18Ni9Ti
5	膜片 Diaphragm	丁腈橡胶
6	小膜片 Small diaphragm	耐油橡胶
7	阀芯 Spool	PTFE
8	阀座 Valve seat	1Cr18Ni9Ti
9	阀体 Valve body	ZG230-450 ZG1Cr18Ni9Ti



对图四而言

序号 No.	名称 Name	材质 Material quality
1	上阀座 Upper valve seat	1Cr18Ni9Ti
2	下阀座 Lower valve seat	1Cr18Ni9Ti
3	调节盘 Adjusting disc	2Cr13
4	弹簧座 Spring seat	45
5	波纹管 corrugated pipe	1Cr18Ni9Ti
6	执行机构外腔 Outer chamber of actuator	Q235
7	推杆 Push rod	2Cr13
8	阀杆 Valve stem	1Cr18Ni9Ti
9	阀芯 spool	1Cr18Ni9Ti
10	阀体 valve body	ZG230-450

主要技术参数和性能指标(表一) Main technical parameters and performance indicators (Table 1)

公称通径DN(mm) Nominal Diameter		20	25	32	40	50	65	80	100
额定流量系数Kv Rated flow coefficient Kv	ZZCP/ZZVP	5	8	12.5	20	32	50	80	125
	ZZCN	-	-	-	-	53	83	-	-
额定行程(mm) Rated stroke (mm)		5	6		10		15		20
公称压力PN(MPa) Nominal pressure PN (Mpa)		0.10 1.0							
差压调节范围 (KPa) 一般设计范围 Differential pressure adjustment range (KPa) General design scope		0.5~5.5 5~10 9~14 13~19 18~24 22~28 26~33 31~38 36~44 42~51 49~59 56~66 64~78 76~90 88~100							
介质温度(℃) Medium temperature (℃)		≤80							
调节精度(%) Adjustment accuracy (%)		≤10							
允许泄漏量 (l/h) Permissible leakage (l/h)	ZZCP/ZZVP	硬密封10 x阀额定容量(Ⅳ级)(GB/T4213-2008) Hard seal 10 x valve Nameplate capacity (Class IV) (GB/T4213-2008)							
		软密封:Ⅵ级 Soft sealing: Class VI							
	ZZCN	5x10 x阀额定容量(Ⅲ级)(GB/T 4213-2008) 5x10 x valve Nameplate capacity (Class III) (GB/T 4213-2008)							

注:1、215V型公称压力为1.0MPa，2152型为1.6MPa
2、215V型差压调节范围为36~44，42~51，49~58，56~66，64~78，76~90，88~100KPa。
Note: 1. The nominal pressure of the 215V type is 1.0MPa, while the 2152 type is 1.6MPa
2. The 215V type differential pressure regulation range is 36-44, 42-51, 49-58, 56-66, 64-78, 76-90, 88-100KPa.

自力式微压调节阀/自力式差压调节阀 215V型
Self-operated micro pressure regulating valve
/self-operated differential pressure regulating valve 215V type

差(微)压阀调节范围的确定

差(微)压调节范围的分段,见表一。
控制房范围(控制点)应选取在中间期附件。

Determination of the adjustment range of differential (micro) pressure valve

The segmentation of differential (micro) pressure adjustment range is shown in Table 1.
The scope of the control room (control points) should be selected in the interim attachment.

整机作用方式的确定

差(微)压调节阀有B型K型两种。B型阀阀芯初始位置常开，差(微)压增大时开度减少甚至闭合K型阀阀芯初始位置常闭，差(微)压增大时阀开度增大。

Determination of the operation mode of the entire machine

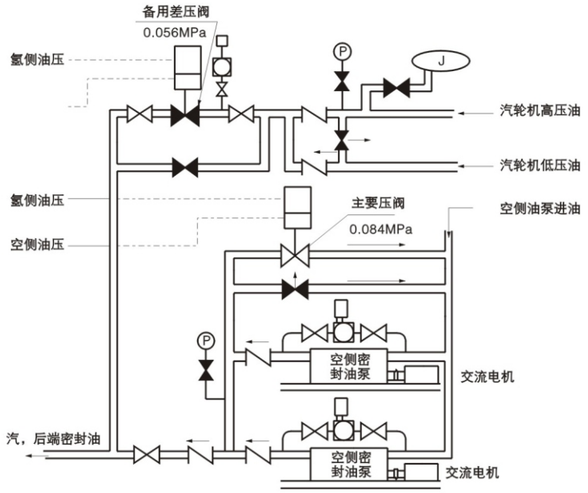
There are two types of differential (micro) pressure regulating valves: B-type and K-type. The initial position of the B-type valve core is usually open, and the opening decreases or even closes when the differential (micro) pressure increases. The initial position of the K-type valve core is usually closed, and the valve opening increases when the differential (micro) pressure increases.

应用举例

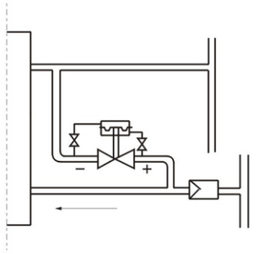
A、氢冷发电机组密封油系统
B、风机加热系统循环风量控制机
C、两种气体流量的配比控制
D、泵旁路调节

Application examples

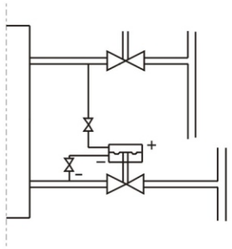
A. Sealing oil system of hydrogen cooled generator unit
B. Fan heating system circulating air volume control machine
C. Proportional control of two gas flow rates
D. Pump bypass regulation



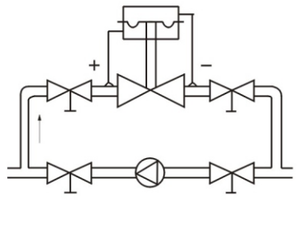
A：氢冷发电机组密封油系统



B、风机加热系统循环风量控制机



C、两种气体流量的配比控制



D、泵旁路调节

微压阀控制阀前时可替代LG214K型带指挥器操作式自力式压力调节阀

型号编制说明

215V-10B 215V-10K
2：自力式产品系列
1：薄膜执行机构
2：微压产品
1：单座结构
2：笼式结构
4：双座结构

Application examples

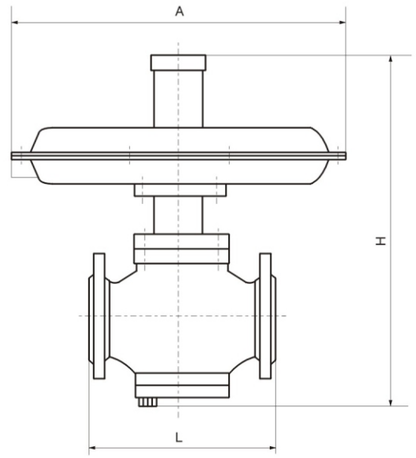
215V-10B 215V-10K
2: Self operated product series
1: Thin film actuator
2: Micro pressure products
1: Single seat structure
2: Cage structure
4: Double seat structure

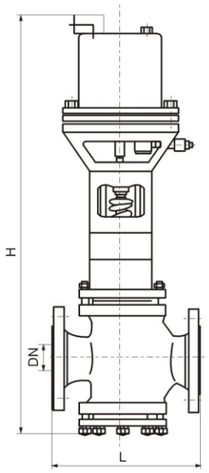
10：PN1.0MPa
B：压力（差压）增加阀关闭
K：压力（差压）增加阀开启

10: PN1.0MPa
B: Pressure (differential pressure) increase valve closed
K: Pressure (differential pressure) increase valve opens

自力式微压调节阀/自力式差压调节阀 215V型
Self-operated micro pressure regulating valve
/self-operated differential pressure regulating valve 215V type







DN		20	25	32	40	50	65	80	100
A		308	394	308	394	308	394	394	394
H	ZZCP/ZZVP	376	465	365	445	448	490	490	510
	ZZCN	-	-	-	-	536	536	-	-
L	ZZCP/ZZVP	150	160	180	200	230	290	310	350
	ZZVN	-	-	-	-	220	222	-	-
重量G（Kg） Weight		12	18	25	32	45	58	68	76
导压管螺纹接头 Pressure pipe threaded joint		M16x1.5							

订货须知 Ordering Instructions

请提供详细介质参数(阀前后压力、温度、状态)、介质名称、阀公称压力、公称通径、调节系统详图(系统控制较复杂时)。

Please provide detailed medium parameters (pressure, temperature, status before and after the valve), medium name, valve nominal pressure, nominal diameter, and detailed diagram of the regulating system (when the system control is complex).

Kinko

售后服务和质量保证承诺

随着国家市场经济的深入发展，市场竞争日趋激烈，广大用户对产品的要求也越来越高，并且对售后服务方面的要求也越来越多，为此，我公司质量管理部门为适应市场发展的要求，专门设立了售后服务组、配备了专职服务人员负责处理我公司产品售后服务事宜。同时我公司在内部质量管理方面也作出了多方努力，获得了ISO9001质量体系认证、CE认证和多项专利证书等，为此我公司完全可以做到：

一、产品配发检验合格证书和说明书，以确保用户能正确安装适用我公司产品。

二、我公司保证出厂的产品均按有关国际标准生产和检验，不合格的产品绝不出厂。保证严格履行、兑现产品的四包，严格执行国家工业产品售后服务有关规定，对出厂产品自发货日起的十二个月内，在产品说明书规定的正常操作条件下我公司将负责质保期内质量完好。

三、如用户对我公司产品提出的质量异议，我公司保证在接到用户提出异议后2小时内作出处理意见。若需要现场解决的，保证派出专业技术服务人员，并做到质量问题不解决服务人员不撤离。对每件用户反馈的产品质量问题及处理结果我公司将存档。

以上三点是我公司对售后服务的承诺。竭诚欢迎广大用户指导修正，请提出宝贵意见，参照改进。真诚希望我们之间合作愉快。

浙江金科流体设备有限公司

Kinko

AFTER-SALES SERVICE QUALITY ASSURANCE COMMITMENT

With the further development of a national market economy, the increasingly fierce market competition, the majority of users of the product requirements also more and more high, and more and more demand for after -sale services, to this end, our quality management department in order to adapt to the requirement of market development, set up special after-sale service group, equipped with full-time service personnel shall be responsible for handling matters of our company product after-sales service. At the same time, our company has also made many efforts in internal quality management and obtained ISO9001 quality system certification, CE certification and a number of patent certificates, etc. To this end, our company is fully capable of:

I. The products shall be issued with inspection certificates and instructions. I. to ensure that the users can correctly install and apply the products of our company.

II. Our company guarantees that the products are produced and inspected in accordance with the relevant international standards, and unqualified products will never leave the factory. We promise to strictly perform and deliver the four packages of products, strictly implement the relevant regulations of national industrial products after-sales service, and within 12 months from the date of delivery of the products, we will be responsible for the quality of the products within the warranty period under the normal operating conditions specified in the product manual.

III. If the user has any objection to the quality of our products, we promise to make Suggestions within 2 hours after receiving the objection. If it needs to be solved on site, it shall ensure that professional technical service personnel are dispatched, and the service personnel shall not be evacuated until quality problems are solved. We will archive the quality problem and result of every feedback.

The above three points are our company's commitment to after-sales service. We sincerely welcome your comments and Suggestions for improvement. We sincerely hope that we can have a pleasant cooperation.

ZHEJIANG KINKO FLOW EQUIPMENT CO., LTD.