

ESG[®]

锂电池行业 解决方案

BEST SOLUTION FOR LITHIUM BATTERY INDUSTRY

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Elite Valves For The World!

为世界 造好阀



ESG[®]

青岛精锐机械制造有限公司

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打造行业顶级标杆，铸就百年幸福企业

Set the ultimate industry benchmark. Build a thriving enterprise for generations.

为世界 造好阀



青岛精锐机械制造有限公司（后简称“ESG”）是集阀门的研发、生产、销售于一体的高新技术企业、专精特新“小巨人”企业、山东省瞪羚企业。公司密切关注客户需求，致力于成为流体过程控制系统解决方案领跑者。

自2001年成立以来，ESG已获得专利130余项，其中发明专利16项。公司着力打造HCPS智能制造工厂，主要产品涵盖工业级阀门、卫生级阀门及相关控制部件。角座阀、梭阀、隔膜阀、蝶阀、球阀、疏水阀、膜塞阀等多种主流阀门系列产品广受客户好评。阀门产品远销82个国家，服务范围覆盖核工业、新能源、医药、食品饮料、橡胶轮胎等19个重点行业，9家世界五百强企业。

Qingdao Elite Machinery Manufacture Co., Ltd. (hereinafter referred to as "ESG") is a high-tech enterprise integrating the R&D, production, and sales of valves. ESG has been recognized as a national-level Specialized, Refined, Differentiated and Innovative (SRDI) "Little Giant" enterprise and a Shandong Province Gazelle Enterprise. The company pays close attention to customer needs and is committed to becoming a leader in fluid process control system solutions.

Since its establishment in 2001, ESG has obtained over 130 patents, including 16 invention patents. The company is dedicated to building an HCPS intelligent manufacturing factory. Its main products cover industrial-grade valves, sanitary-grade valves, and related control components. A wide range of mainstream valve series — including angle seat valves, shuttle valves, diaphragm valves, butterfly valves, ball valves, steam traps, and membrane plug valves — are widely acclaimed by customers. ESG products are exported to 82 countries, serving 19 key industries such as nuclear industry, new energy, pharmaceuticals, food & beverage, and rubber & tire manufacturing, with 9 Fortune Global 500 companies among its clients.





填补新能源行业空白，打造标杆，赋能行业高质量发展

在新能源锂电池制造过程中，电解液残留结晶易造成阀门堵塞，缩短阀门使用寿命。ESG膜塞阀是专门为电解液灌装设备自主研发的系列产品，耐真空、耐电解液腐蚀、密封性好、无残留、在线检修。

锂电池灌装对阀门的精度要求极高，需确保电解液的精确计量和稳定输送，ESG开发的真空比例阀集成度高，通过简单控制实现精确调节，节省70%空间，节约2/3能耗，便于维护，综合成本大幅降低。同时，ESG不断探索，聚焦客户需求，新开发出高精度注液针阀，轴液阀等系列产品。

当前电解液灌装领域阀门产品基本被国外厂商垄断，售后服务滞后，ESG膜塞阀寿命是进口阀门的3-5倍，为客户降本400%以上！ESG高集成真空比例阀解决了进口阀门存在的成本高、周期长、特殊算法调制、维护不便、售后服务滞后等问题。

Fill the gaps in the new energy industry, create benchmarks, and empower the high-quality development of the industry

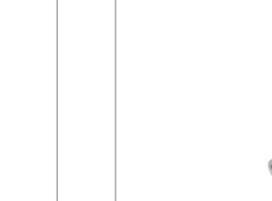
In the manufacturing process of new energy lithium batteries, residual crystallization of electrolyte filling is easy to cause valve blockage and shorten the service life of valve. ESG CAV is a series of products specially developed for electrolyte filling equipment, vacuum resistance, electrolyte corrosion resistance, good sealing, no residue, online maintenance.

Lithium battery filling has extremely high precision requirements for the valve, which needs to ensure the accurate measurement and stable transmission of the electrolyte. The vacuum proportional valve developed by ESG has a high integration degree, which can be accurately adjusted through simple control, saving 70% space, saving 2/3 energy consumption, easy maintenance, and greatly reducing the comprehensive cost. At the same time, ESG continues to explore, focus on customer needs, and newly developed high-precision needle filling valve, coaxial filling valve and other products.

Currently, valve products in the field of electrolyte filling are basically monopolized by foreign manufacturers, and after-sales service is lagging. The service life of ESG CAV is 3-5 times that of imported valves, reducing the cost for customers by more than 400%! ESG highly integrated vacuum proportional valve solves the high cost of imported valves, long cycle, special algorithm modulation, inconvenient maintenance and lagging after-sales service.



目录 Contents

			
膜塞阀 Pneumatic Diaphragm Valve	注液针阀 Drip Proof Needle Valve	真空注液阀 Vacuum filling valve	角式隔膜阀 Diaphragm Angle valve
05-24	25-29	30-32	33-36
			
梭阀 Shuttle Valve	角座阀 Angle Seat Valve	比例调节角座阀 Proportional Control Angle Seat Valve	
37-38	39-51	52-56	



技术参数 Technical Specification

工作介质 Applicable Fluid	水、空气、电解液、中性气体或液体、有机溶剂等 Water, air, electrolyte, neutral gas or liquid, organic solvent, etc.
介质压力 Operating pressure	-0.1MPa~1MPa
介质温度 Fluid temperature	-10°C~110°C
环境温度 Ambient temperature	-10°C~60°C
控制介质 Control fluid	洁净的压缩空气或中性气体 Filtered compressed air or neutral gas
控制气源压力 Control Pressure	0.5MPa~0.7MPa
阀体材质 Material of Body	CF8M (316)
密封材质 Seal material	PTFE
气缸材质 Actuator material	CF8 (304) /铝合金 CF8 (304) / Aluminum alloy

特点

1. 膜塞阀阀体直通式设计，具有高流通性和低残留的优点；
2. 隔膜式设计，杜绝介质与阀体以外的零部件接触，具有高安全性和高可靠性；
3. 膜片材质为PTFE，使用寿命长，耐腐蚀性能强，适用温度范围图广；
4. 密封形式为非金属-金属形成的密封副，锥面密封，寿命更长、性能更优；
5. 体积小，重量轻，管道布巴更紧凑，应力更小；
6. 耐负压；
7. 适用于易结晶工况；
8. 推荐流向安装，防水锤；
9. 可实现在线维修。

使用注意事项

1. 本产品为气控装置，控制气源必须是洁净的压缩空气或中性气体
2. 本产品流道清洗时小心刮伤，以防介质结晶
3. 本产品不可超限压使用，以防设备内部损坏
4. 本产品缸体不可冲击或挤压以防变形
5. 正常存储温度：-10°C~60°C
6. 阀门出现故障时不得私自拆修

Advantages

- 1.The CAV (diaphragm valve) adopts a diaphragm design with high elasticity and flexibility
- 2.Isolation-type regulation prevents the medium from contacting valve components, ensuring high safety and reliability
- 3.The diaphragm is made of PTFE, featuring long service life, excellent corrosion resistance, and a wide applicable temperature range
- 4.The sealing type is metal-to-metal conical hard seal (conical surface seal), with longer service life and better performance
- 5.Small volume, light weight, enabling more compact pipeline layout and lower stress
- 6.Full-bore design
- 7.Suitable for easy-crystallization working conditions
- 8.Recommended to install in the specified flow direction to prevent water hammer
- 9.Online maintenance is feasible

Precautions during use

- 1.This product is a pneumatic device; the control air supply must be clean compressed air or neutral gas
- 2.When cleaning the product's flow pipeline, handle with care to avoid scratching the pipeline (to prevent medium crystallization)
- 3.Do not use this product beyond the pressure limit, as this may cause internal equipment damage
- 4.Do not impact or squeeze the product's cylinder to avoid deformation
- 5.Normal storage temperature: -10°C~60°C
- 6.Do not disassemble or repair the valve by yourself if it malfunctions

常见故障及解决 Common Errors and Solutions

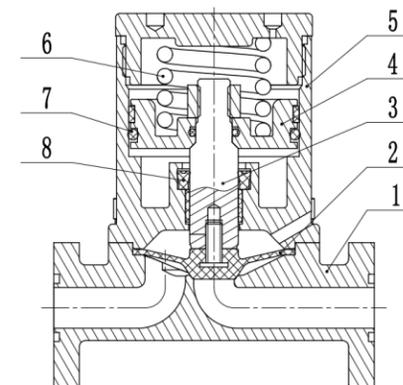
故障说明 Fault description	原因 Reason	解决办法 Solution
介质不流通或流通不畅 The medium is not flowing or does not flow smoothly	阀体通道堵塞 Valve body blockage	清洗管道 Clean the pipeline
	阀门未打开 The valve is not open	检查气源管路，检查排气口是否堵塞 Check whether the gas source pipeline is blocked
	气源压力过低 The Air supply pressure is low	增加气源压力 Increase the gas source pressure
	膜片损坏 Diaphragm damage	更换膜片 Replace the diaphragm
阀门关闭不严 The valve is not closed tightly	工作介质压力过高 The medium pressure is too high	降低工作介质压力 Reduce the medium pressure
	膜片损坏 Diaphragm damage	更换膜片 Replace the diaphragm
阀门关闭速度慢 The valve closes slowly	气缸排气不畅 Reduce the medium pressure	检查排气口是否堵塞 Check whether the exhaust hole is blocked
	连接小孔泄露 Leakage occurs in the small hole	膜片损坏 Diaphragm damage

产品原理图 Schematic diagram

此阀是常闭型，通入气源推动活塞向上运动，活塞缸向上带动膜片向上离开阀座，阀门被打开，介质从入口流向出口，从而实现打开功能；关闭气源活塞在弹簧推力作用下向下，阀门关闭，入口到出口通道阻断，从而实现关闭功能。

This valve is a normally closed valve. The gas in the cylinder pushes the piston upward, which in turn drives the diaphragm to move upward. As a result, the valve is opened, and the medium flows from the inlet to the outlet, thus achieving the opening function. When the Air supply pressure is turned off, the piston is pushed downward by the spring thrust force, and the valve closes.

编号 NO.	名称 part of valve	材质 Material	编号 NO.	名称 part of valve	材质 Material
1	阀体 Body	CF8M	2	膜片 Diaphragm	PTFE
3	阀杆 Stem	304	4	活塞 Piston	6061
5	缸筒 Cylinder	CF8(铝缸筒可选)	6	弹簧 Spring	304
7	O型圈 O Ring	FPM	8	Y型圈 Y-Ring	FPM



使用说明 Instructions for Use

气源接口: M5/ Rc1/8
控制压力: 0.5MPa~0.7MPa
介质压力 (推荐使用): -0.1MPa~1MPa
密封形式: 非金属-软金属硬密封, 锥面密封

Control air supply port: M5/ Rc 1/8
Control pressure: 0.5MPa~0.7MPa
Medium pressure: -0.1MPa~1MPa
Sealing form: Metal-non-metal soft seal, Conical surface sea

洁净的压缩空气
或中性气体
Clean compressed air or neutral gas



流向标识
Flow direction

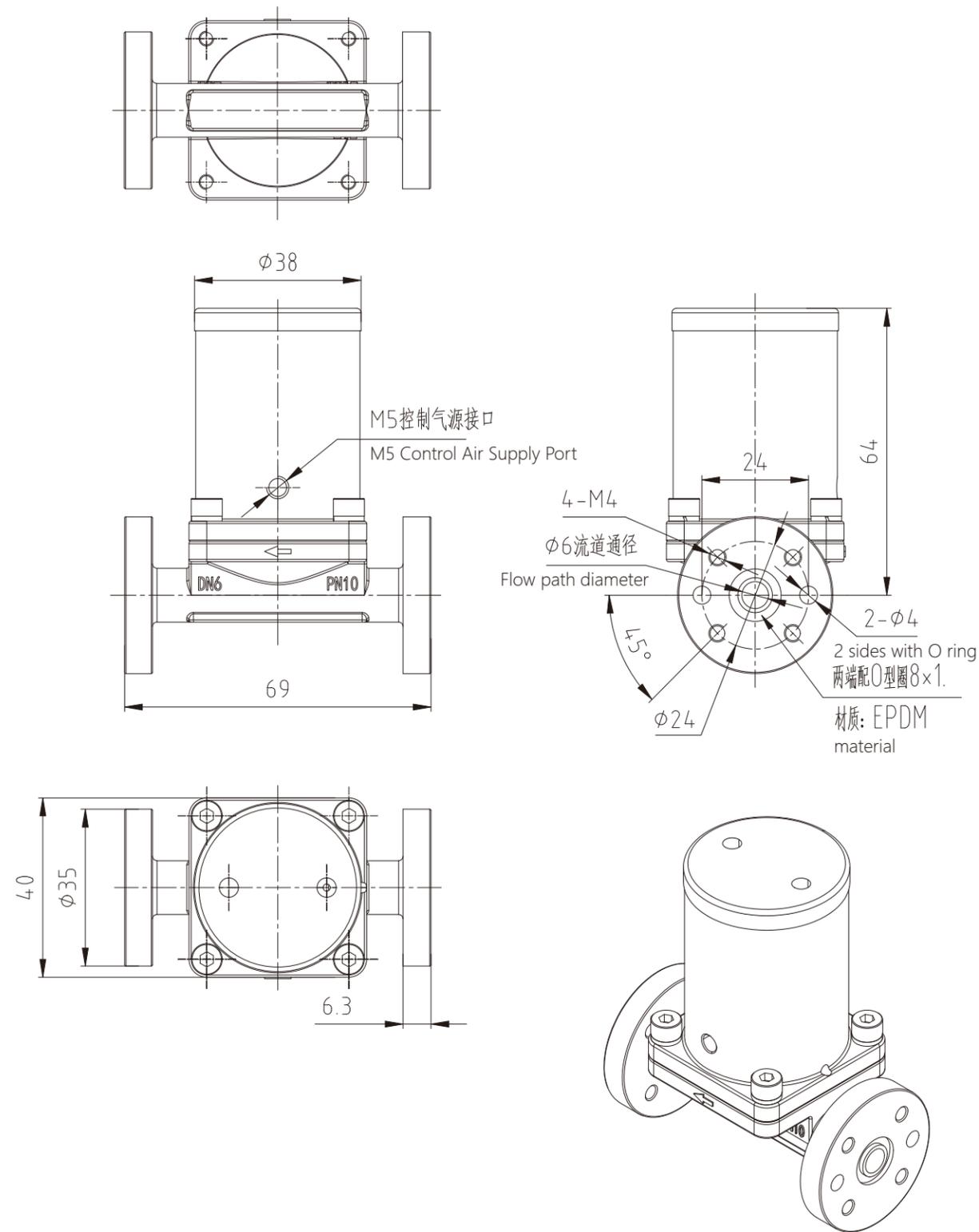
介质压力-1.0~10bar
Medium pressure: -1.0-10 Bar

膜塞阀 (CAV系列) Pneumatic Diaphragm Valve (CAV Series)

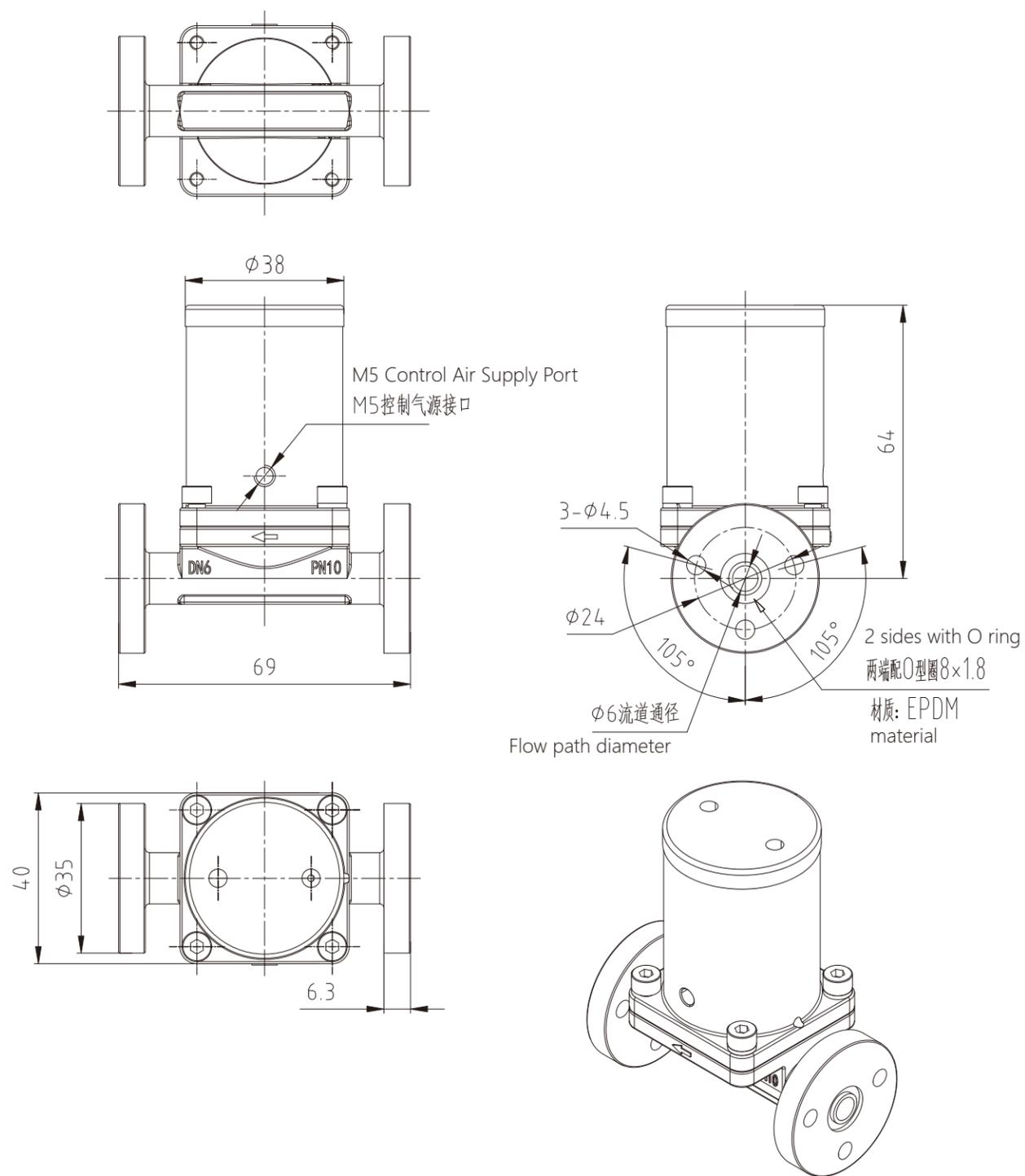
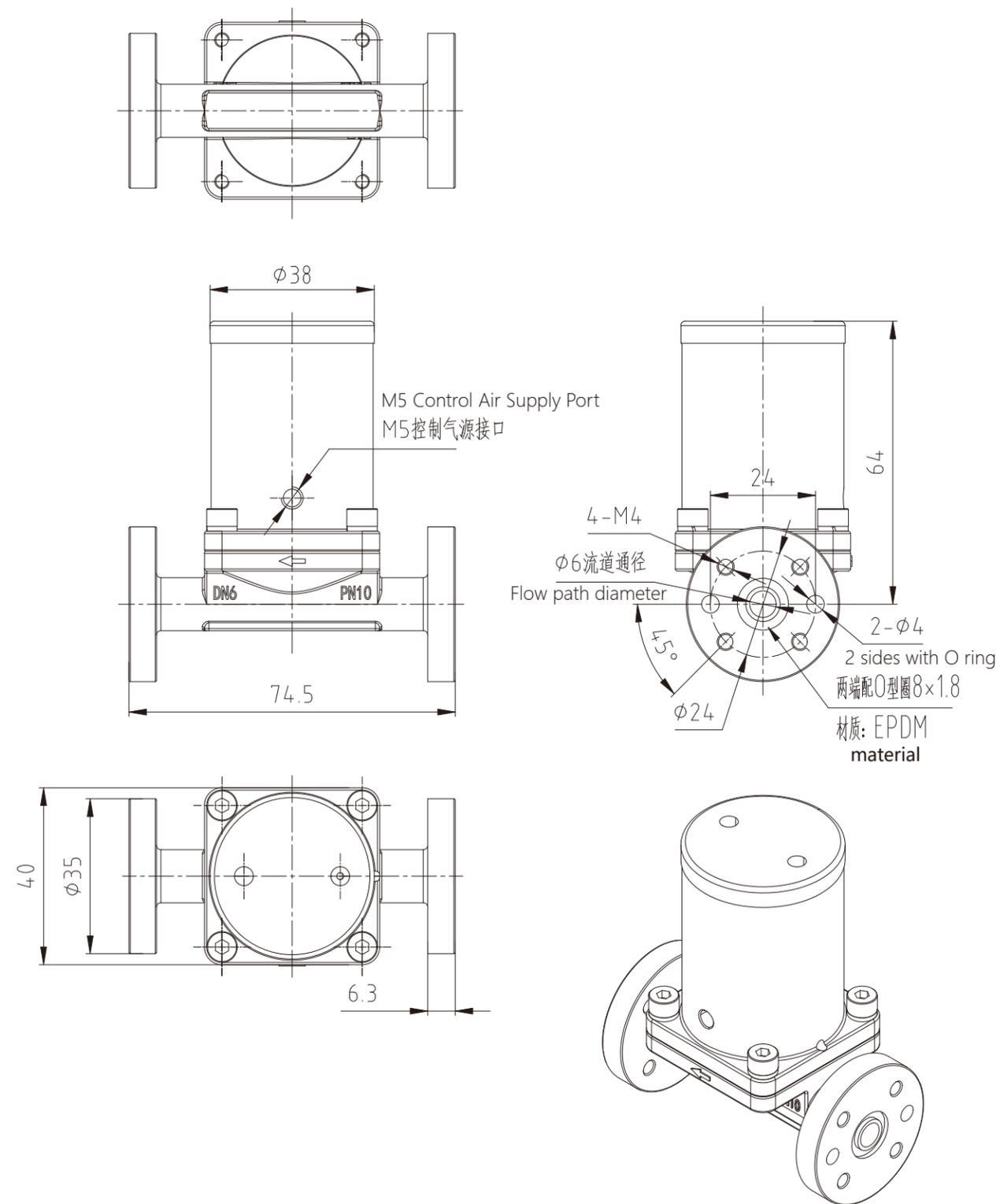
型号表示方法 Order Instructions

E0-	CAV-	32	S-	F□	A-	10-	-M	-T
①	②	③	④	⑤	⑥	⑦	⑧	⑨
① 禁铜、锌、镍 Copper-free, Zinc, Nickel					② 产品系列 Product series			
禁铜、锌、镍系列E0 Copper-free, Zinc, Nickel					CAV			
③ 控制部缸筒内径 Actuator diameter								
32		缸径Φ 32mm						
42		缸径Φ 42mm						
④ 控制部缸筒材质 Actuator Material								
S		不锈钢缸筒 SS						
E		铝制缸筒 AL						
⑤ 阀体连接形式、规格及对应的阀体直径 Valve body connection, size, diameter								
连接形式 Connection type	样式型号 Series	规格 Series	阀体直径 Valve body diameter					
			4.6mm	6mm	8mm	10mm	12mm	
F: 法兰式 Flange	空白*	四孔法兰 4 Hole flange	x	●	x	●	x	
	3	三孔法兰 3 Hole flange	x	●	x	x	x	
	4L	长面四孔法兰 Long surface 4 Hole flange	x	●	x	x	x	
	8L	长面八孔法兰 Long surface 8 Hole flange	x	●	x	x	x	
连接形式 Connection type	样式型号 Series	规格 Series	阀体直径 Valve body diameter					
			4.6mm	6mm	8mm	10mm	12mm	
K: 卡套式 Ferrule	4S	1/4"	●	x	x	x	x	
	6S	3/8"	x	x	●	x	x	
	8S	1/2"	x	x	x	●	x	
	公制	管外径 Outer diameter	4.6mm	6mm	8mm	10mm	12mm	
	4	Φ6	●	x	x	x	x	
	6	Φ8	x	●	x	x	x	
	8	Φ10	x	x	●	x	x	
10	Φ12	x	x	x	●	x		
连接形式 Connection type	样式型号 Series	规格 Series	阀体直径 Valve body diameter					
			4.6mm	6mm	8mm	10mm	12mm	
L: 螺纹式 Threaded	6	G1/4	x	●	x	x	x	
	10	Rc3/8	x	x	x	●	x	
	12	Rc1/2	x	x	x	x	●	
⑥ 阀体是否带接近开关 Proximity switch								
空白*		无						
A		带接近开关 NPN NO/NC with Proximity switch						
⑦ 阀体通孔直径 (只针对法兰式可选) Diameter of Valve Body Through-hole (Applicable for Flange connection)								
空白*		6mm						
10		10mm						
⑧ 气源接头螺纹规格 Threaded size for Air input connector.								
空白*		螺纹规格 thread size	4.6mm	6mm	8mm	10mm	12mm	
M		M5	●	●	●	●	●	
		Rc1/8	x	x	●	●	●	
⑨ 三通式阀体 (仅限卡套式连接的阀体) Three-way body (only for Ferrule connection)								
空白*		两位三通 2/2 way						
		两位三通 3/2 way						
T	旁通端 Bypass port	直通端卡套接头管外径 Tube outer diameter of the ferrule straight-through	三通阀体直径 3 way valve body diameter					
			4.6mm	6mm	8mm	10mm	12mm	
	Rc1/8	Φ8	x	●	x	x	x	

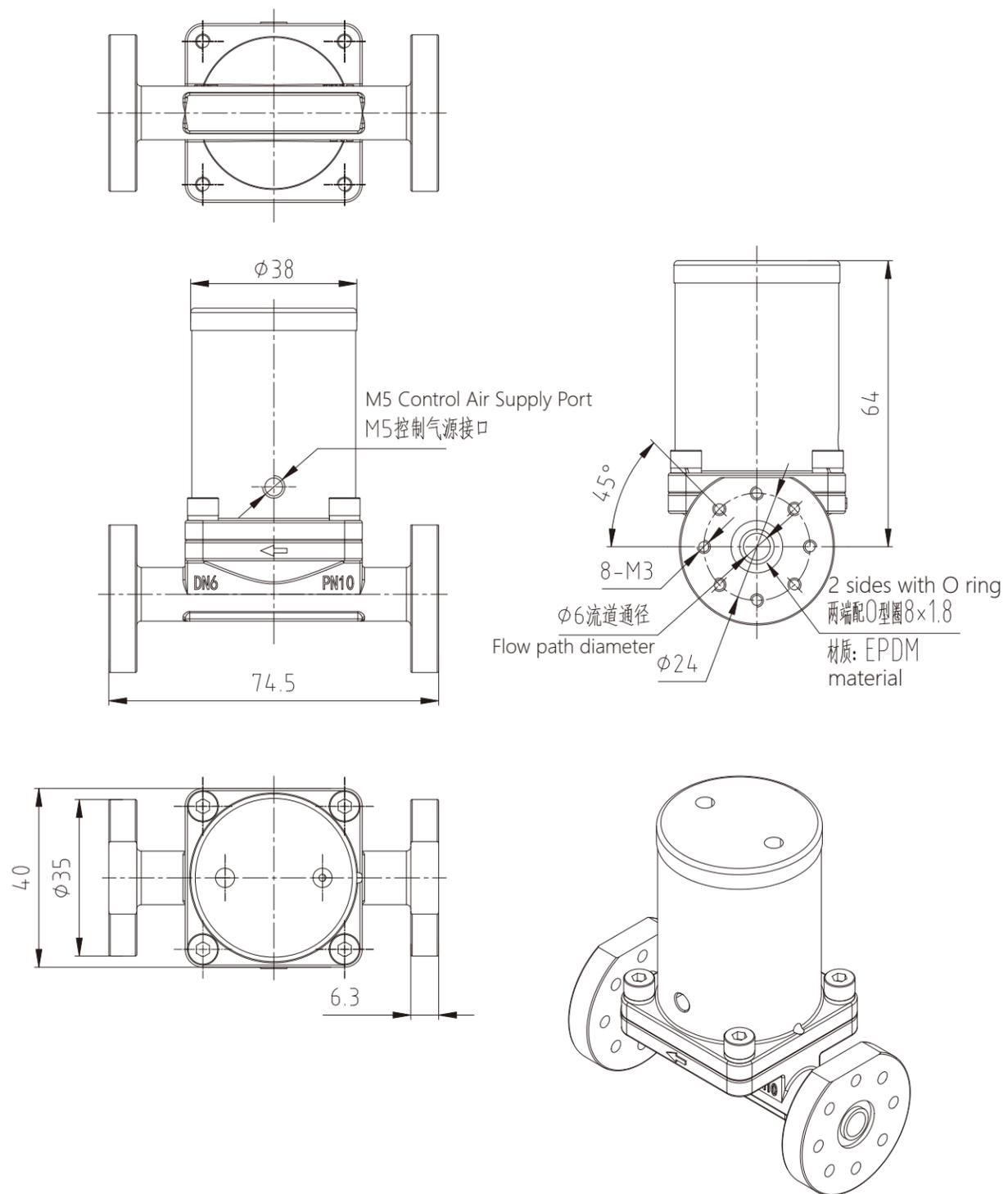
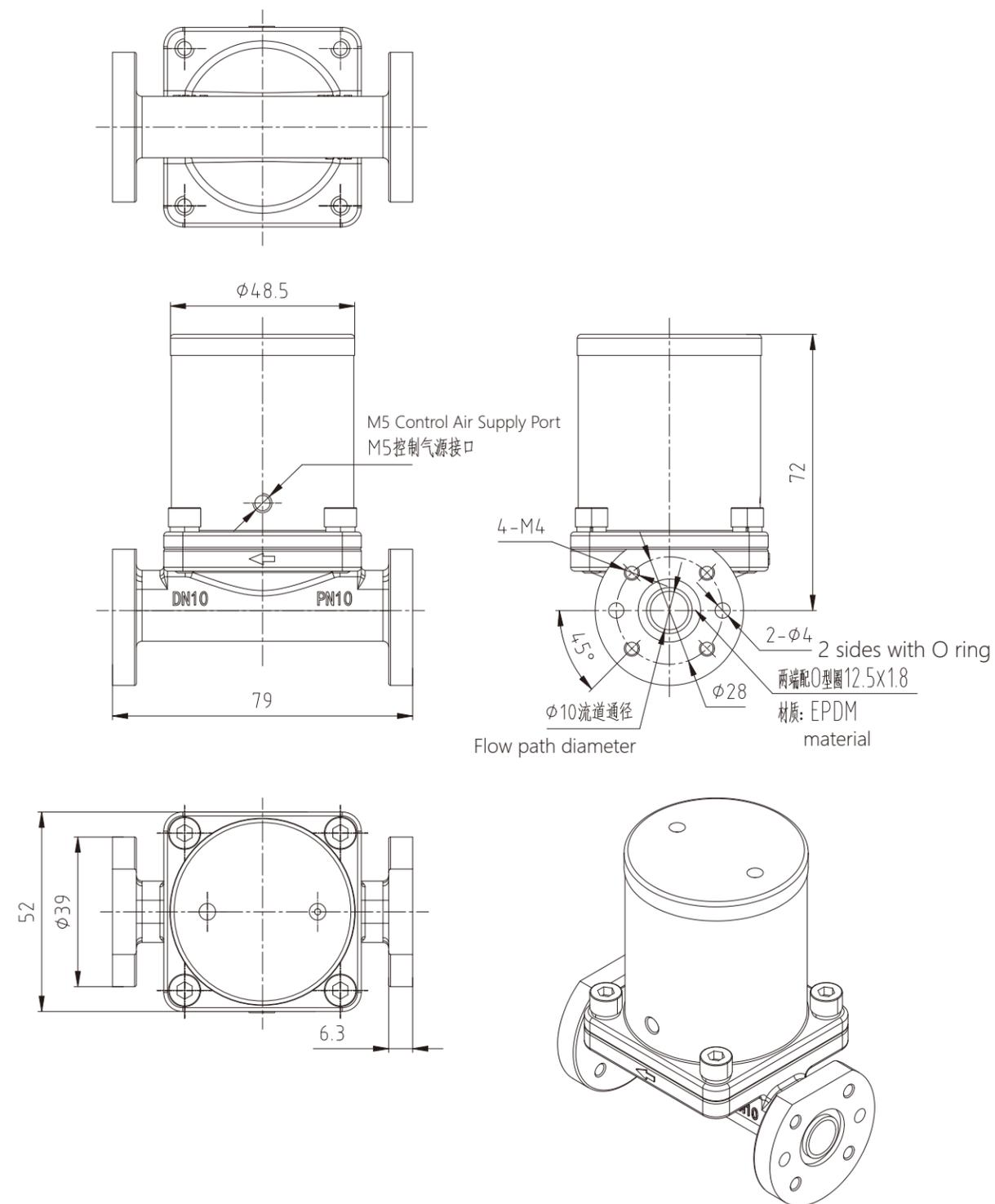
注: 表中x表示无此产品, ●表示有此产品 Note: In the table, "x" indicates that the product is not available, while "●" indicates that the product is available.

外观尺寸图 E0-CAV-32SF
External dimension drawing

膜塞阀 (CAV系列) Pneumatic Diaphragm Valve (CAV Series)

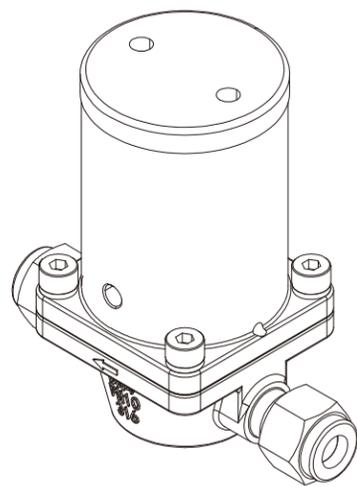
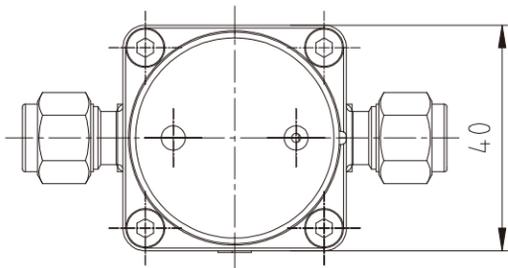
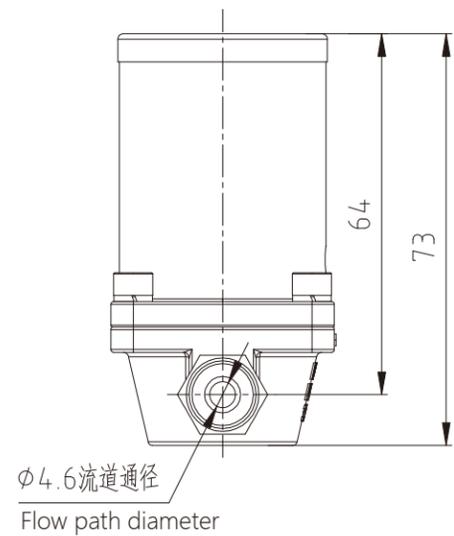
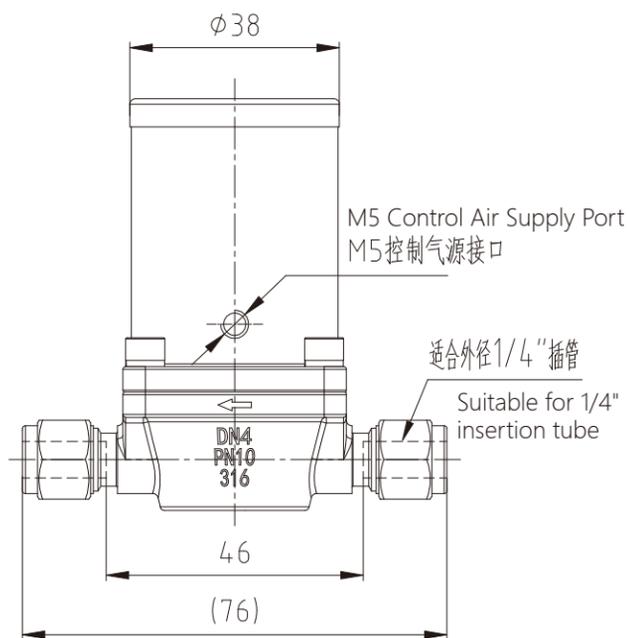
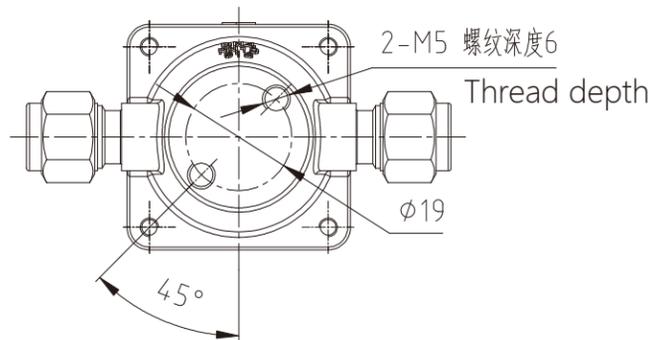
外观尺寸图 E0-CAV-32SF3
External dimension drawing外观尺寸图 E0-CAV-32SF4L
External dimension drawing

膜塞阀 (CAV系列) Pneumatic Diaphragm Valve (CAV Series)

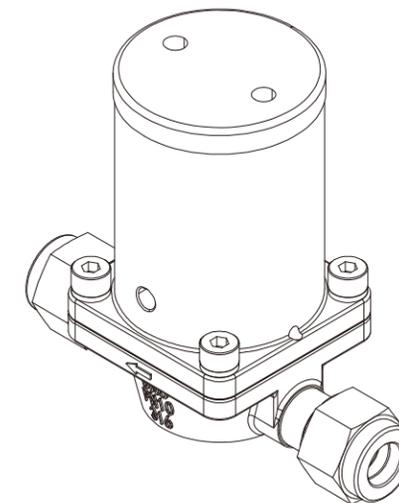
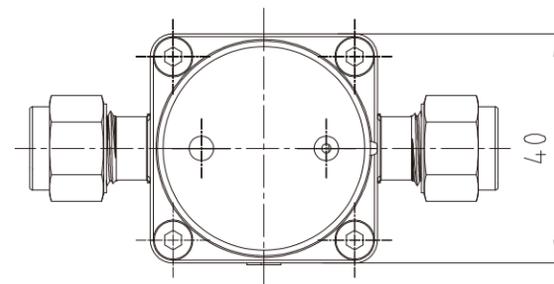
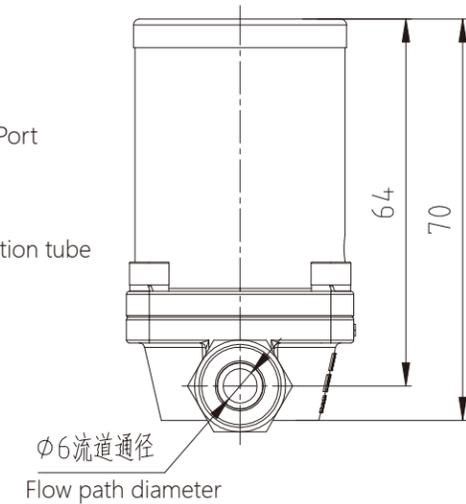
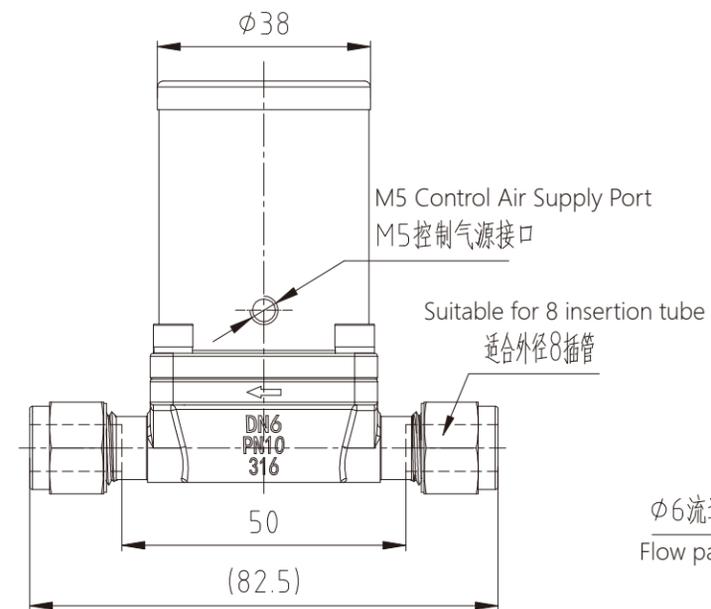
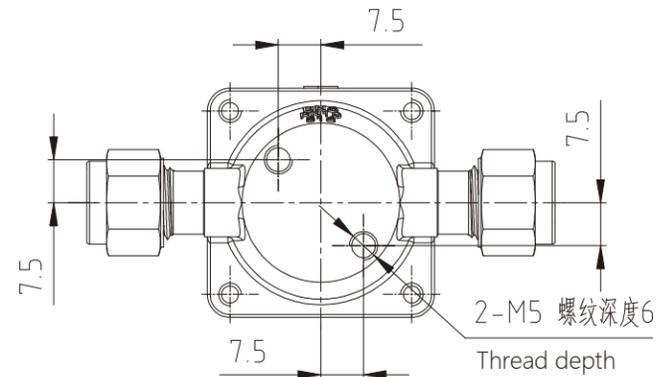
外观尺寸图 E0-CAV-32SF8L
External dimension drawing外观尺寸图 E0-CAV-42SF-10
External dimension drawing

膜塞阀 (CAV系列) Pneumatic Diaphragm Valve (CAV Series)

外观尺寸图 E0-CAV-32SK4S
External dimension drawing

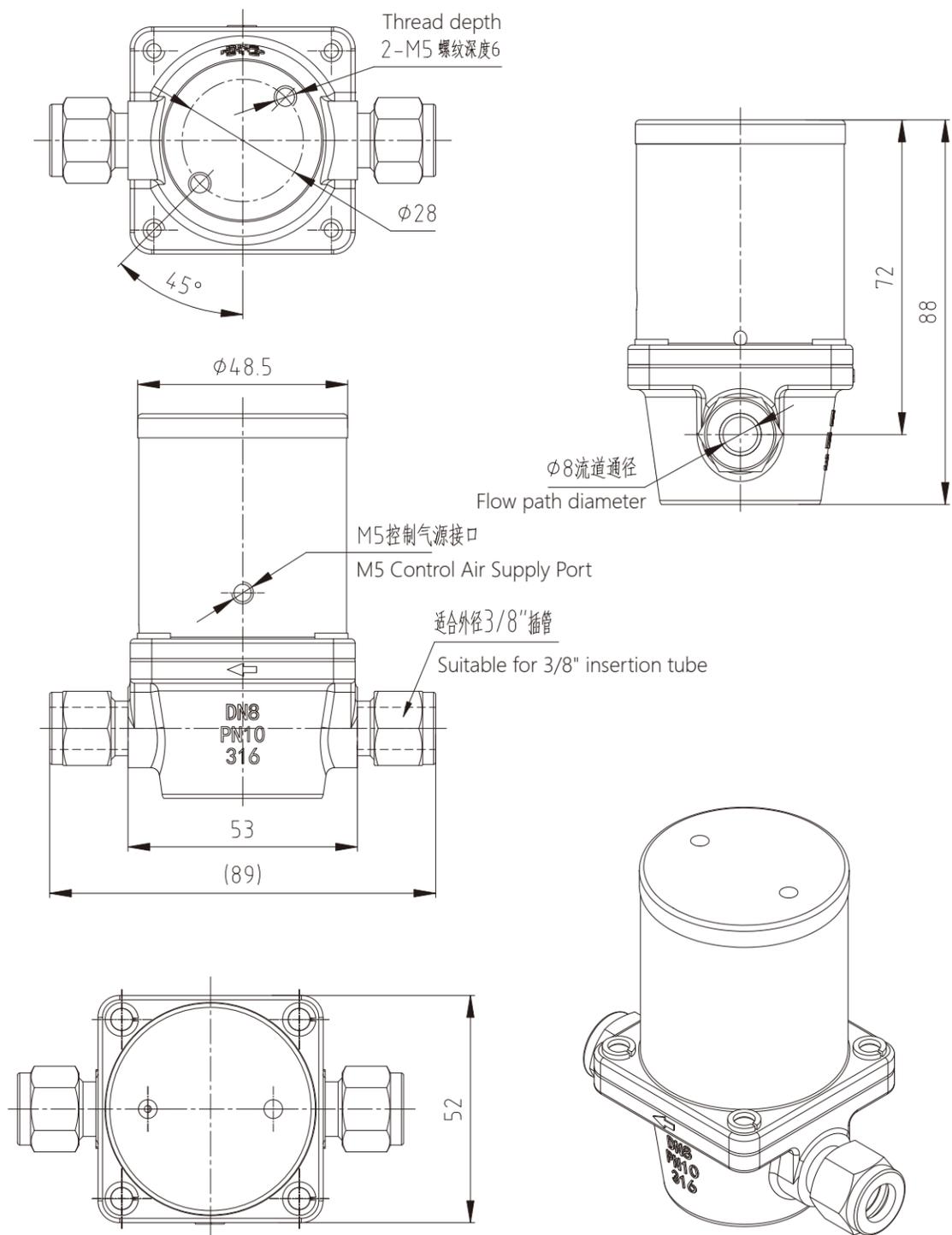


外观尺寸图 E0-CAV-32SK6
External dimension drawing

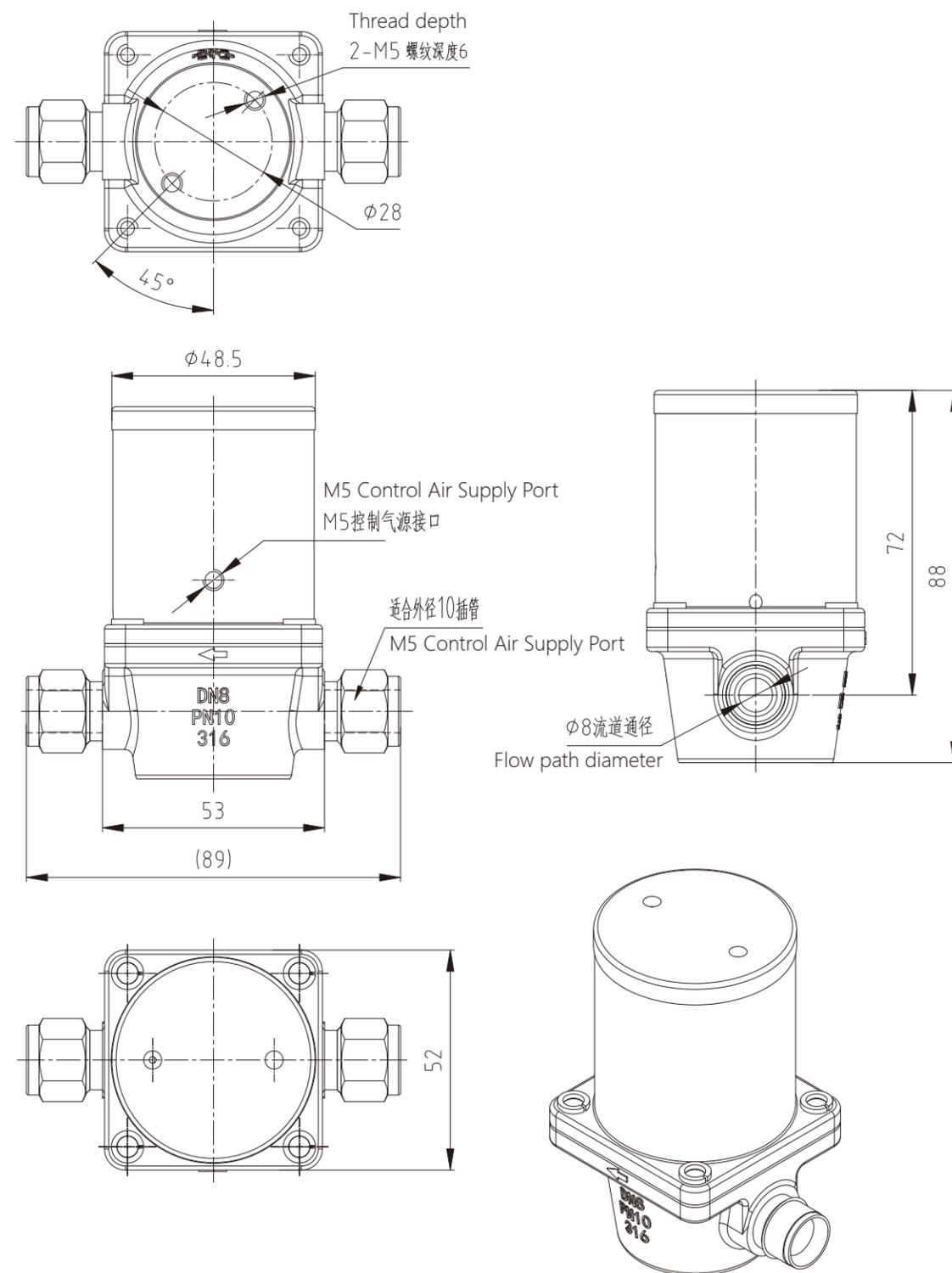


膜塞阀 (CAV系列) Pneumatic Diaphragm Valve (CAV Series)

外观尺寸图 E0-CAV-42SK6S
External dimension drawing

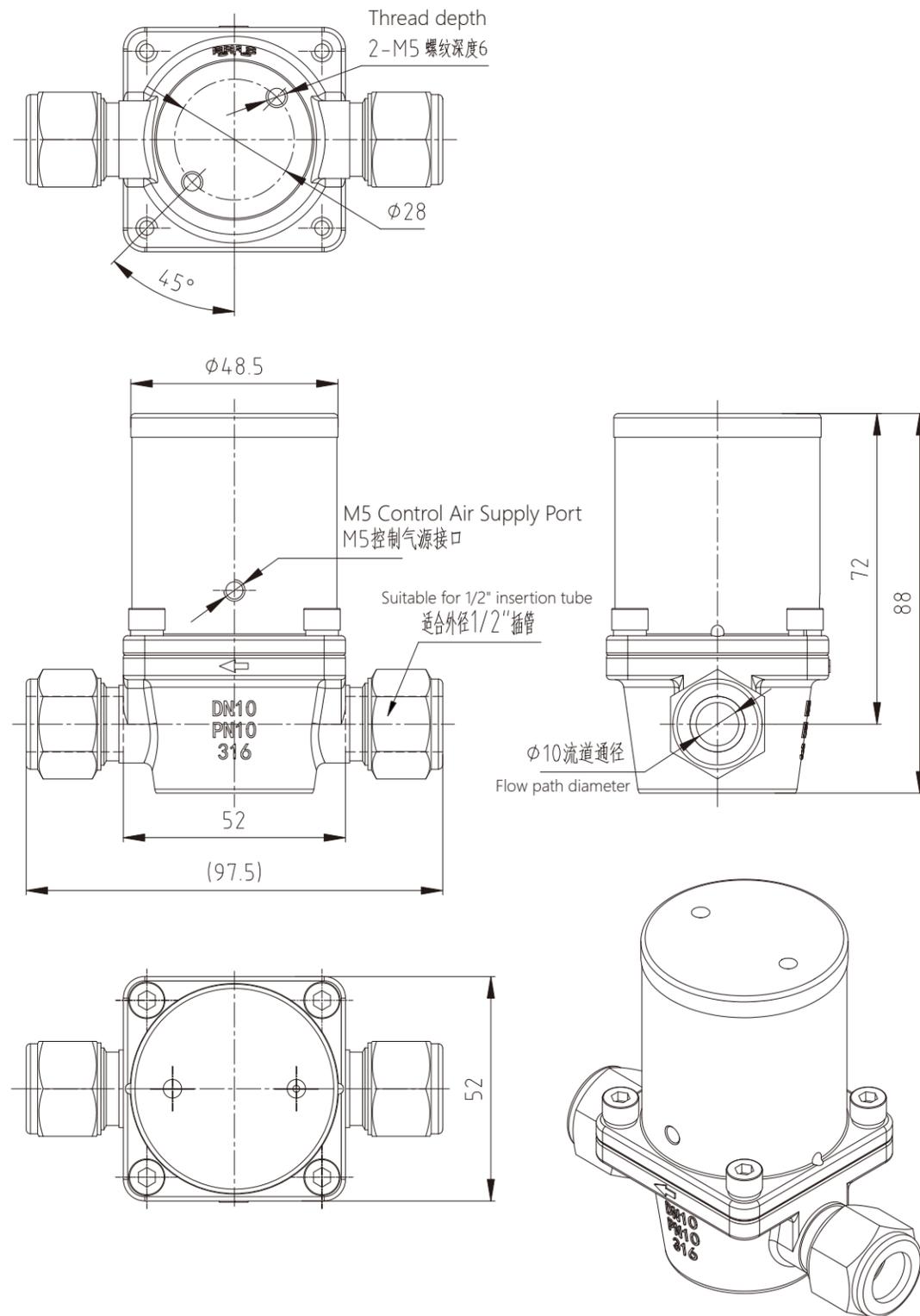


外观尺寸图 E0-CAV-42SK8
External dimension drawing

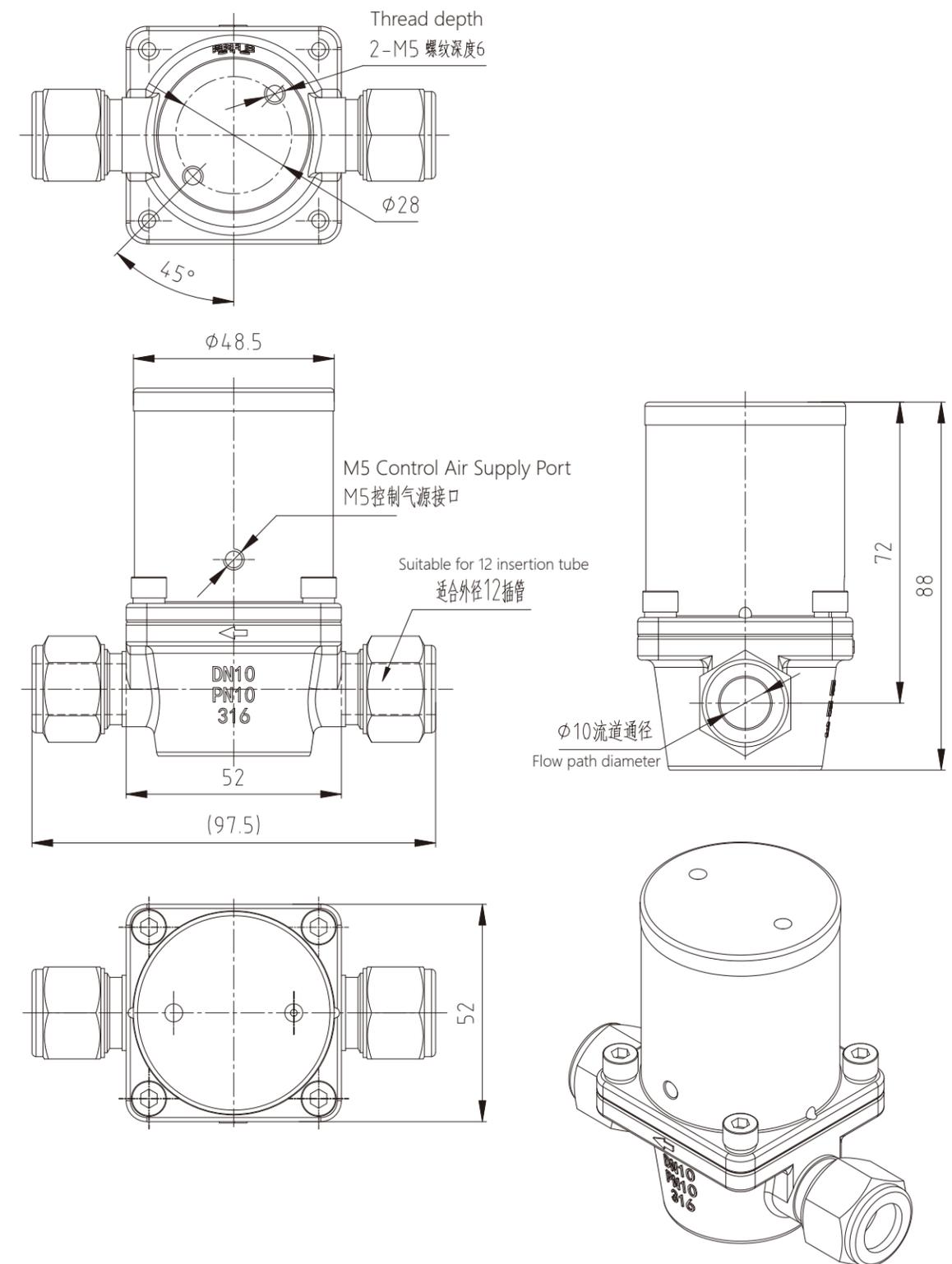


膜塞阀 (CAV系列) Pneumatic Diaphragm Valve (CAV Series)

外观尺寸图 E0-CAV-42SK8S
External dimension drawing

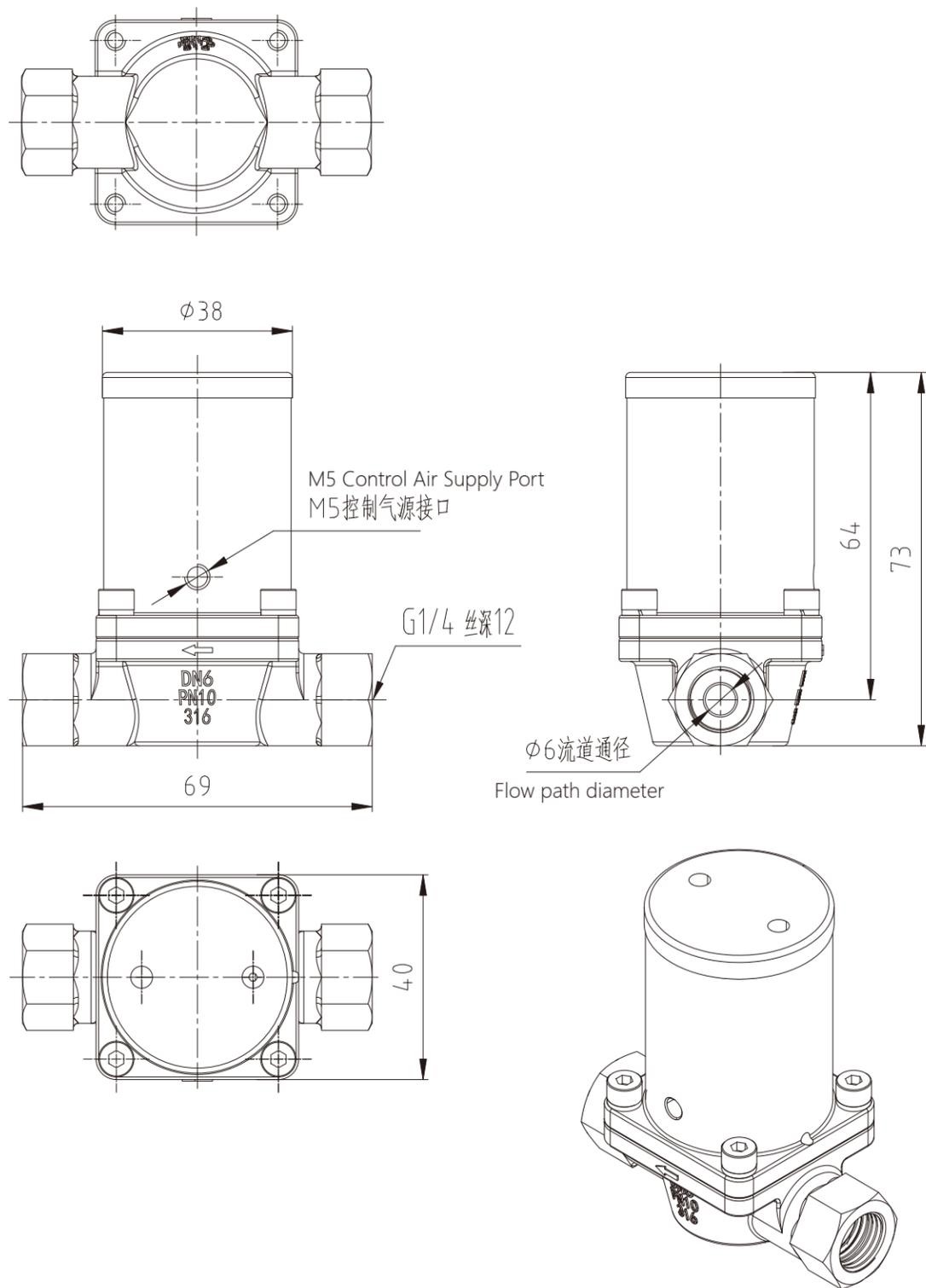


外观尺寸图 E0-CAV-42SK10
External dimension drawing

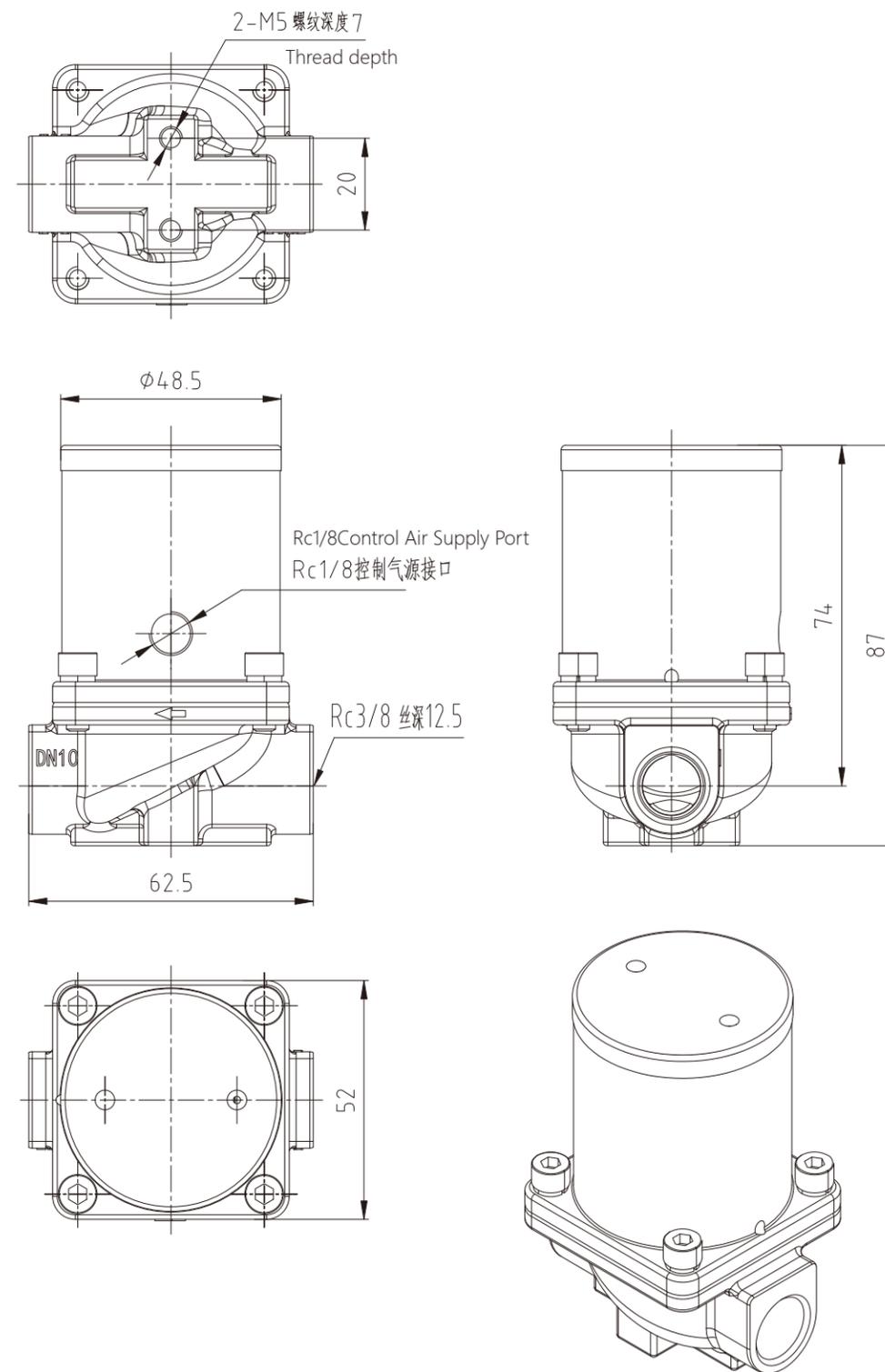


膜塞阀 (CAV系列) Pneumatic Diaphragm Valve (CAV Series)

外观尺寸图 E0-CAV-32SL6
External dimension drawing

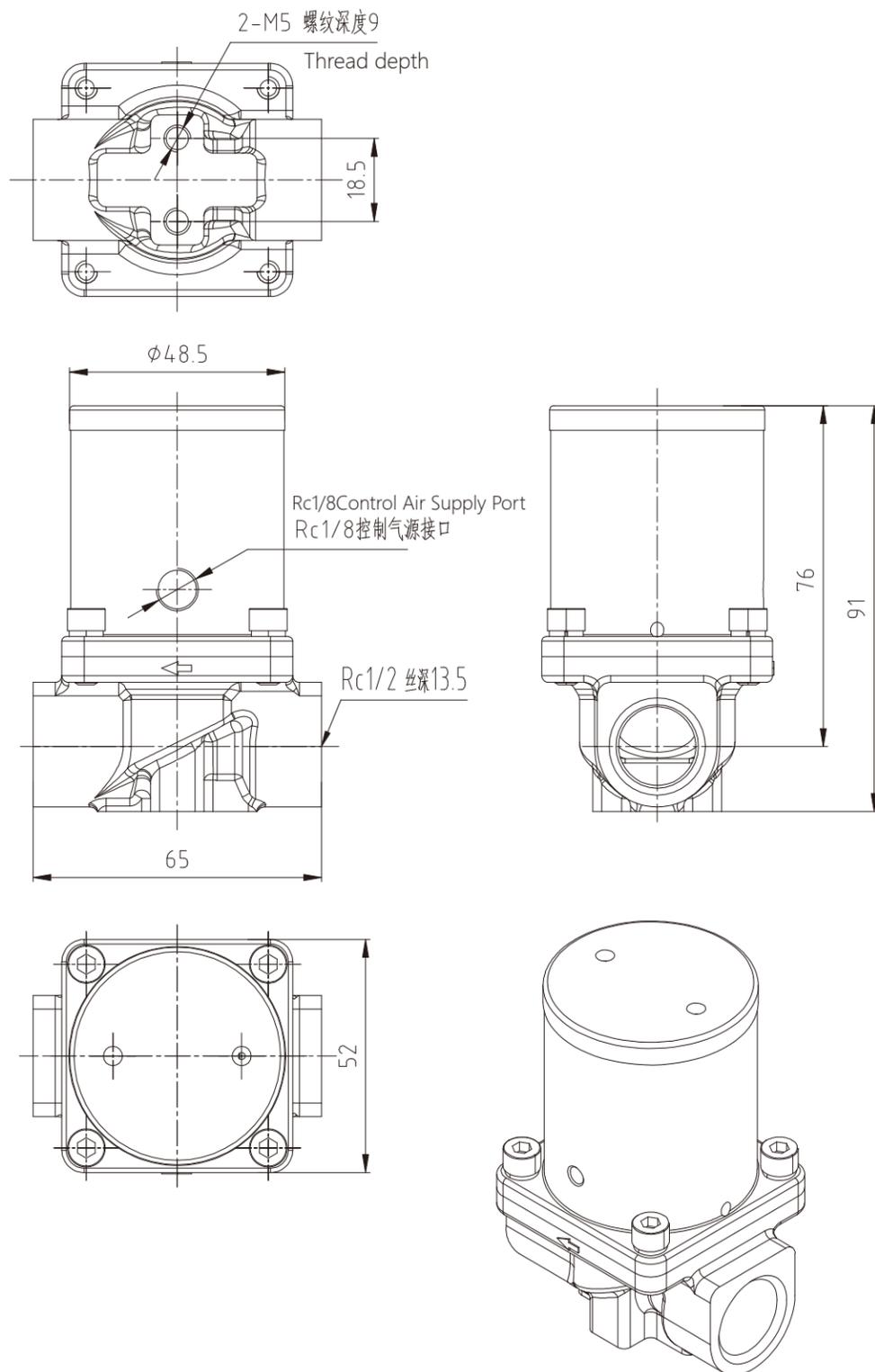


外观尺寸图E0-CAV-42SL10-M
External dimension drawing

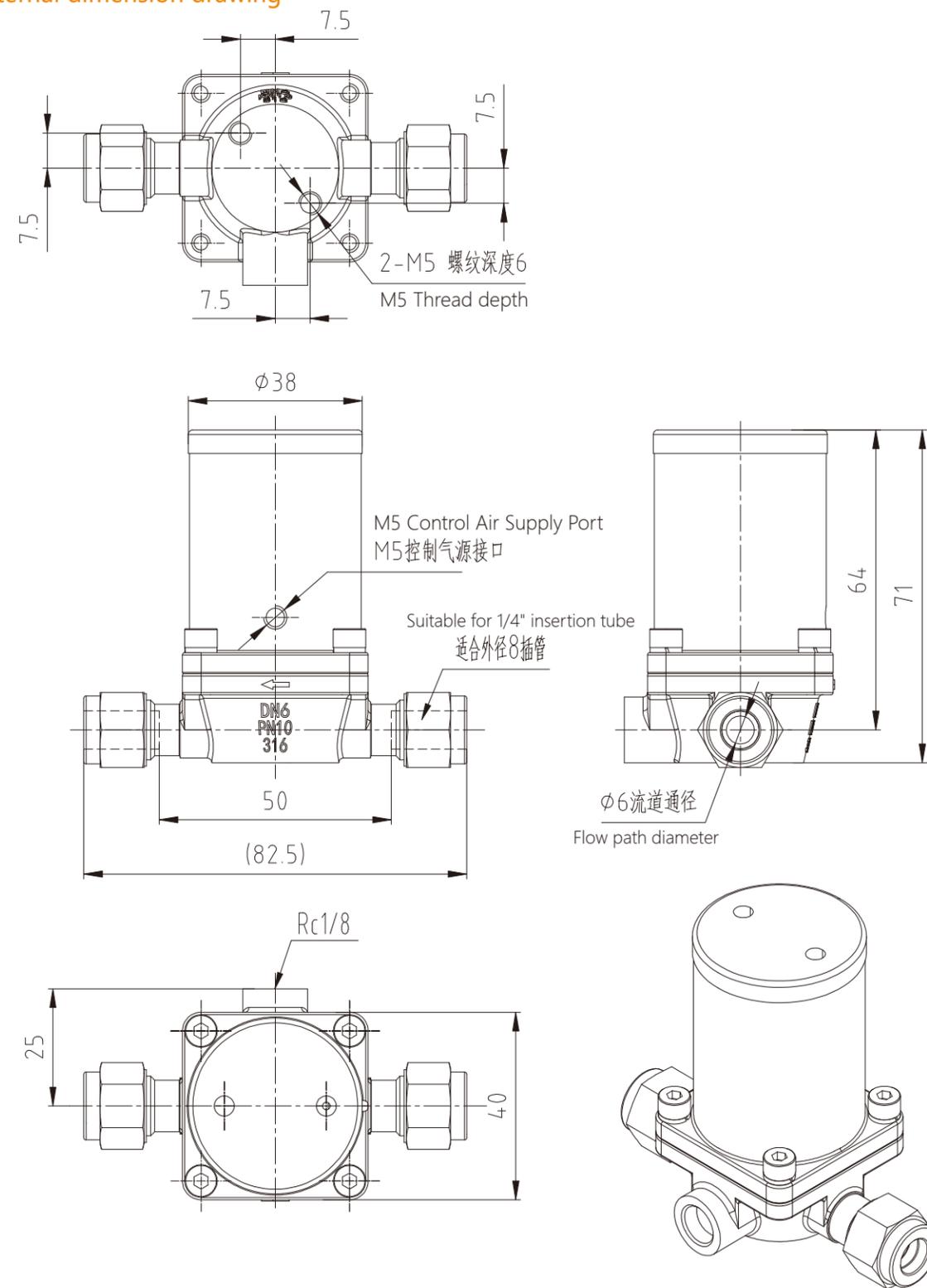


膜塞阀 (CAV系列) Pneumatic Diaphragm Valve (CAV Series)

外观尺寸图 E0-CAV-42SL12-M
External dimension drawing



外观尺寸图 E0-CAV-32SK6-T
External dimension drawing



膜塞阀 (耐腐蚀电感式接近开关)

Pneumatic Diaphragm Valve (Corrosion - Resistant Inductive Proximity Switch)

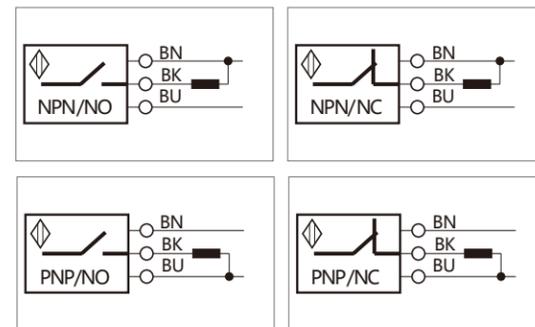


技术参数 Technical Specification

传感器类型 Sensor Type	电感式 Inductive
外形种类 External Shape	圆柱形 Cylindrical
传感器外形材料 Sensor Shell Material	不锈钢 Stainless Steel
感应面和后盖材料 Sensing Element Material	PTFE
安装方式 Installation Method	齐平 Flush
外径尺寸 External Diameter	M8*40(螺纹长度) (Threaded Type)
感应物体 Sensing Object	磁性金属(感应面积10×10×1t) Magnetic Metal (Minimum Size 10×10×1t)
输出类型 Output Type	NPN/PNP (取决于型号) NPN/PNP (Depending on Model)
输出功能 Output Function	NO/NC (取决于型号) NO/NC (Depending on Model)
外部链接 External Cable	2.9mm 2米PUR电缆 2.9mm, 2-wire PUR Cable
额定电压 Rated Voltage	24 VDC
电压范围 Voltage Range	10-30 VDC
开关频率 Switching Frequency	2000 Hz
使用环境温度 Operating Temperature	-25°C ~ +75°C
最大负载电流 Maximum Load Current	150 mA
感应距离回差 Sensing Distance Deviation	<15% (Sr)
传感器防护等级 Sensor Protection Class	IP68, 耐油、耐电解液腐蚀 IP68, Oil-resistant, Corrosion-resistant
耐震动 Vibration Resistance	10-55Hz 上下振幅 1.5mm X、Y、Z 各方向 2h 10-55Hz, 1.5mm amplitude in X, Y, Z directions
保护回路 Protection Circuit	短路保护、过载保护、极性反接保护 Overload Protection, Short-circuit Protection, Reverse Polarity Protection
重复误差 Repeatability Error	≤3%
残余电压 Residual Voltage	3.3V 以下 (负载电流 100mA、导线长 2m 时) ≤3.3V (when load current is 100mA and wire length is 2 meters)
消耗电流 Leakage Current	≤10mA
感应距离 Sensing Distance	1.5mm

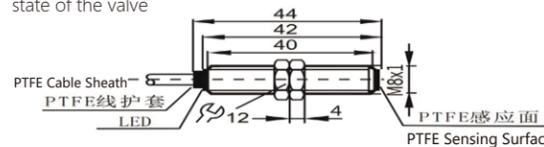
接线图 Wiring Diagram

BN: 棕色 BU: 蓝色 BK: 黑色 WH: 白色
BN: Brown; BU: Blue; BK: Black; WH: White

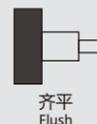


接近开关附件 Proximity Switch Accessories

适用于所有口径电磁阀，用来检测阀门开/关状态，反馈阀门开/信号。
Suitable for solenoid valves of all sizes, used to detect the open/close state of the valve



输出 Output	型号 Model
NPN.NO	FN1.5-M8-NOFS
NPN.NC	FN1.5-M8-NCFS
PNP.NO	FN1.5-M8-POFS
PNP.NC	FN1.5-M8-PCFS



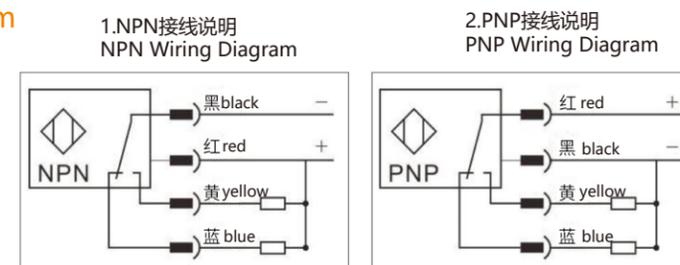
异型电感式接近开关 Special-Shaped Inductive Proximity Switch



技术参数 Technical Specification

传感器类型 Sensor Type	电感式 Inductive
外形种类 External Shape	异型 Special-Shaped
传感器外形材料 Sensor Shell Material	PC+ABS阻燃 PC+ABS Flame Retardant
安装方式 Installation Method	顶部安装 Top Mounting
安装高度 Installation Height	11mm
输出类型 Output Function	PNP/NPN (取决于型号) PNP/NPN (Depending on Model)ccc
输出功能 Output Function	NO/NC
外部电缆 External Cable	4*0.15mm 2m
额定电压 Rated Voltage	DC24V
电压范围 Voltage Range	DC10-30V
使用环境温度 Operating Temperature	-25°C ~ +75°C
最大负载电流 Maximum Load Current	70mA
传感器防护等级 Sensor Protection Class	IP65
保护回路 Protection Circuit	短路保护、过载保护 Short-circuit Protection, Reverse Polarity Protection
感应距离 Sensing Distance	1.5mm
型号 NPN Model (PNP)	J5D2M
型号 PNP Model (NPN)	J6D2M

接线图 Wiring Diagram



注液针阀 (CNV系列) Drip Proof Needle Valve (CNV series)



特点

- 1.隔膜式设计，杜绝介质与阀体以外的零部件接触，具有高安全性和高可靠性；
- 2.隔膜式设计，避免因介质结晶或粘稠有颗粒导致阀杆抱死；
- 3.膜片材质为PTFE，使用寿命长，耐腐蚀性能强，适用温度范围广；
- 4.出口端部密封，无滴液，注液精度高；
- 5.特殊膜片结构，耐1MPa瞬时压力。

Advantage

- 1.Isolation design: Isolates the medium from external parts, with high safety and reliability.
- 2.Diaphragm design: The valve seat is isolated from the medium, easy to clean and sterilize, and has good corrosion resistance.
- 3.The valve core is made of PTFE, with excellent wear resistance and a wide range of applications.
- 4.The outlet is designed without dead ends, with high pressure resistance.
- 5.Special valve core design, can withstand 1MPa pressure.

产品原理图

单作用常闭针阀：在非工作状态时，由于弹簧力作用，阀门常闭。
当执行器活塞被压缩气体作用时，阀门打开，介质从出口端流出。

双作用常闭针阀：靠压缩气体控制阀门启闭，实现介质的截断和流通。

Function Principle

Valve stays closed by spring force in its normal state. When piston is actuated by compressed air, valve becomes opened.

For double acting type, valve is opened and closed by compressed air.

技术参数 Technical Specification

工作介质 Medium	水、电解液、中性气体或液体、有机溶剂等 Water, electrolyte, neutral gas, organic solvent, etc
介质压力 Working Pressure	0~0.5MPa (双作用阀门可耐受1MPa瞬时冲击) Double-acting valves are capable of withstanding 1MPa instantaneous pressure surge.
介质温度 Medium Temperature	-10°C~110°C
环境温度 Ambient Temperature	-10°C~60°C
控制介质 Control Medium	洁净的压缩空气或中性气体 Clean compressed air or neutral gas
控制气源压力 Control Air Pressure	0.5MPa~0.7MPa
连接形式 Control Air Pressure	卡套式 (接管外径φ12mm)、Clamp (for pipe outer diameter φ12mm), 螺纹式 Threaded
控制形式 Control Air Pressure	单作用常闭/双作用常闭 Single-acting normally closed / Double acting normally closed
阀座材质 Valve Body Material	CF8M (316)
密封材质 Sealing Material	PTFE
气缸材质 Cylinder Material	CF8 (304)
气缸尺寸 Cylinder Size	32mm

注：除DN8双作用常闭针阀外的产品不推荐直接连接定量泵使用。

Products other than the DN8 double-acting normally closed needle valve are not recommended for direct connection to a quantitative pump.

型号表示方法 Model Nomenclature

E0	—	CNV	—	C	—	32	—	DNS	—	L	—	RC3/8"	—	A
①		②		③		④		⑤		⑥		⑦		⑧
禁铜 / 锌 / 镍系列		系列号 Series No.		作用形式 Acting type		缸径 Actuator dimension		规格 Specification		L 针阀长度 L Needle Length		接口形式 Interface Form		开关反馈装置 Switch Indicator
E0		CNV		C 单作用常闭 C: Single-acting normally close D 双作用常闭 D: Double-acting		32mm		DN5 DN8		见附表 Attached Table		RC3/8" K10		A 预留 M8*1 接口 空白 无 Blank: None

附表 Attached Table

L Needle Length L 针阀长度 规格 Specification	45	50	65	146.9	148	173
DN5	x	●	x	x	●	●
DN8	●	x	●	●	x	x

注 1：表中“x”表示无此产品，“●”表示有此产品

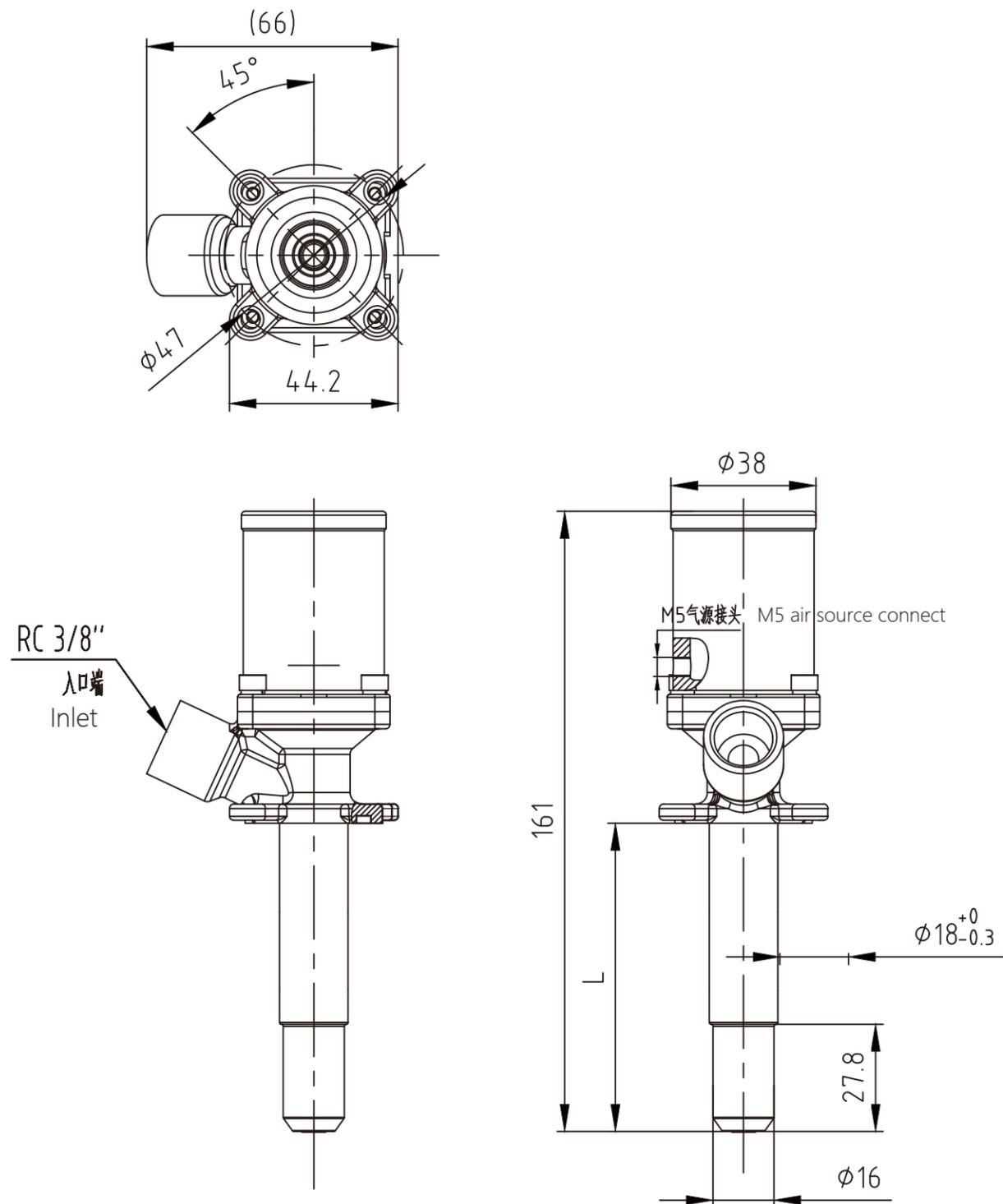
*Note 1: "x" means no such products available, "●" means products available.

注 2：K10 (卡套式) 只有 DN8 - L45 可选

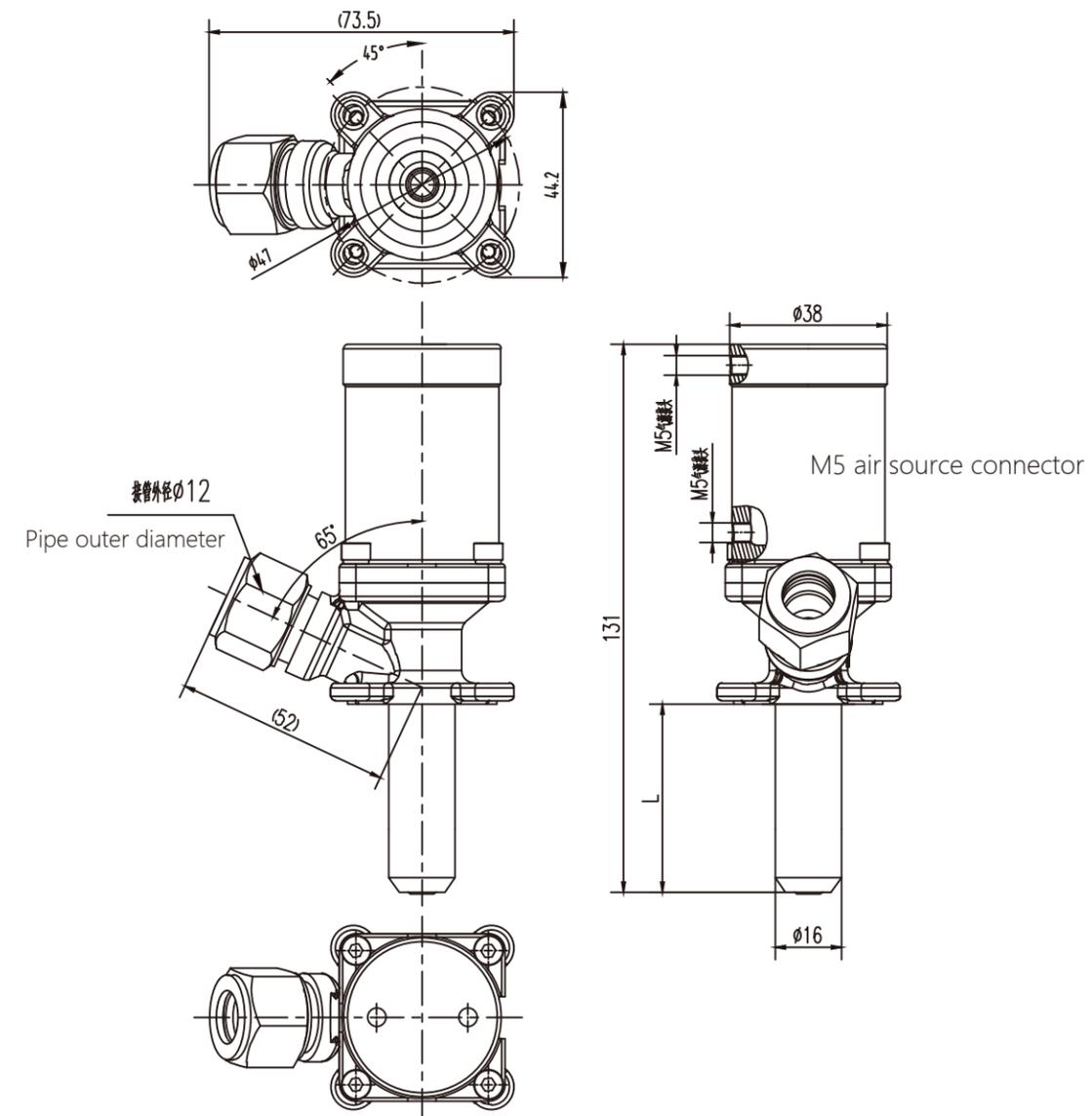
*Note 2: K10 (clamp type) only has DN8 L=45mm available.

注液针阀 (CNV系列) Drip Proof Needle Valve (CNV series)

DN8 单作用常闭注液针阀外观尺寸图 E0-CNV-C-32-DN8-L-RC3/8"-A
DN8 Single-acting Normally Closed External Dimensions Drawing



DN8 双作用常闭注液针阀外观尺寸图 E0-CNV-D-32-DN8-L-RC3/8"-A
DN8 Double-acting Normally Closed External Dimensions Drawing

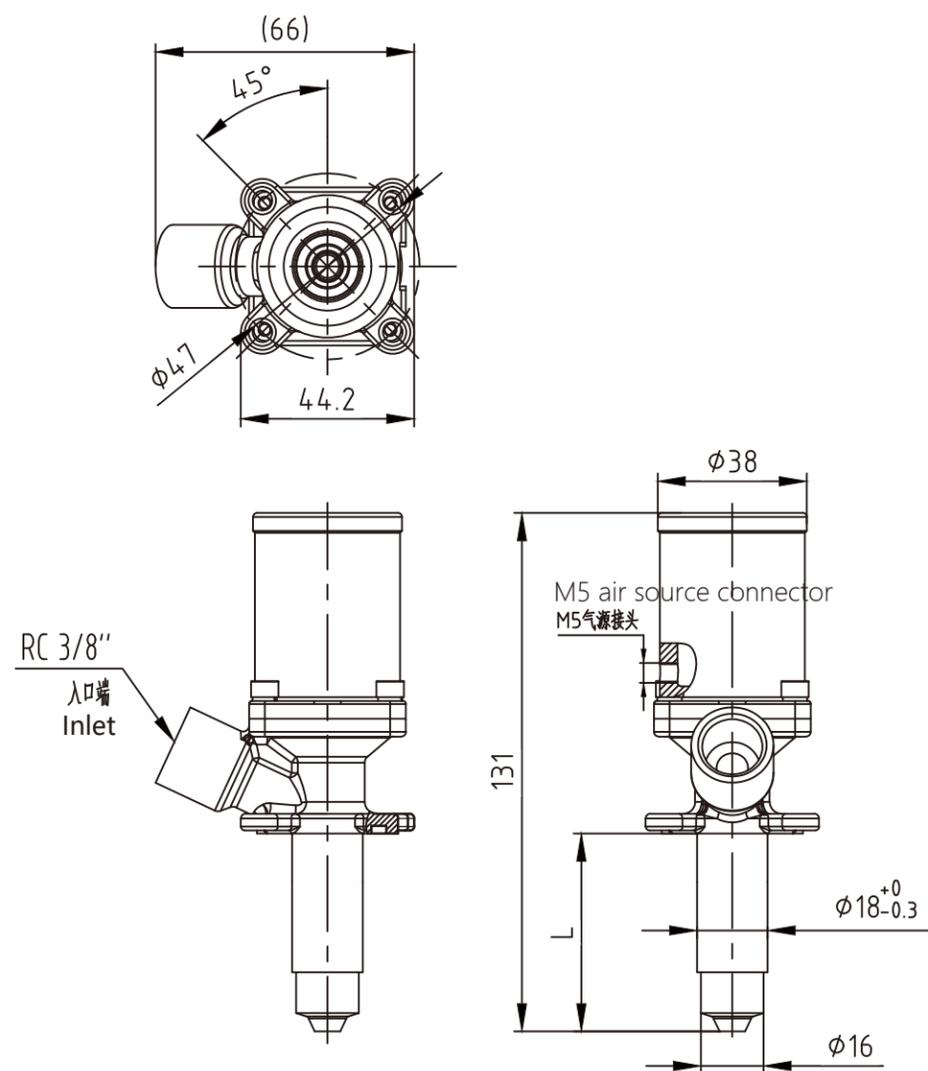


L	45	65	146.9
连接形式 Connection			
卡套式 Tri-clamp	x	x	x
螺旋式 Thread	•	•	•

注1: 表中“x”表示无此产品, “•”表示有此产品
Note: In the table, "x" indicates the absence of this product, "•" indicates the presence of this product.

注液针阀 (CNV系列) Drip Proof Needle Valve (CNV series)

DN5 单作用常闭注液针阀外观尺寸图 E0-CNV-C-DN5-L-RC3/8"-A
DN5 Single-acting Normally Closed External Dimensions Drawing



规格 size	L (长度可控制) L (length can be customized)	接口形式 Connection type
DN5	50	Rc3/8"
	148	
	173	

真空注液阀 (CAC系列) CAC Series Vacuum Proportional Valve



技术参数

- 阀门规格: DN6
- 工作压力: 0-10bar (0-145psi)
- 控制压力: 5-7bar (72.5-102psi)
- 控制介质: 洁净的压缩空气或中性气体
- 介质温度: -10°C—+110°C
- 环境温度: -10°C—+60°C
- 气源接口: M5 (可定制)
- 适用介质: 电解液、空气、纯水等
- 连接形式: 螺纹式 (RC1/4") /KF 法兰
- 安装位置: 水平安装

特点

本产品集抽真空、注液两个功能于一体，且能独立控制、互不干涉。

工作原理

真空注液阀集抽真空和注液功能于一体，搭配注液总成使用，可以杜绝阀门出口处残液滴落，真正实现注液现场的绝对清洁。

接口形式 Connection type	L (长度可控制) L (length can be customized)
KF法兰 KF Flange	60
	110
螺纹式 Thread	/

Technical Specification

- Size: DN6
- Operating pressure: 0-10bar (0-145psi)
- Control pressure: 5-7bar (72.5-102psi)
- Control fluid: Filtered compressed air or neutral gas
- Fluid temperature: -10°C — +110°C
- Ambient temperature: -10°C — +60°C
- Air interface: M5(customizable)
- Applicable media: Electrolyte solution, air, pure water, etc.
- Connection type: Threaded (RC1/4") /KF
- Installation position: Horizontal installation

Advantage

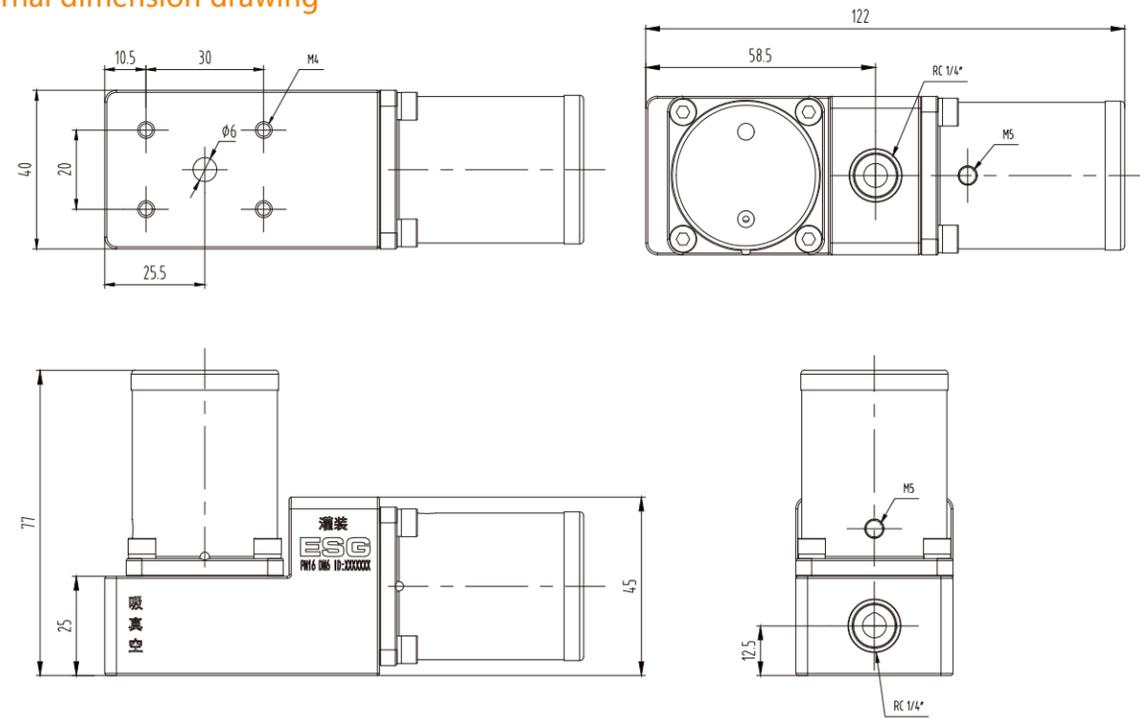
This product integrates the functions of vacuum pumping and liquid injection, and can be independently controlled without interfering with each other.

Function Principle

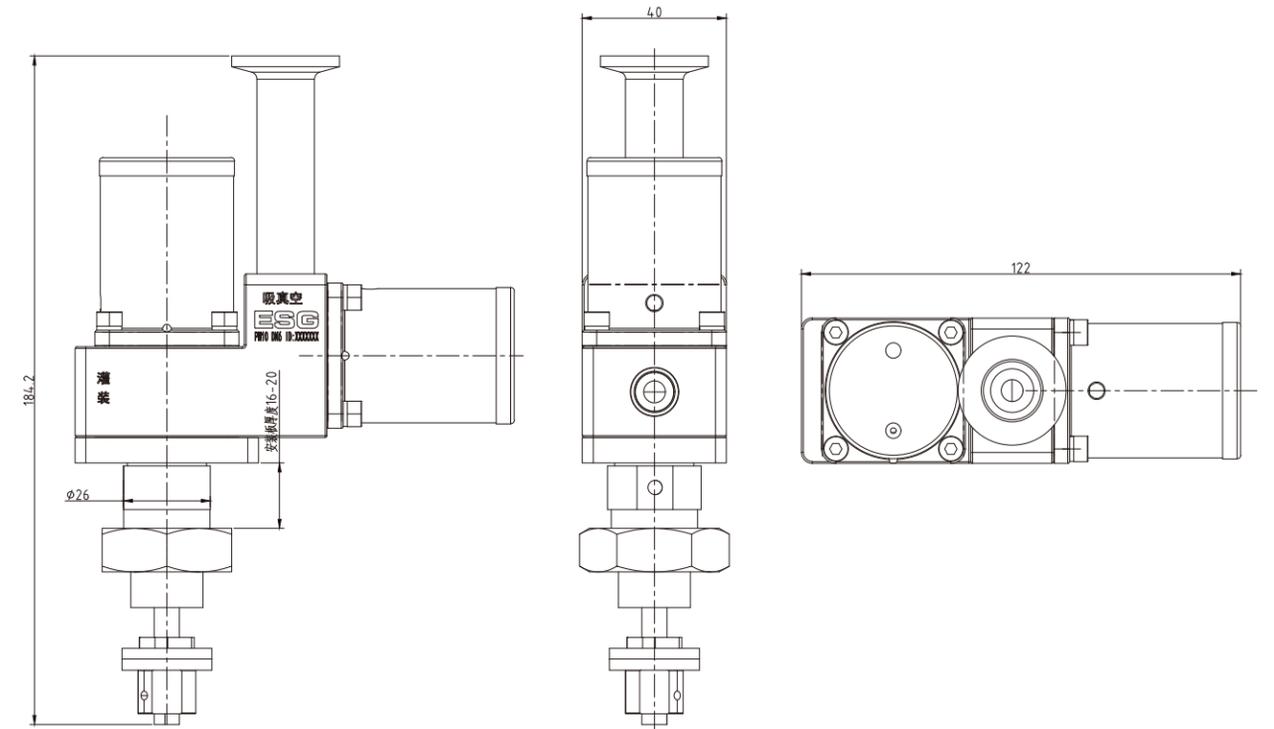
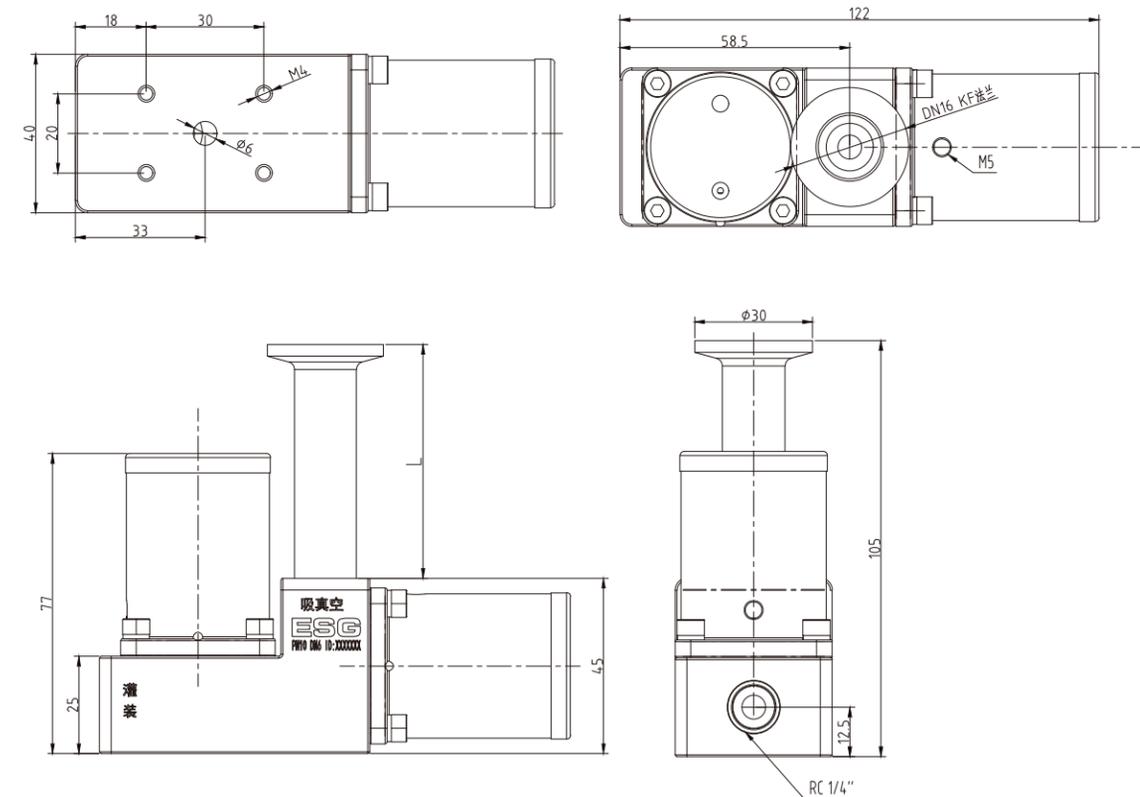
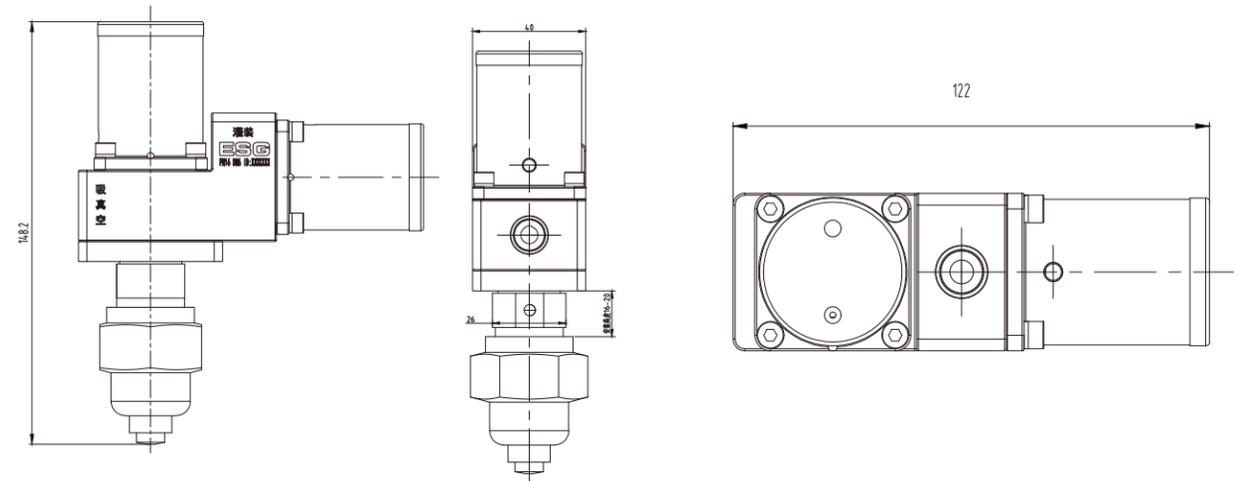
This product integrates the functions of vacuum pumping and liquid injection, when used with the liquid injection assembly, it prevents residual liquid from dripping at the valve outlet, ensuring a clean injection site.

真空注液阀 (CAC系列) CAC Series Vacuum Proportional Valve

外观尺寸图
External dimension drawing



外观尺寸图
External dimension drawing



角座阀 Angle Seat Valve

121 系列角式隔膜阀
121 Series
Angle Diaphragm Valve

技术参数

- 工作压力: 0-10bar (0-145psi)
- 控制压力: 4-8bar (58-116psi)
- 控制介质: 洁净的压缩空气或者中性气体
- 阀体材质: CF8/CF8M/CF3M 及其他特殊材质
- 密封材质: PTFE
- 气缸材质: CF8
- 气缸尺寸: 40mm、50mm、63mm、90mm
- 使用介质: 水、油、中性气体或液体、有机溶剂、酸碱溶液等
- 介质温度: -10°C—+150°C
- 环境温度: -10°C—+80°C
- 控制形式: 单作用常闭、双作用常闭
- 连接形式: 螺纹式、焊接式、快装
- 泄露等级: DIN EN 12266 A 级

特点

- 使用隔膜片隔离介质, 避免因介质结晶或粘稠有颗粒导致阀杆抱死;
- 气缸采用不锈钢材质, 在恶劣的环境中更加优秀, 可360°旋转。

工作原理

在阀体与连接之间设有隔膜片来隔离介质, 用来代替阀杆密封组件。

在非工作状态时, 由于弹簧力作用, 阀门常闭 (开)。当执行器活塞被压缩气体作用时, 阀门打开 (关闭)。双作用形式靠压缩气体控制阀门开关。

Technical Specification

- Operating pressure: 0-10bar (0-145psi)
- Control pressure: 4-8bar (58-116psi)
- Control fluid: Filtered compressed air or neutral gas
- Body material: CF8/CF8M/CF3M and other special materials
- Seal material: PTFE
- Actuator material: CF8
- Actuator size: 40mm, 50mm, 63mm, 90mm
- Applicable fluid: Water, Oil, Neutral gas or Liquid, Organic solvent, Acid and lye
- Fluid temperature: -10°C — +150°C
- Ambient temperature: -10°C — +80°C
- Control type: Single acting normally closed, Double acting normally closed
- Connection type: Threaded, Welded, Tri-clamp
- Leakage class: EN 12266 Class A

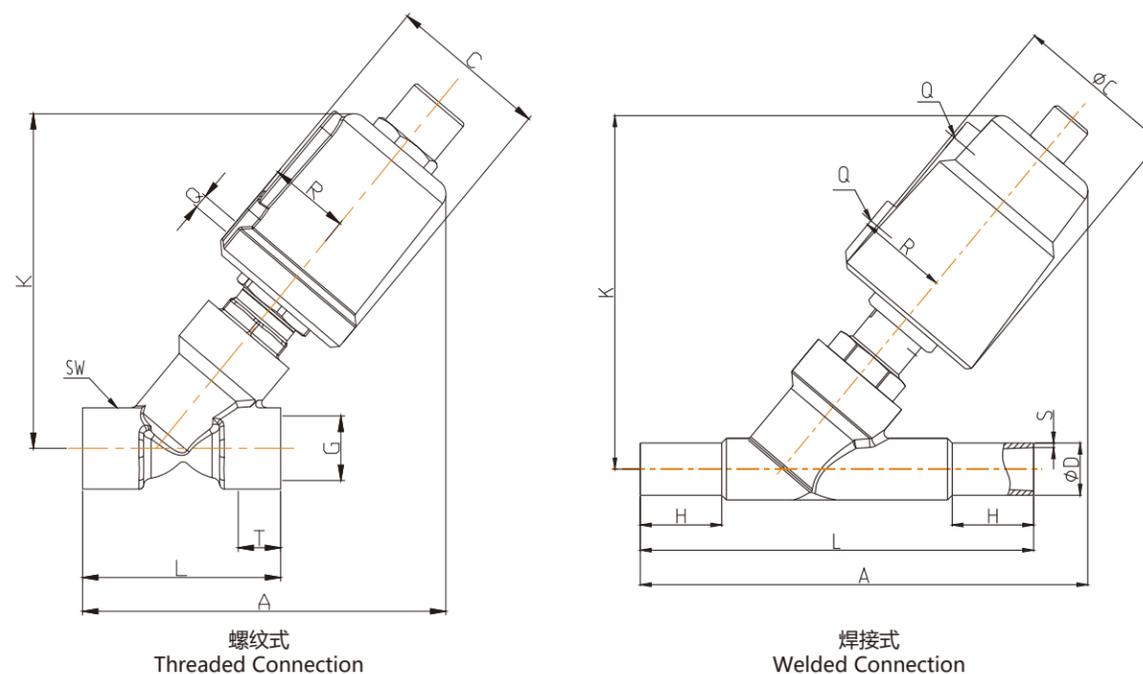
Advantages

- Diaphragm is used to isolate the medium, avoiding valve stem from seizing due to medium crystallization or being viscous with particles.
- Stainless steel actuator, better performance for harsh environments and can rotate 360°.

Function Principle

Diaphragm is arranged between the valve body and the bonnet to isolate the medium in place of the stem packing
Valve stays closed(open) by spring force in its normal state.
When piston is actuated by compressed air, valve becomes opened (close).

For double acting type, valve is opened and closed by compressed air.



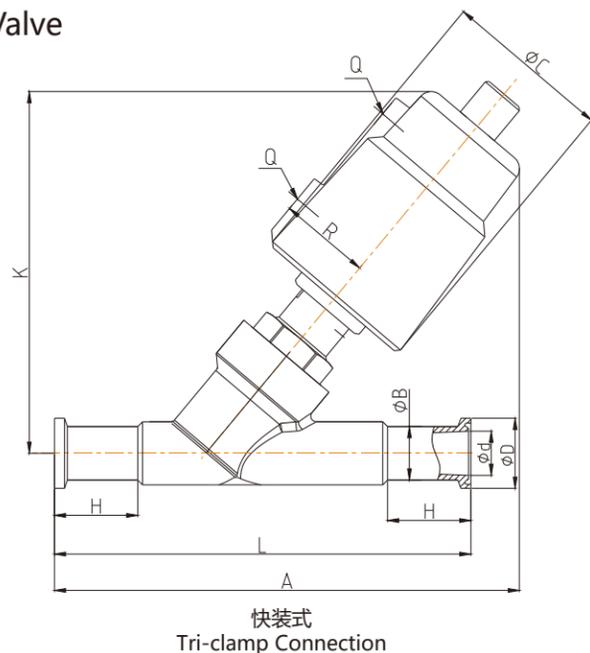
外形尺寸(螺纹式) Main Dimension (Threaded Connection)

规格 Size	执行器 Actuator (mm)	Q	C	R	K	A	G	T	L	SW
DN15	40	1/8"	50.5	27	115	125	1/2"	16	65	27
DN20	50	1/8"	60	33	130	140	3/4"	18	75	32
DN25	50	1/8"	60	33	140	150	1"	20	90	40
	63	1/8"	75	41	155	165				
DN32	63	1/8"	75	41	170	185	1 1/4"	22	110	50
	90	1/8"	106	55	215	225				
DN40	63	1/8"	75	41	180	195	1 1/2"	24	120	56
	90	1/8"	106	55	220	230				
DN50	63	1/8"	75	41	180	210	2"	26	150	69
	90	1/8"	106	55	230	255				

外形尺寸(焊接式) Main Dimension (Welded Connection)

规格 Size	执行器 Actuator (mm)	Q	C	R	K	A	L	H	ASME BPE	
									φD	S
DN8	40	1/8"	50.5	27	118	122	70	7	6.35	0.89
DN10	40	1/8"	50.5	27	118	122	70	7	9.35	0.89
DN15	40	1/8"	50.5	27	115	150	135	30	12.7	1.65
DN20	50	1/8"	60	33	130	165	145	30	19.05	1.65
DN25	50	1/8"	60	33	140	175	152	30	25.4	1.65
	63	1/8"	75	41	155	190				
DN40	63	1/8"	75	41	175	215	182	30	38.1	1.65
	90	1/8"	106	55	215	250				
DN50	63	1/8"	75	41	180	225	210	30	50.8	1.65
	90	1/8"	106	55	225	265				

角座阀 Angle Seat Valve



外形尺寸(快装式) Main Dimension (Tri-clamp Connection)

规格 Size	执行器 Actuator (mm)	Q	C	R	K	A	L	ASME BPE			
								D	B	d	H
DN15	40	1/8"	50.5	27	115	150	130	25	12.7	9.4	30
DN20	50	1/8"	60	33	125	165	150	25	19.05	15.75	30
DN25	50	1/8"	60	33	140	175	160	50.5	25.4	22.1	30
	63	1/8"	75	41	155	195					
DN40	63	1/8"	75	41	175	225	200	50.5	38.1	34.8	30
	90	1/8"	106	55	215	230					
DN50	63	1/8"	75	41	180	230	230	64	50.8	47.5	30
	90	1/8"	106	55	225	275					

压力参数

单作用常闭—反向/阀座下流 (防水锤)
Single Acting, Normally Closed (NC)
-Enter Below Seat (Minimize water-hammer)

规格 Size	接口 Thread end	内孔 mm Orifice (mm)	流量值KV m ³ /h Flow value Kv(m ³ /h)	执行器 mm Actuator (mm)	压差范围 MPa Differential pressurage R(MPa)	控制压力 MPa Control pressure (MPa)
DN15	1/2"	13	3	40	0-1.0	≥ 0.5
DN20	3/4"	18	5.8	50	0-1.0	≥0.5
DN25	1"	24	11.6	50	0-0.7	≥5.5
				63	0-1.0	≥0.6
DN32	1 1/4"	31	17.3	63	0-0.6	≥0.6
				90	0-1.0	≥0.5
DN40	1 1/2"	35	22.7	63	0-0.5	≥0.55
				90	0-1.0	≥0.75
DN50	G2"	45	35.6	63	0-0.2	≥0.6
				90	0-1.0	≥0.75

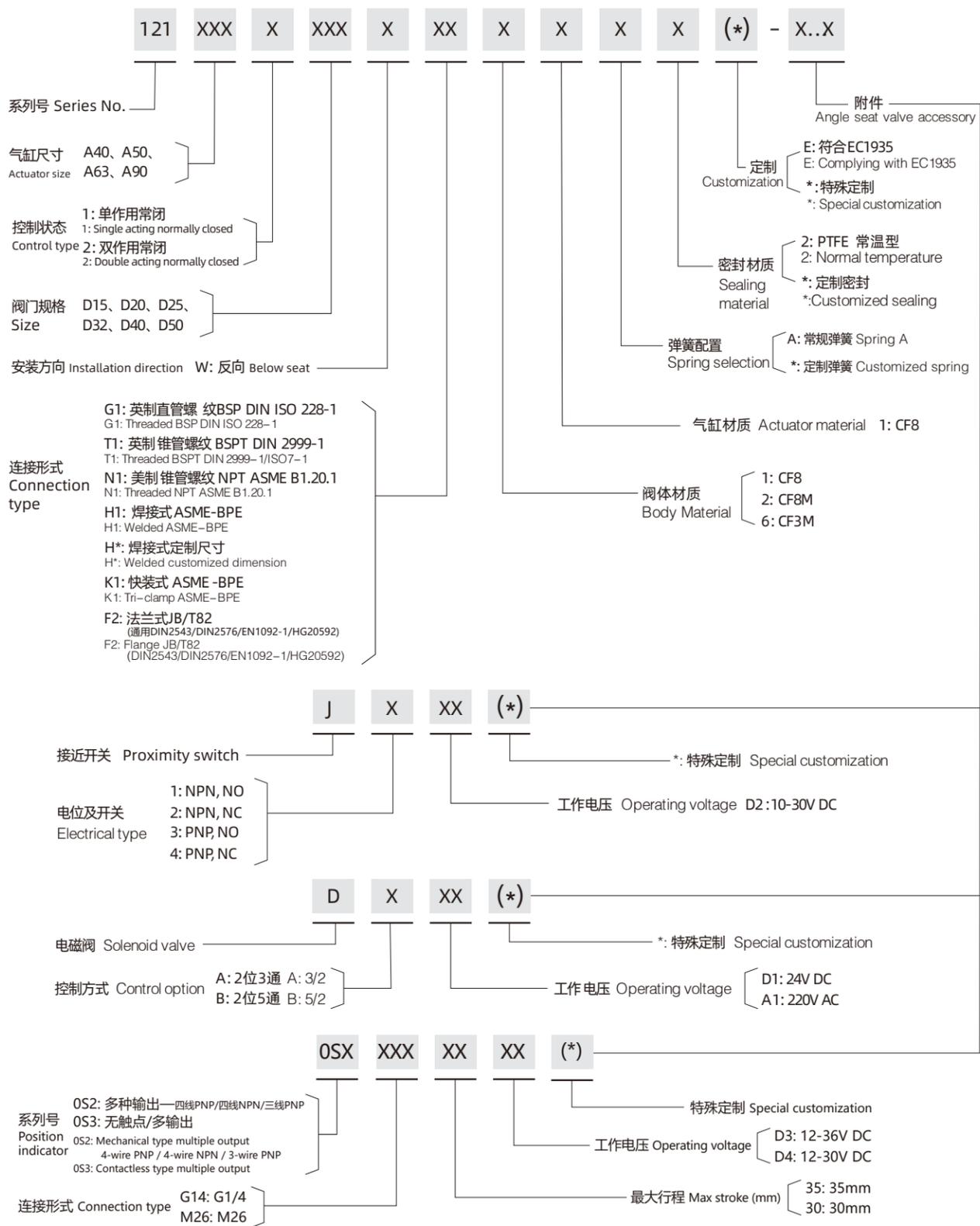
双作用常闭--反向/阀座下流 (防水锤)
Double Acting, Normally Closed (NC)
-Enter Below Seat (Minimize water-hammer)

规格 Size	接口 Thread end	内孔 mm Orifice (mm)	流量值KV m ³ /h Flow value Kv(m ³ /h)	执行器 mm Actuator (mm)	压差范围 MPa Differential pressurage R(MPa)	控制压力 MPa Control pressure (MPa)
DN15	1/2"	13	3	40	0-1.0	≥ 0.5
DN20	3/4"	18	5.8	50	0-1.0	≥0.45
DN25	1"	24	11.6	50	0-1.0	≥0.45
				63	0-1.0	≥0.4
DN32	1 1/4"	31	17.3	63	0-1.0	≥0.4
				90	0-1.0	≥0.35
DN40	1 1/2"	35	22.7	63	0-1.0	0.4~0.5
				90	0-1.0	0.3~0.4
DN50	G2"	45	35.6	63	0-1.0	0.4~0.7
				90	0-1.0	0.3~0.4

注: 为保证产品性能, 建议产品选型按≤90%压力范围中的最高值!

Note: In order to ensure product performance, it is recommended to select product according to the highest value in the ≤ 90% pressure range

订货说明 Order Instruction



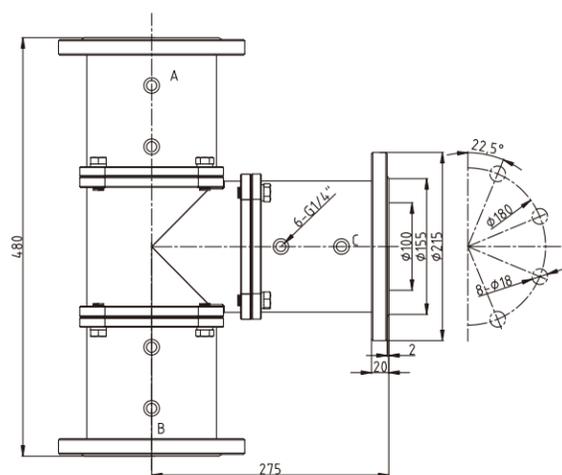
三通梭阀
3-way shuttle valve



技术参数 Technical Specification

- 工作压力: 0~10bar
- 控制压力: 3~8bar
- 控制介质: 洁净的压缩空气或中性气体
- 阀体材质: CF8
- 密封材质: EPDM/FPM (氟橡胶 FPM 需要订做)
- 适用介质: EPDM 适用于热水和蒸汽, 不适用于油脂类、燃料等
FPM 适用于绝大多数介质, 蒸汽除外
- 介质温度: -20°C~130°C
- 环境温度: -20°C~80°C
- 控制形式: 双作用自由态
- 连接形式: 法兰式 JB/T82.1
- 泄漏等级: DIN EN 12266 A 级

- Operating pressure: 0-10 bar
- Control pressure: 3-8 bar
- Control fluid: Filtered compressed air or neutral gas
- Body material: CF8
- Seal material: EPDM/FPM (FPM need to be customised)
- Applicable medium:
- EPDM: Suitable for steam and hot water. Unsuitable for oils, greases, fuels, etc.
- Greases temperature: -20°C - 130°C
- Ambient temperature: -20°C - 80°C
- Control type: Double acting without spring
- Connection type: Flanged JB/T82.1
- Leakage class: DIN EN 12266 Class A



特点 Advantage

1. 体积小 外观美 寿命长
采用不锈钢阀体, 外观高档, 耐腐蚀。活塞与密封合二为一, 简单可靠, 具有超长使用寿命, 可任意方向安装;
2. 速度快 压损小 噪音小
阀体内介质流态更好, 由于介质压力作用在阀座上活塞几乎不受阻力干扰, 所以开关速度快, 压损小, 噪音小。

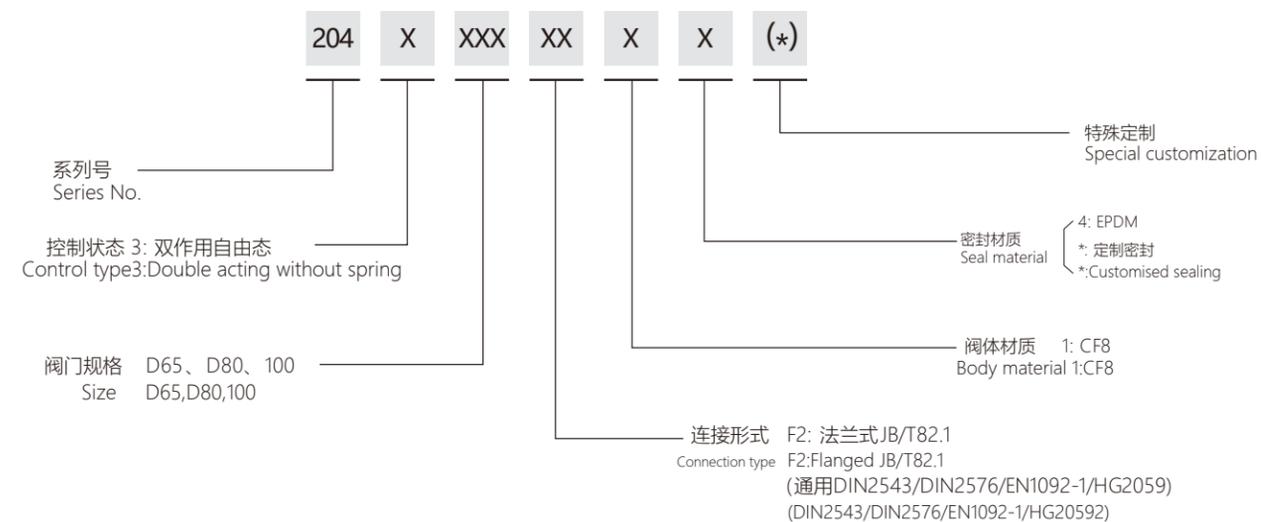
1. Small Size, Elegant Appearance, and Long Service Life
Adopting a stainless steel valve body, it features a high-end appearance and corrosion resistance. The piston and seal are integrated into one, ensuring simplicity and reliability, along with an ultra-long service life. It can be installed in any direction.
2. Fast Speed, Low Pressure Loss, and Low Noise
The medium flow pattern inside the valve body is optimized. Since the medium pressure acts on the valve seat, the piston is hardly affected by resistance, resulting in fast opening and closing speeds, low pressure loss, and low noise

工作原理 Function principle

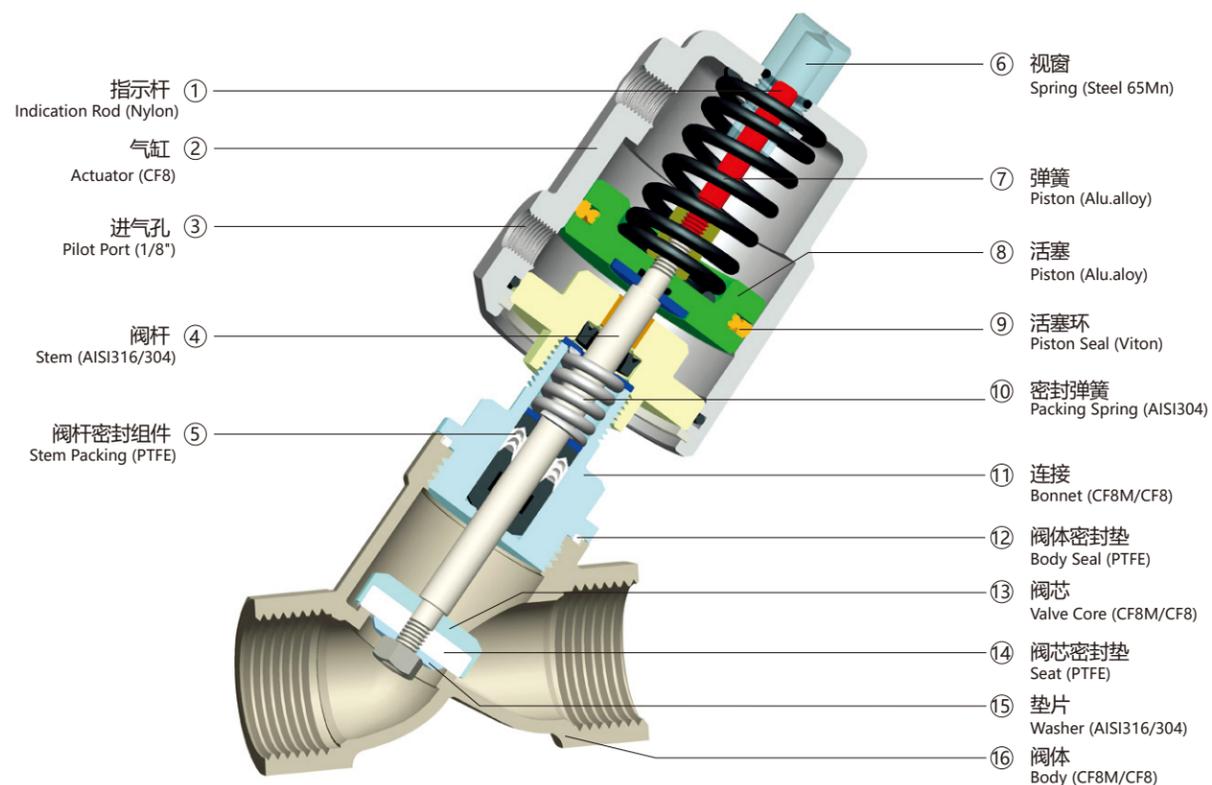
压缩空气迫使活塞往复运动, 达到阀门的开启与关闭。本阀门共有三处通孔, 可实现换向、分流或混合功能, 在一定程度上可以代替三支两通截止阀。

Compressed air forces the piston to reciprocate, achieving the opening and closing of the valve. This valve has three through-holes, which can realize reversing, diverting or mixing functions. To a certain extent, it can replace three two-way globe valves.

订货说明 Order Instruction



角座阀 Angle Seat Valve

100系列螺纹式气控角座阀
100 Series
Threaded Angle Seat Valve100系列焊接式气控角座阀
100 Series
Welded Angle Seat Valve100系列快装式气控角座阀
100 Series
Tri-clamp Angle Seat Valve100系列(圆口)法兰式气控角座阀
100 Series Flanged
Angle Seat Valve with Round Bonnet100系列(方口)法兰式气控角座阀
100 Series Flanged
Angle Seat Valve with Square Bonnet

技术参数

- 工作压力: 0-16bar (0-232psi)
- 控制压力: 3-8bar (43.5-116psi)
- 控制介质: 洁净的压缩空气或中性气体
- 阀体材质: CF8/CF8M/CF3M及其他特殊材质
- 密封材质: PTFE
- 气缸材质: CF8 (40mm-90mm气缸)、AL (125mm气缸)
- 气缸尺寸: 40mm, 50mm, 63mm, 90mm, 125mm
- 适用介质: 水, 酒精, 油, 燃料, 蒸汽, 中性气体或液体, 有机溶剂, 酸碱溶液
- 介质粘度: Max 600mm²/s
- 介质温度: -10°C — +180°C (PTFE常温型)
+25°C — +220°C (PTFE高温型)
- 环境温度: -10°C — +80°C
- 控制形式: 单作用常闭, 常开, 双作用常闭, 双作用自由态
- 连接形式: 螺纹式, 焊接式, 法兰式, 快装式
- 泄漏等级: DIN EN 12266 A级

工作原理 Function Principle

在非工作状态时, 由于弹簧力作用, 阀门常闭(开)。当执行器活塞被压缩气体作用时, 阀门打开(关闭)。双作用形式靠压缩气体控制阀门开关。Valve stays closed(open) by spring force in its normal state. When piston is actuated by compressed air, valve becomes opened (closed). For double acting type, valve is opened and closed by compressed air.

应用范围 Applications

- 啤酒饮料 Brewery
- 印染 Textile dyeing
- 空分 Air separation
- 制药 Pharmaceutical
- 灌装 Filling machines
- 化工 Chemical
- 灭菌 Sterilization
- 泡塑 EPS molding
- 环保 Environmental equipments
- 其它 Others

Technical Specification

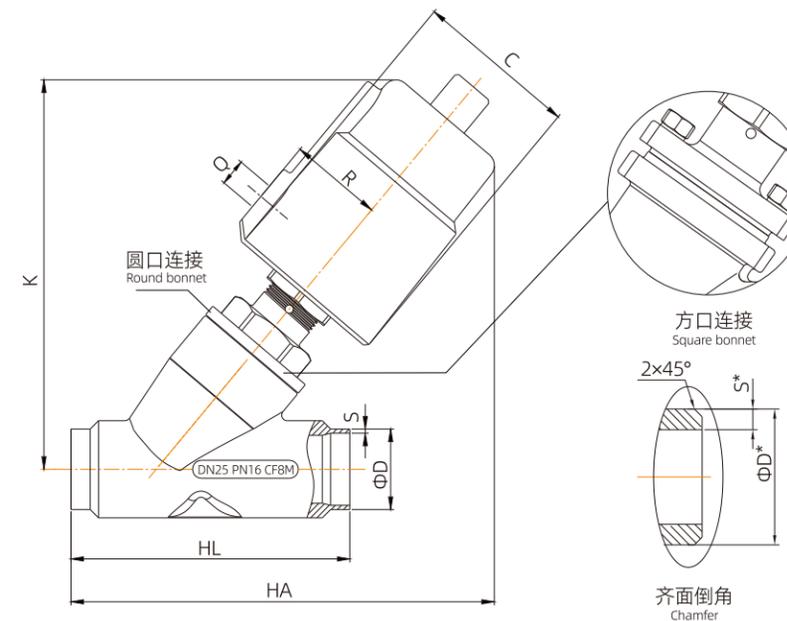
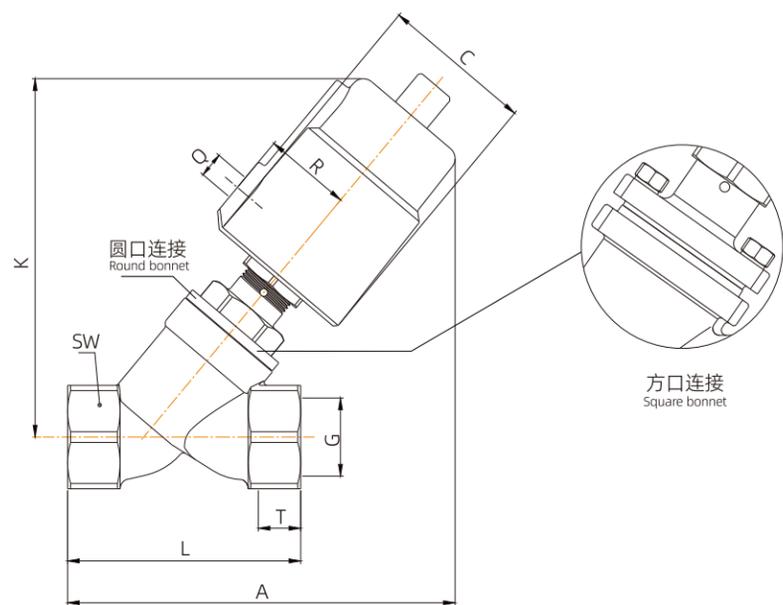
- Operating pressure: 0-16bar (0-232psi)
- Control pressure: 3-8bar (43.5-116psi)
- Control fluid: Neutral gas, Air
- Body material: CF8/CF8M/CF3M
- Seal material: PTFE
- Actuator material: CF8 (40mm-90mm Actuator), AL (125mm Actuator)
- Actuator size: 40mm, 50mm, 63mm, 90mm, 125mm
- Applicable fluid: Water, Alcohol, Oil, Fuel, Steam, Neutral gas or Liquid, Organic solvent, Acid and lye
- Fluid viscosity: Max 600mm²/s
- Fluid temperature: -10°C — +180°C, +25°C — +220°C
- Ambient temperature: -10°C — +80°C
- Control type: Normally closed, Normally open, Double acting normally closed, Double acting without spring
- Connection type: Threaded, Welded, Flanged, Tri-clamp
- Leakage class: DIN EN 12266 Class A

特点

- 流量大、流阻小、无水锤;
- Y型设计, 增加30%流量;
- 超长使用寿命;
- 阀杆自动校正, 自润滑;
- 气缸采用不锈钢材质, 在恶劣的环境中更加优秀, 可360°旋转。

Advantages

- Large flux, low resistance, prevent water-hammer.
- Y-type raises flux by 30% and make flow more smooth.
- Long working life.
- The stem adjusts and lubricates itself automatically, minimizing needs for maintaince.
- The stainless steel actuator can be rotated 360° for flexible uses.



外形尺寸 (螺纹式) Main Dimension (Threaded Connection)

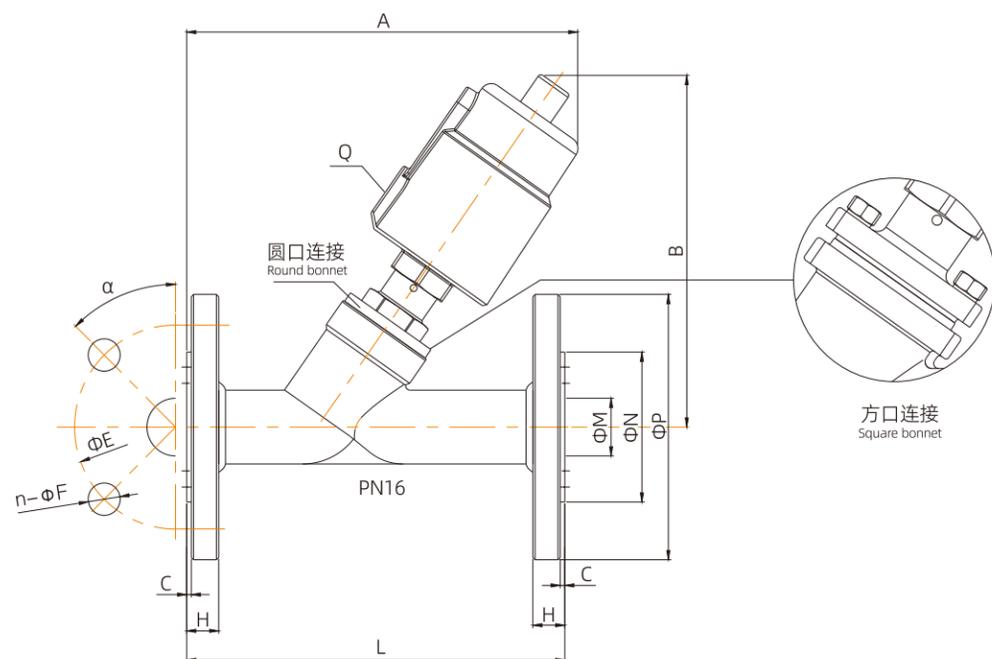
规格 Size	执行器 Actuator(mm)	Q	C	R	K	G	T	A	L	SW
DN8	40	1/8"	50.5	27	112	1/4"	12	124	68	27
	50	1/8"	60	33	125			135		
DN10	40	1/8"	50.5	27	112	3/8"	12	124	68	27
	50	1/8"	60	33	125			135		
DN15	40	1/8"	50.5	27	112	1/2"	15	124	68	27
	50	1/8"	60	33	125			135		
DN20	50	1/8"	60	33	132	3/4"	16	140	75	32
DN25	50	1/8"	60	33	136	1"	17	150	90	40
	63	1/8"	75	41	162			172		
DN32	63	1/8"	75	41	174	1 1/4"	21	190	116	50
	90	1/8"	106	55	223			235		
DN40	63	1/8"	75	41	175	1 1/2"	21	190	116	56
	90	1/8"	106	55	223			235		
DN50	63	1/8"	75	41	183	2"	22	205	138	69
	90	1/8"	106	55	232			250		
	125AL	1/4"	170	85	300			305		
DN65方口 Square bonnet	90	1/8"	106	55	280	2 1/2"	26	275	178	85
	125AL	1/4"	170	85	330			320		
DN80方口 Square bonnet	125AL	1/4"	170	85	355	3"	27	340	210	100

外形尺寸 (焊接式) Main Dimension (Welded Connection)

规格 Size	执行器 Actuator(mm)	Q	C	R	K	HA	HL	齐面倒角 Chamfer		DIN11850-2		DIN11850-3	
								ΦD*	S*	ΦD	S	ΦD	S
DN15	40	1/8"	50.5	27	112	118	70	22	3.5	19	1.5	20	2
	50	1/8"	60	33	125	128							
DN20	50	1/8"	60	33	132	135	82	29	5	23	1.5	24	2
	50	1/8"	60	33	136	150							
DN25	63	1/8"	75	41	162	175	100	35	5	29	1.5	30	2
	63	1/8"	75	41	174	186							
DN32	90	1/8"	106	55	223	232	125	39	4	35	1.5	36	2
	63	1/8"	75	41	175	190							
DN40	90	1/8"	106	55	223	235	130	45	4.5	41	1.5	42	2
	63	1/8"	75	41	183	206							
DN50	90	1/8"	106	55	232	250	155	57	4	53	1.5	54	2
	125AL	1/4"	170	85	300	307							
	90	1/8"	106	55	280	320							
DN65方口 Square bonnet	125AL	1/4"	170	85	330	360	270	75	5	70	2	-	-
DN80方口 Square bonnet	125AL	1/4"	170	85	355	360	284	90	5.5	85	2	-	-

注: *标识的尺寸为毛坯设计尺寸 (实际尺寸可能有偏差, 仅供参考)

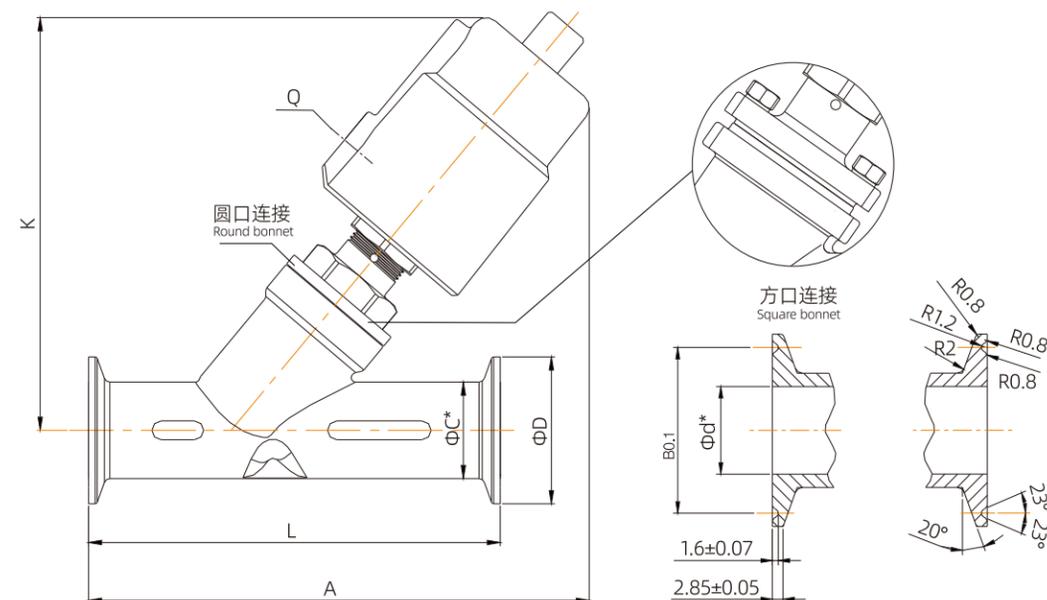
Note: * designates design dimension (the actual dimension may vary)



法兰标准: JB/T82 (通用标准DIN2543/DIN2576/EN1092-1/HG20592); 可根据客户要求定制, ISO/DIN/JIS等标准
Flange specification: JB/T82 DIN2543/DIN2576/EN1092-1/HG20592; ISO/ANSI/DIN/JIS customization available.

外形尺寸 (法兰式) Main Dimension (Flange Connection)

规格 Size	执行器 Actuator(mm)	Q	A	B	L	C	H	ΦE	n-ΦF	ΦM	ΦN	ΦP	α
DN15	40	1/8"	135	125	130	2	14	65	4-14	18	45	95	45°
	50		145	140									
DN20	50	1/8"	165	140	150	2	14	75	4-14	21	56	105	45°
	50		170	145									
DN25	50	1/8"	170	145	160	2	14	85	4-14	28	65	115	45°
	63		190	175									
DN32	63	1/8"	190	188	180	2	16	100	4-18	34	78	140	45°
	90		230	235									
DN40	63	1/8"	206	190	200	3	16	110	4-18	41	84	150	45°
	90		250	240									
DN50	63	1/8"	235	195	230	3	16	125	4-18	54	100	165	45°
	90		277	245									
	125AL		330	310									
DN65方口 Square bonnet	90	1/8"	330	280	290	3	18	145	4-18	71	120	185	45°
	125AL		375	330									
DN80方口 Square bonnet	125AL	1/4"	380	355	310	3	20	160	8-18	84	135	200	22.5°
DN100方口 Square bonnet	125AL	1/4"	420	395	350	3	20	180	8-18	96	155	215	22.5°



快装接头标准: ISO 2852; 可根据客户要求定制
Clamp Specification: ISO 2852; customization available.

外形尺寸 (快装式) Main Dimension (Tri-clamp Connection)

规格 Size	执行器 Actuator(mm)	Q	A	K	L	ΦC*	ΦB	Φd*	ΦD
DN15	40	1/8"	130	115	80	20.5	27.5	15	34
	50	1/8"	140	126					
DN20	50	1/8"	158	148	130	25	43.5	19	50.5
	50	1/8"	165	140					
DN25	50	1/8"	165	140	130	33	43.5	27	50.5
	63	1/8"	188	166					
DN32	63	1/8"	200	174	146	37	43.5	31	50.5
	90	1/8"	245	223					
DN40	63	1/8"	210	175	160	40	56.5	34	64
	90	1/8"	255	223					
DN50	63	1/8"	221	185	175	53	56.5	45	64
	90	1/8"	265	235					
	125AL	1/4"	325	296					
DN65方口 Square bonnet	90	1/8"	325	280	278	75	83.5	65	91
	125AL	1/4"	360	330					
DN80方口 Square bonnet	125AL	1/4"	360	352	290	89	89.5	78.5	106

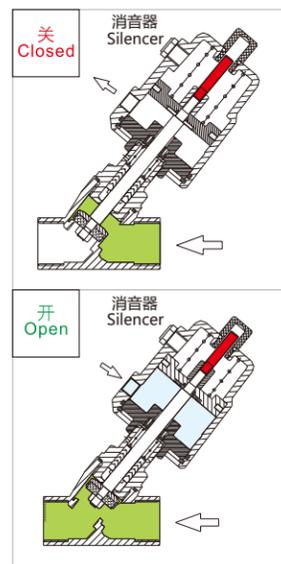
注: *标识的尺寸为毛坯设计尺寸 (实际尺寸可能有偏差, 仅供参考)

Note: * designates design dimension (the actual dimension may vary)

角座阀 Angle Seat Valve

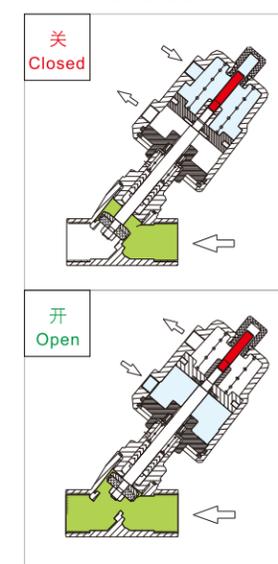
单作用常闭——正向/阀座上流 Single Acting, Normally Closed (NC)–Enter Above Seat

规格 Size	接口 Thread end	内孔 Orifice (mm)	流量值 Flow value Kv(m ³ /h)	执行器 Actuator (mm)	压差范围 Differential pressure range P(MPa)	控制压力 Control pressure (MPa)
DN8	G1/4"	9.5	1.8	28	0-1.0	0.5-0.7
		13	2.2	40	0-1.6	0.4-0.45
DN10	G3/8"	9.5	2.2	28	0-1.0	0.5-0.7
		13	3.9	40	0-1.6	0.4-0.45
DN15	G1/2"	9.5	2.2	28	0-1.0	0.5-0.7
		13	4.3	40	0-1.6	0.4-0.45
DN20	G3/4"	18	7.6	50	0-1.6	0.35-0.5
DN25	G1"	50	15.8	50	0-1.6	0.35-0.55
		63	0-1.6	0.3-0.4		
DN32	G1 1/4"	63	26.0	63	0-1.6	0.3-0.55
		90	0-1.6	0.3-0.35		
DN40	G1 1/2"	63	32.0	63	0-1.6	0.3-0.7
		90	0-1.6	0.3-0.4		
DN50	G2"	63	52.0	63	0-0.9	0.3-0.7
		90	0-1.6	0.3-0.45		
DN65	G2 1/2"	90	83.2	90	0-1.6	0.3-0.6
		125	0-1.6	0.3-0.4		
DN80	G3"	80	119	125	0-1.2	0.3-0.7
DN100	G4"	90	132	125	0-1.0	0.4-0.7

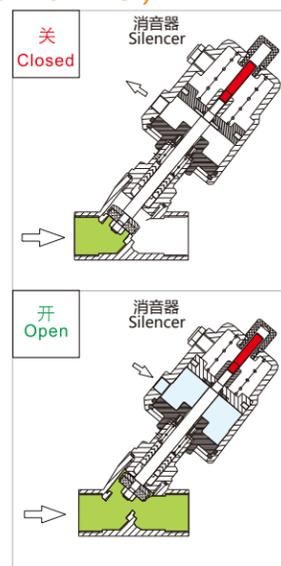


双作用常闭——正向/阀座上流 Double Acting, Normally Closed (NC)–Enter Above Seat

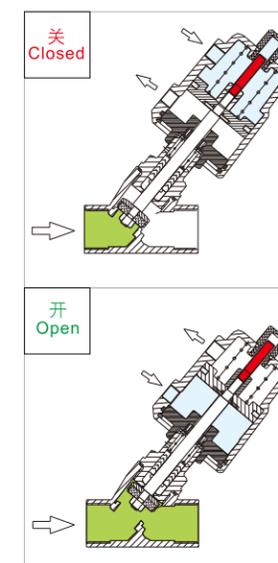
规格 Size	接口 Thread end	内孔 Orifice (mm)	流量值 Flow value Kv(m ³ /h)	执行器 Actuator (mm)	压差范围 Differential pressure range P(MPa)	控制压力 Control pressure (MPa)
DN8	G1/4"	13	2.2	40	0-1.6	0.4-0.45
				50	0-1.6	0.35-0.4
DN10	G3/8"	13	3.9	40	0-1.6	0.4-0.45
				50	0-1.6	0.35-0.4
DN15	G1/2"	13	4.3	40	0-1.6	0.4-0.45
				50	0-1.6	0.35-0.4
DN20	G3/4"	18	7.6	50	0-1.6	0.35-0.5
				50	0-1.6	0.35-0.55
DN25	G1"	24	15.8	63	0-1.6	0.3-0.4
				90	0-1.6	0.3-0.35
DN32	G1 1/4"	31	26.0	63	0-1.6	0.3-0.35
				90	0-1.6	0.3-0.35
DN40	G1 1/2"	35	32.0	63	0-1.6	0.3-0.7
				90	0-1.6	0.3-0.4
DN50	G2"	45	52.0	63	0-0.9	0.3-0.7
				90	0-1.6	0.3-0.45
DN65	G2 1/2"	61	83.2	125	0-1.6	0.3-0.4
				90	0-1.0	0.3-0.6
DN80	G3"	80	119	125	0-1.2	0.3-0.7
DN100	G4"	90	132	125	0-1.0	0.4-0.7

单作用常闭——反向/阀座下流(防水锤)
Single Acting, Normally Closed (NC)–Enter Below Seat (Minimize water-hammer)

规格 Size	接口 Thread end	内孔 Orifice (mm)	流量值 Flow value Kv(m ³ /h)	执行器 Actuator (mm)	压差范围 Differential pressure range P(MPa)	控制压力 Control pressure (MPa)
DN8	G1/4"	9.5	1.8	28-A	0-1.0	≥0.5
				40-A	0-1.3	≥0.4
				50-A	0-1.4	≥0.45
DN10	G3/8"	9.5	2.2	28-A	0-1.0	≥0.5
				40-A	0-1.3	≥0.4
				50-A	0-1.4	≥0.45
DN15	G1/2"	9.5	2.2	28-A	0-1.0	≥0.5
				40-A	0-1.3	≥0.4
				50-A	0-1.4	≥0.45
DN20	G3/4"	18	7.6	50-A	0-1.4	≥0.45
				50-A	0-0.8	≥0.45
				63-A	0-1.3	≥0.5
DN25	G1"	24	15.8	63-B	0-0.8	≥0.3
				63-A	0-0.6	≥0.5
				90-A	0-1.6	≥0.6
DN32	G1 1/4"	31	26.0	90-B	0-1.3	≥0.45
				63-A	0-0.5	≥0.5
				90-A	0-1.6	≥0.6
DN40	G1 1/2"	35	32.0	90-B	0-1.1	≥0.45
				63-A	0-0.2	≥0.5
				90-A	0-1.0	≥0.6
DN50	G2"	45	52.0	90-B	0-0.7	≥0.45
				125-A	0-1.6	≥0.55
				125-B	0-1.1	≥0.45
DN65	G2 1/2"	61	83.2	90-A	0-0.5	≥0.6
				90-B	0-0.2	≥0.45
				125-A	0-0.9	≥0.55
DN80	G3"	80	119	125-B	0-0.6	≥0.45
				125-D	0-0.5	≥0.35
				125-A	0-0.5	≥0.55
DN100	G4"	90	132	125-C	0-0.2	≥0.4
				125-A	0-0.5	≥0.55
				125-B	0-0.3	≥0.45

双作用常闭——反向/阀座下流(防水锤)
Double Acting, Normally Closed (NC)–Enter Below Seat (Minimize water-hammer)

规格 Size	接口 Thread end	内孔 Orifice (mm)	流量值 Flow value Kv(m ³ /h)	执行器 Actuator (mm)	压差范围 Differential pressure range P(MPa)	控制压力 Control pressure (MPa)
DN8	G1/4"	13	2.2	40	0-1.6	≥0.4
				50	0-1.6	≥0.35
DN10	G3/8"	13	3.9	40	0-1.6	≥0.4
				50	0-1.6	≥0.35
DN15	G1/2"	13	4.3	40	0-1.6	≥0.4
				50	0-1.6	≥0.35
DN20	G3/4"	18	7.6	50	0-1.6	≥0.35
				50	0-1.3	0.3-0.6
DN25	G1"	24	15.8	63	0-1.6	0.3-0.4
				90	0-1.6	0.3-0.4
DN32	G1 1/4"	31	26.0	63	0-1.6	0.3-0.7
				90	0-1.6	0.3-0.5
DN40	G1 1/2"	35	32.0	63	0-1.6	0.3-0.75
				90	0-1.6	0.3-0.6
DN50	G2"	45	52.0	90	0-1.6	0.3-0.6
				125	0-1.6	0.3-0.4
DN65	G2 1/2"	61	83.2	90	0-1.1	0.3-0.7
				125	0-1.6	0.3-0.55
DN80	G3"	80	119	125	0-1.6	0.3-0.7
DN100	G4"	90	132	125	0-1.2	0.4-0.6



注: 为保证以上产品性能, 建议产品选型按≤90%压力范围中的最高值!

Note: In order to ensure product performance, it is recommended to select product according to the highest value in the ≤ 90% pressure range

注: 为保证以上产品性能, 建议产品选型按≤90%压力范围中的最高值!

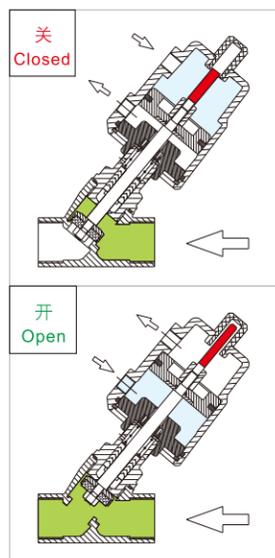
Note: In order to ensure product performance, it is recommended to select product according to the highest value in the ≤ 90% pressure range

角座阀 Angle Seat Valve

双作用自由态——正向/阀座上流

Double Acting Without Spring—Enter Above Seat

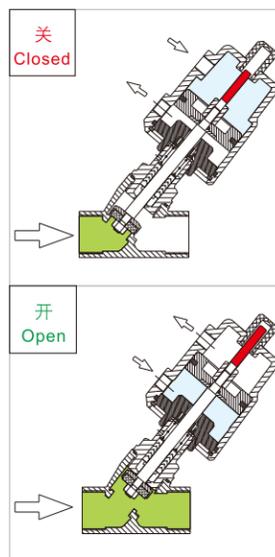
规格 Size	接口 Thread end	内孔 Orifice (mm)	流量值 Flow value Kv(m ³ /h)	执行器 Actuator (mm)	压差范围 Differential pressure range P(MPa)	控制压力 Control pressure (MPa)
DN8	G1/4"	13	2.2	40	0-1.6	0.3-0.45
				50	0-1.6	0.3-0.35
DN10	G3/8"	13	3.9	40	0-1.6	0.3-0.45
				50	0-1.6	0.3-0.35
DN15	G1/2"	13	4.3	40	0-1.6	0.3-0.45
				50	0-1.6	0.3-0.35
DN20	G3/4"	18	7.6	50	0-1.6	0.3-0.4
				50	0-1.6	0.3-0.45
DN25	G1"	24	15.8	50	0-1.6	0.3-0.45
				63	0-1.6	0.3-0.35
DN32	G1 1/4"	31	26.0	63	0-1.6	0.3-0.55
				90	0-1.6	0.3-0.4
DN40	G1 1/2"	35	32.0	63	0-1.6	0.3-0.65
				90	0-1.6	0.3-0.4
DN50	G2"	45	52.0	63	0-1.0	0.3-0.7
				90	0-1.6	0.3-0.45
				125	0-1.6	0.3-0.4
DN65	G2 1/2"	61	83.2	90	0-1.0	0.3-0.6
				125	0-1.6	0.3-0.4
DN80	G3"	80	119	125	0-1.2	0.3-0.7
DN100	G4"	90	132	125	0-1.0	0.4-0.7



双作用自由态——反向/阀座下流 (防水锤)

Double Acting Without Spring—Enter Below Seat (Minimize water-hammer)

规格 Size	接口 Thread end	内孔 Orifice (mm)	流量值 Flow value Kv(m ³ /h)	执行器 Actuator (mm)	压差范围 Differential pressure range P(MPa)	控制压力 Control pressure (MPa)
DN8	G1/4"	13	2.2	40	0-1.6	0.3-0.4
				50	0-1.6	0.3-0.4
DN10	G3/8"	13	3.9	40	0-1.6	0.3-0.4
				50	0-1.6	0.3-0.4
DN15	G1/2"	13	4.3	40	0-1.6	0.3-0.4
				50	0-1.6	0.3-0.4
DN20	G3/4"	18	7.6	50	0-1.6	0.3-0.4
				50	0-1.6	0.3-0.65
DN25	G1"	24	15.8	50	0-1.6	0.3-0.65
				63	0-1.6	0.3-0.55
DN32	G1 1/4"	31	26.0	63	0-1.6	0.3-0.7
				90	0-1.6	0.3-0.45
DN40	G1 1/2"	35	32.0	63	0-1.2	0.3-0.75
				90	0-1.6	0.3-0.5
DN50	G2"	45	52.0	63	0-0.4	0.3-0.75
				90	0-1.6	0.3-0.6
				125	0-1.6	0.3-0.4
DN65	G2 1/2"	61	83.2	90	0-1.0	0.3-0.75
				125	0-1.6	0.3-0.6
DN80	G3"	80	119	125	0-1.0	0.3-0.7
DN100	G4"	90	132	125	0-0.8	0.3-0.75



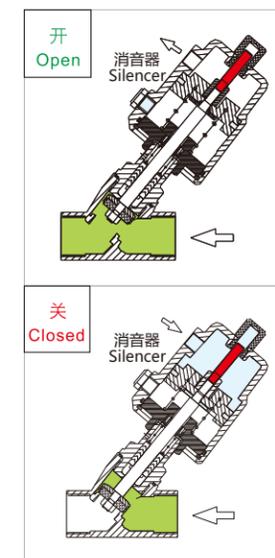
注：为保证以上产品性能，建议产品选型按≤90%压力范围中的最高值！

Note: In order to ensure product performance, it is recommended to select product according to the highest value in the ≤ 90% pressure range.

常开——正向/阀座上流

Normally Open(NO)-Enter Above Seat

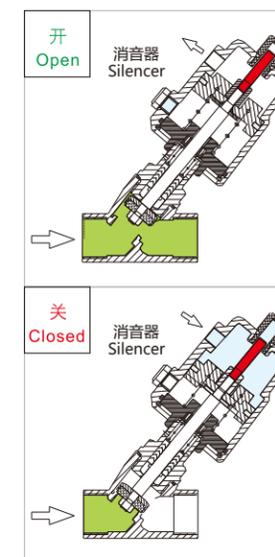
规格 Size	接口 Thread end	内孔 Orifice (mm)	流量值 Flow value Kv(m ³ /h)	执行器 Actuator (mm)	压差范围 Differential pressure range P(MPa)	控制压力 Control pressure (MPa)
DN8	G1/4"	13	2.2	40	0-1.6	≥0.3
				50	0-1.6	≥0.3
DN10	G3/8"	13	3.9	40	0-1.6	≥0.3
				50	0-1.6	≥0.3
DN15	G1/2"	13	4.3	40	0-1.6	≥0.3
				50	0-1.6	≥0.3
DN20	G3/4"	18	7.6	50	0-1.2	≥0.3
				50	0-0.3	≥0.3
DN25	G1"	24	15.8	50	0-0.3	≥0.3
				63	0-1.6	≥0.45
DN32	G1 1/4"	31	26.0	63	0-1.4	≥0.45
DN40	G1 1/2"	35	32.0	63	0-1.4	≥0.45
DN50	G2"	45	52.0	63	0-0.6	≥0.45



常开——反向/阀座下流 (防水锤)

Normally Open(NO)-Enter Below Seat (Minimize water-hammer)

规格 Size	接口 Thread end	内孔 Orifice (mm)	流量值 Flow value Kv(m ³ /h)	执行器 Actuator (mm)	压差范围 Differential pressure range P(MPa)	控制压力 Control pressure (MPa)
DN8	G1/4"	13	2.2	40	0-1.6	0.3-0.5
				50	0-1.6	0.3-0.4
DN10	G3/8"	13	3.9	40	0-1.6	0.3-0.5
				50	0-1.6	0.3-0.4
DN15	G1/2"	13	4.3	40	0-1.6	0.3-0.5
				50	0-1.6	0.3-0.4
DN20	G3/4"	18	7.6	50	0-1.6	0.3-0.6
				50	0-1.3	0.3-0.6
DN25	G1"	24	15.8	50	0-1.3	0.3-0.6
				63	0-1.6	0.3-0.5
DN32	G1 1/4"	31	26.0	63	0-1.3	0.3-0.6
DN40	G1 1/2"	35	32.0	63	0-0.7	0.3-0.6
				90	0-1.6	0.3-0.45
DN50	G2"	45	52.0	63	0-0.5	0.3-0.6
				90	0-1.2	0.3-0.6
DN65	G2 1/2"	61	83.2	90	0-0.75	0.3-0.6
				125	0-1.4	0.3-0.7
DN80	G3"	80	119	125	0-1.2	0.3-0.7



注：为保证以上产品性能，建议产品选型按≤90%压力范围中的最高值！

Note: In order to ensure product performance, it is recommended to select product according to the highest value in the ≤ 90% pressure range.

角座阀 Angle Seat Valve

角座阀配接近开关
Angle Seat Valve
with Proximity Switch

接近开关附件 Proximity Switch

适用于所有口径角座阀，用来检测阀门开/关状态，反馈阀门启/闭信号。

Proximity switch can be mounted on angle seat valves of all sizes to monitor and feedback open state of the valve.

技术参数 Technical Specification

- 工作电压：10-30V DC
 - 防护等级：IP67
 - 检测距离：3mm ± 10% (可另选)
 - 环境温度：-25°C — +70°C
 - 壳体材质：黄铜镀镍
 - 检测面：ABS
 - 泄漏等级：DIN EN 12266 A级
- Operating pressure 10-30V DC
 - Protection class: IP67
 - Detection distance 3mm ± 10% (Customization available)
 - Temperature range -25°C — +70°C
 - Enclosure material brass nickel plating
 - Probe material: ABS
 - Leakage class : DIN EN 12266 Class A

接近开关类型 Output Signal

角座阀配电磁阀
Angle Seat Valve
with Solenoid Valve

电磁阀附件 Solenoid Valve

适用于所有口径角座阀，可接2位5通或2位3通电磁阀。

Apply to angle seat valve with any aperture size. Connect to 5/2 or 3/2 way solenoid valve.

技术参数 Technical Specification

- 使用流体：空气 (经40微米滤芯过滤)
 - 防护等级：IP65
 - 接口：G1/8"
 - 使用电源：24V DC或220V AC
 - 使用压力：1.5-8 bar (22-116psi)
 - 环境温度：-5°C — +50°C
 - 泄漏等级：DIN EN 12266 A级
- Applicable Medium: Air (Filtered by 40 μm mesh)
 - Protection level : IP65
 - Connection type : G1/8"
 - Power: 24V DC or 220V AC
 - Air pressure: 1.5-8 bar (22-116psi)
 - Temperature range : -5°C — +50°C
 - Leakage class : DIN EN 12266 Class A

角座阀配手动操作行程限位
Angle Seat Valve
with Manual Override

手动操作行程限位附件 Manual Override

在气缸断气的状态下，可调节活塞开度，限制行程，从而调节阀门流量，适用于所有型号不锈钢气缸的角座阀，另外在无控制气源、机械（电磁）故障时还可用来紧急制动。

It can adjust piston position, restrict travel, and regulate flow. Applicable to all types of angle seat valves. It can be used for emergency control, in case of lack of control fluids or electrical/ mechanical failure.

技术参数 Technical Specification

- 手轮材质：压铸铝
 - 控制形式：单作用常闭
 - 泄漏等级：DIN EN 12266 A级
 - 适用范围：40/50/63/90缸
- Handwheel material: Die-casted Aluminum
 - Control type Single acting normally closed
 - Leakage class : DIN EN 12266 Class A
 - Suitable for 40/50/63/90mm actuator

角座阀配双位反馈器
Angle Seat Valve
with Position Indicator

双位反馈器附件 Position Indicator

适用于所有口径角座阀，用来检测阀门开关状态，反馈阀门启闭信号。

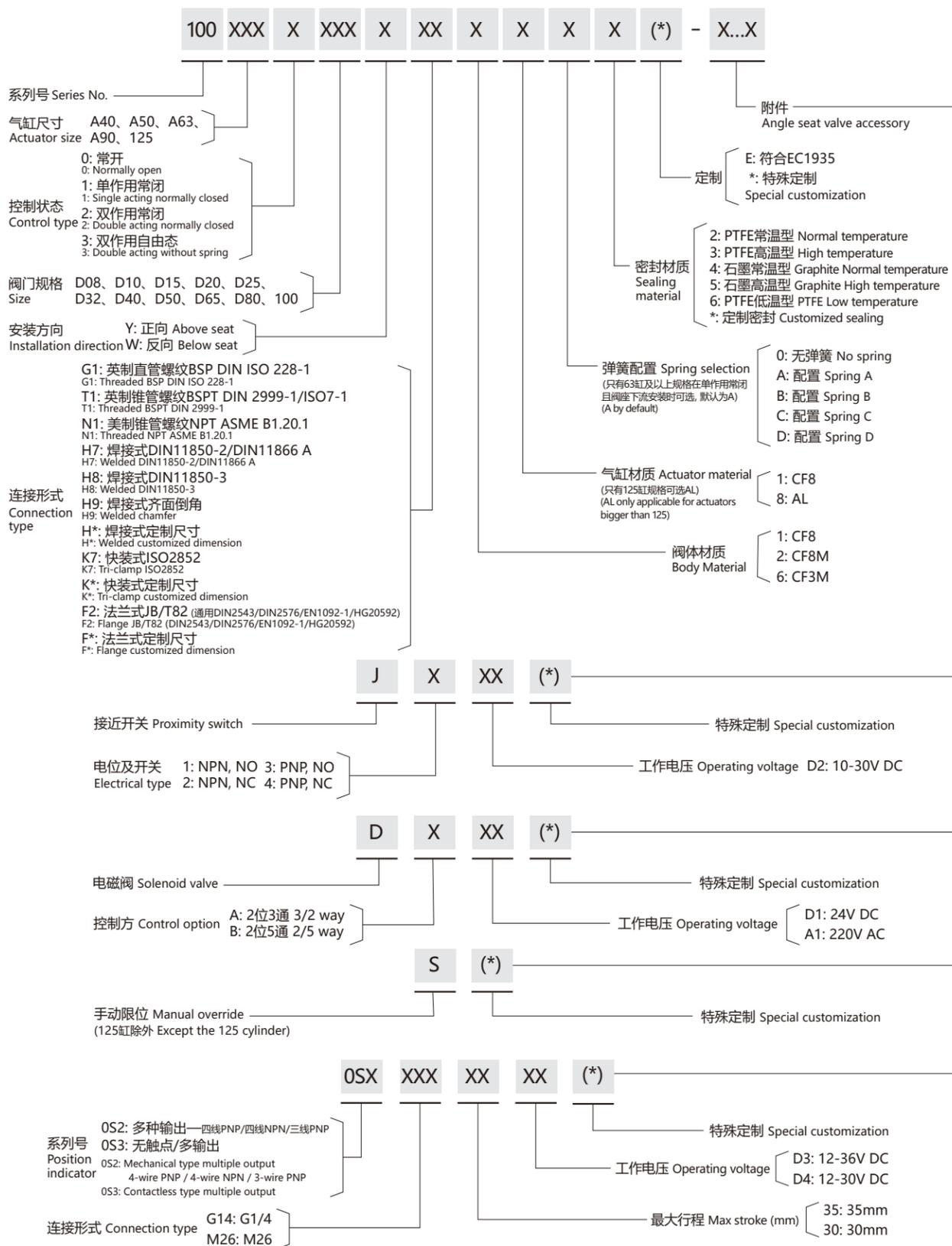
Position Indicator can be mounted on angle seat valves of all sizes to monitor and feedback both open and close states of the valve.

技术参数 Technical Specification

- 工作电压：DC12V~DC36V (机械式) / DC12V~DC30V (无触点式)
 - 工作电流：MAX.300mA (机械触点式) / MAX.100mA (无触点式)
 - 指示灯：直观反应阀门启闭状态
 - 环境温度：-10°C~+70°C
 - 环境湿度：≤90% RH
 - 防护等级：IP65
 - 防爆等级：Ex nA IIC T4
 - 壳体材质：PA6-GF30+PC
 - 开关方式：机械触点式 / 磁感无触点式
 - 输出模式：0S2-四线PNP/ 四线 NPN/ 三线 PNP/0S3 - 多输出 / 无触点
 - 电气原理：参照双位反馈器
 - 接线方法：旋开透明盖，将电缆从电缆口穿入，并连接到需求的端子上。
 - 泄漏等级：DIN EN 12266 A级 Class
- Operating voltage: DC12V~DC36V (mechanical type) / DC12V~DC30V (contactless type)
 - Operating current: MAX.300mA (mechanical type) / MAX.100mA (contactless type)
 - Indicator light: Visually feedbacks the valve's open/close status
 - Temperature range: -10°C~+70°C
 - Environment humidity: ≤90% RH
 - Protection level: IP65
 - Explosion-proof: Ex nA IIC T4
 - Shell material: PA6-GF30+PC
 - On-off mode: mechanical type / contactless type
 - Output mode: 0S2-4-wire PNP/4-wire NPN/3-wire PNP 0S3-Multiple output/contactless
 - Electrical principle: refer the position indicator
 - Wiring method: Unscrew the transparent cover, thread the cable through the cable opening and connect it to the required terminal.
 - Leakage class: DIN EN 12266 A Class

角座阀 Angle Seat Valve

订货说明 Order Instruction



比例调节角座阀 Proportional Control Angle Seat Valve

104系列分体式气控比例调节角座阀
104 Series Two-piece Pneumatic
Proportional Control Angle Seat Valve



技术参数

- 连接形式: 螺纹式、焊接式、快装式、法兰式
- 介质温度: -10°C — $+180^{\circ}\text{C}$ (PTFE常温型)
 $+25^{\circ}\text{C}$ — $+220^{\circ}\text{C}$ (PTFE高温型)
- 环境温度: 0°C — $+60^{\circ}\text{C}$
- 工作压力: 参见比例调节角座阀安装选型表
- 控制压力: 3—7bar (43.5-102psi)
- 工作电压: 24VDC \pm 10%
- 阀门设定信号: 0/4—20mA或0—5/10V
- 功耗: <4W
- 设定信号输入阻抗: 0/4—20mA信号时120 Ω ,
0—5/10V信号时40K Ω
- 模拟输出信号: 0/4—20mA时最大负载750 Ω ,
0—5/10V时最大电流20mA
- 开关量信号输出最大电流: 100mA
- 防护等级: IP65
- 防爆等级: II 3G Ex ec IIC T4 Gc
- 泄漏等级: DIN EN 12266 A级

特点

1. 调节方便, 操作简单;
2. 运行稳定;
3. 独特的调节锥设计, 建立了阀门开闭行程和流量的线性或等百分比的变化关系, 从而实现精确快速的流量调节功能;
4. 104/124分体式调节阀, 因将主体控制部分独立出来, 可安装在远端, 更能适应高温高湿等较恶劣的场所;
5. 稳定状态下无需消耗空气;
6. 可拓展为数字控制或过程控制功能。

Technical Specification

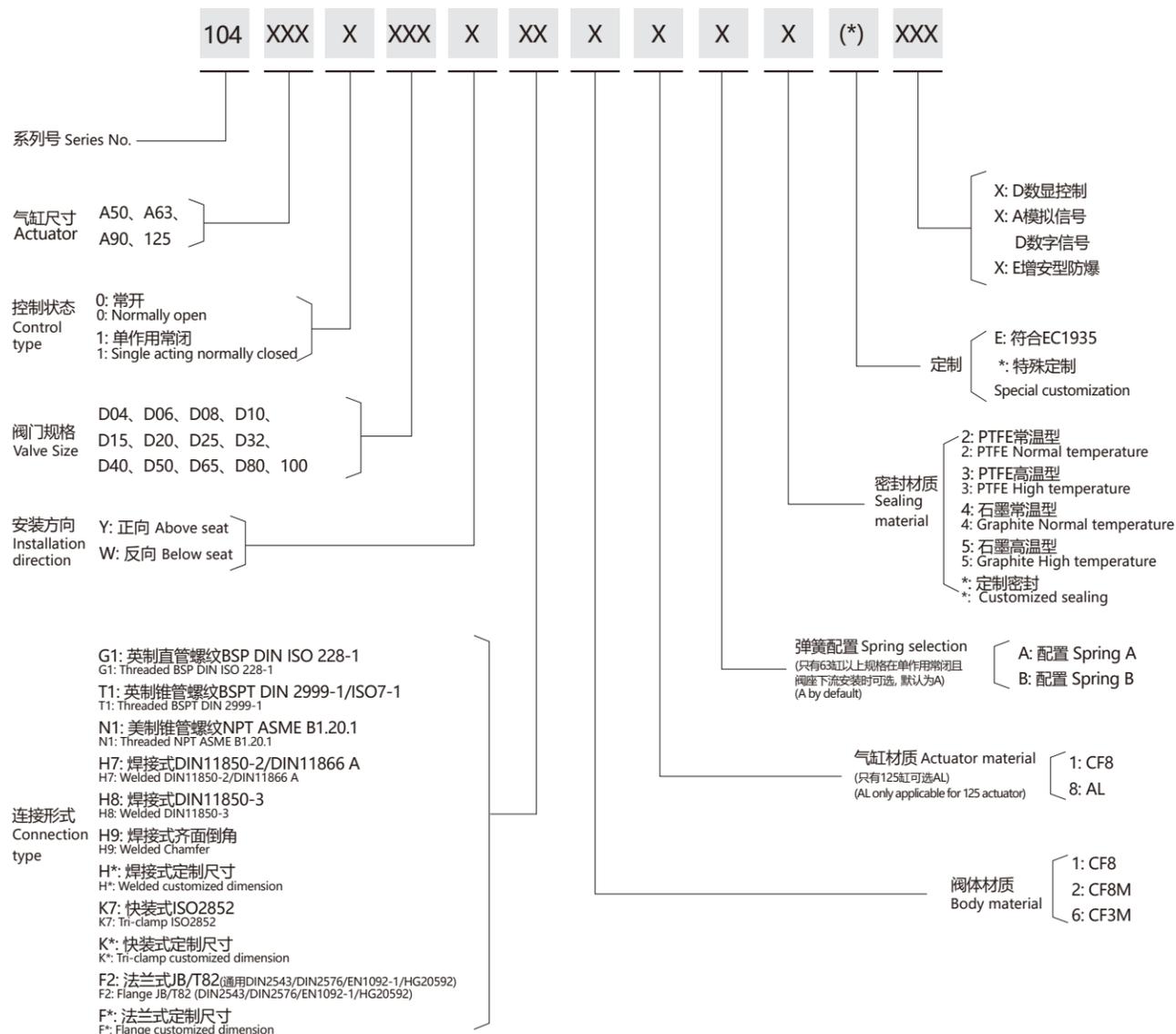
- Connection type: Threaded, Welded, Tri-clamp, Flange
- Medium temperature: -10°C — $+180^{\circ}\text{C}$
 $+25^{\circ}\text{C}$ — $+220^{\circ}\text{C}$
- Medium temperature: 0 — $+60^{\circ}\text{C}$
- Operating pressure: Refer to the selection table of proportional adjustment angle seat valve
- Control pressure: 3—7bar (43.5-102psi)
- Control power: 24VDC
- Valve set signal: 0/4—20mA or 0—5/10V
- Power consumption: <4W
- Input Signal Impedance: 120 Ω at 0/4—20mA,
40K Ω under 0—5/10V
- Simulated Output signal: Max load is 750 Ω at 0/4—20mA,
Max current is 20mA under 0—5/10V
- Protection: IP65
- Explosion-proof: II 3G Ex ec IIC T4 Gc
- Leakage class: DIN EN 12266 Class A

Advantages

1. Convenient to adjust and easy to operate.
2. Stable operation with vibration resistance.
3. The unique design of adjustable seat establishes a proportional linear relationship between open/close state of the valve with the flow rate, achieving precise flow adjustment.
4. For 104 and 124 series, the intelligent positioner and the valve are separate and can be installed at a distance, making it more suitable for high temperature and humidity environment.
5. No air consumption when in steady state.
6. Can be expanded to digital control or process control functions.

比例调节角座阀 Proportional Control Angle Seat Valve

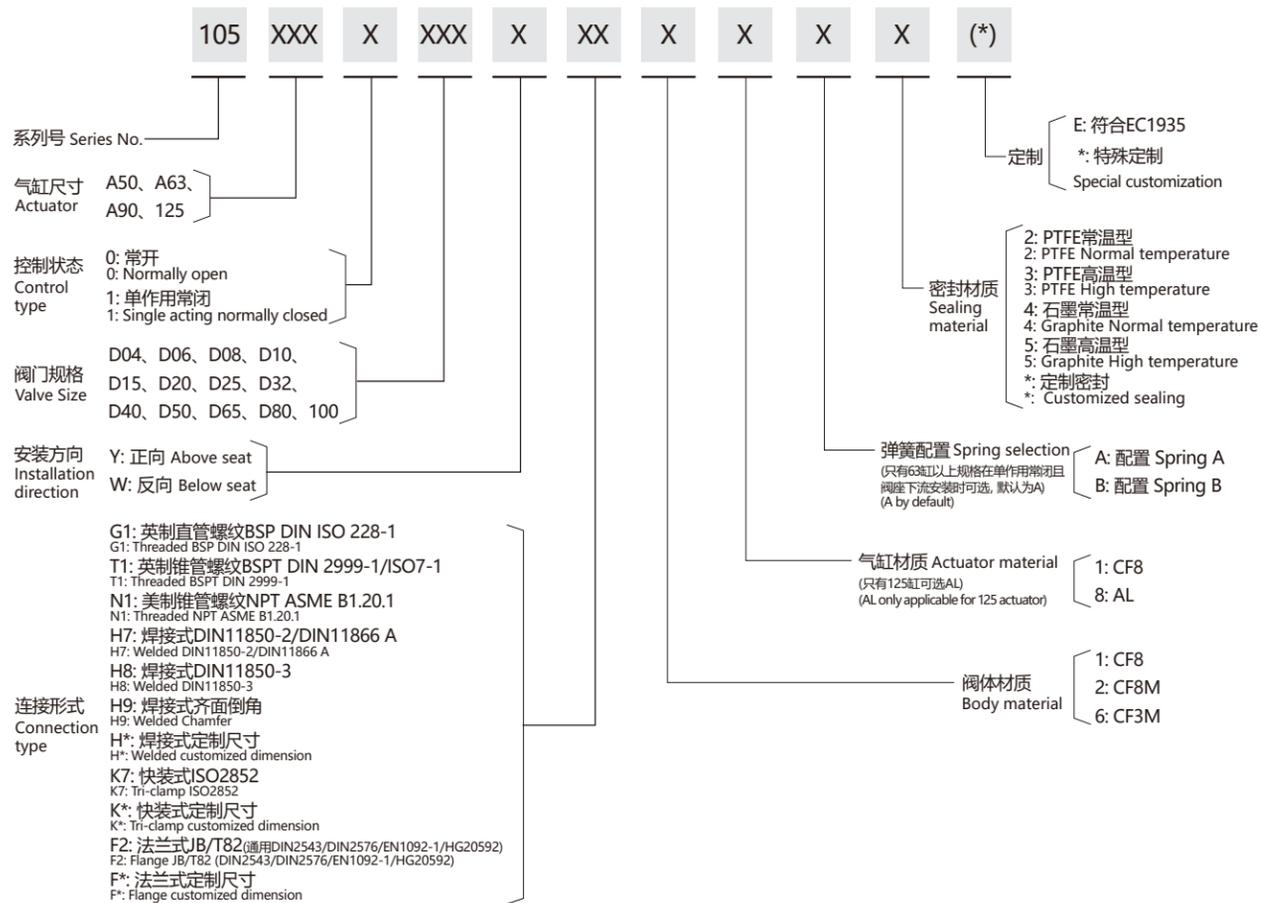
订货说明 Order Instruction



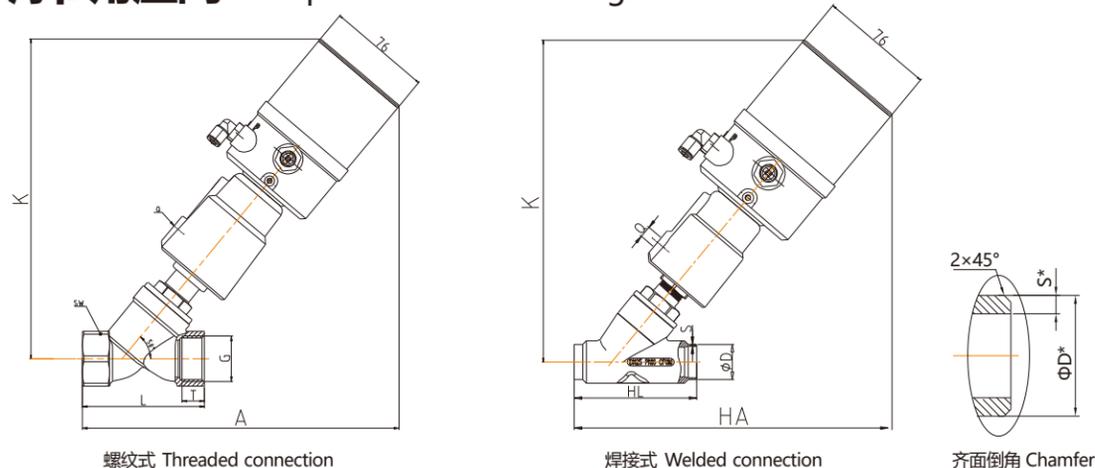
105系列气控比例调节角座阀 105 Series Pneumatic Proportional Control Angle Seat Valve



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比例调节角座阀 Proportional Control Angle Seat Valve



螺纹式 Threaded connection

焊接式 Welded connection

齐面倒角 Chamfer

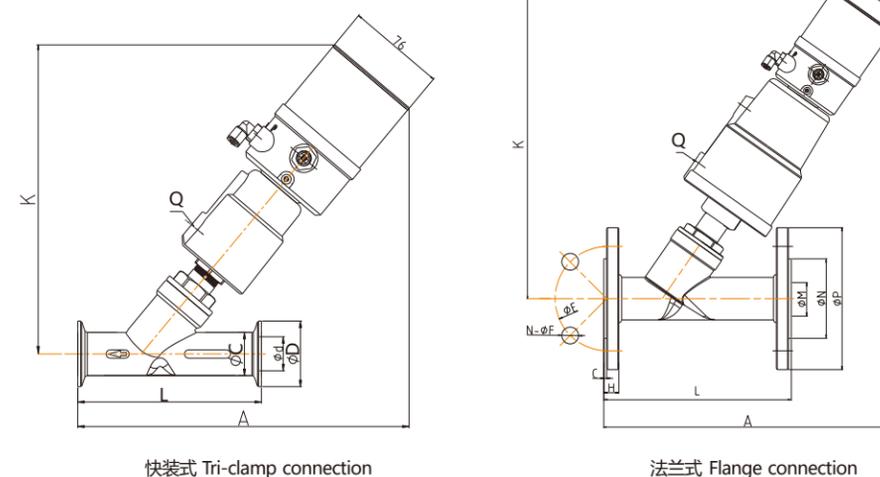
105系列螺纹式调节阀外形尺寸表 105 Series Main Dimension (Threaded Connection)

规格 Size	执行器 Actuator (mm)	Q	K	A	L	G	SW	T
DN4	50	1/8"	224	221	68	1/2" 3/8"	27	12
DN6	50	1/8"	224	221	68	1/2" 3/8"	27	12
DN8	50	1/8"	224	221	68	1/4"	27	12
	63	1/8"	237	233				
DN10	50	1/8"	224	221	68	3/8"	27	12
	63	1/8"	237	233				
DN15	50	1/8"	224	221	68	1/2"	27	15
	63	1/8"	237	233				
DN20	50	1/8"	231	226	75	3/4"	32	16
	63	1/8"	244	237				
DN25	50	1/8"	235	236	90	1"	40	17
	63	1/8"	257	253				
DN32	63	1/8"	269	271	116	1 1/4"	50	21
	90	1/8"	319	301				
DN40	90	1/8"	319	301	116	1 1/2"	56	21
	125AL	1/4"	386	359				
DN50	90	1/8"	328	316	138	2"	69	22
	125AL	1/4"	416	374				
DN65方口 Square bonnet	125AL	1/4"	416	374	178	2 1/2"	85	26
DN80方口 Square bonnet	125AL	1/4"	441	394	210	3"	100	27

105系列焊接式调节阀外形尺寸表 105 Series Main Dimension (Welded Connection)

规格 Size	执行器 Actuator (mm)	Q	K	HA	HL	齐面倒角 Chamfer		DIN11850-2		DIN11850-3	
						ΦD*	S*	ΦD	S	ΦD	S
DN15	50	1/8"	224	214	70	22	3.5	19	1.5	20	2
	63	1/8"	237	226							
DN20	50	1/8"	231	221	82	29	5	23	1.5	24	2
	63	1/8"	244	232							
DN25	50	1/8"	235	236	100	35	5	29	1.5	30	2
	63	1/8"	257	256							
DN32	63	1/8"	269	267	125	39	4	35	1.5	36	2
	90	1/8"	319	298							
DN40	90	1/8"	319	301	130	45	4.5	41	1.5	42	2
	125AL	1/4"	386	361							
DN50	90	1/8"	318	316	155	57	4	53	1.5	54	2
	125AL	1/4"	416	374							
DN65方口 Square bonnet	125AL	1/4"	416	374	270	75	5	70	2	—	—
DN80方口 Square bonnet	125AL	1/4"	441	414	284	90	5.5	85	2	—	—

注: *标识的尺寸为毛坯设计尺寸 (实际尺寸可能有偏差, 仅供参考) Note: * Designates design dimension (the actual dimension may vary)



快装式 Tri-clamp connection

法兰式 Flange connection

105系列快装式调节阀外形尺寸表 105 Series Main Dimension (Tri-clamp Connection)

规格 Size	执行器 Actuator (mm)	Q	K	A	L	ΦC	ΦD	Φd
DN15	50	1/8"	221	221	80	20.5	34	15
DN20	50	1/8"	243	239	130	25	50.5	19
	63	1/8"	258	256				
DN25	50	1/8"	239	251	130	33	50.5	27
	63	1/8"	261	269				
DN32	63	1/8"	269	281	146	37	50.5	31
	90	1/8"	319	311				
DN40	90	1/8"	319	321	160	40	64	34
	125AL	1/4"	382	379				
DN50	90	1/8"	331	331	175	53	64	45
	125AL	1/4"	416	414				
DN65方口 Square bonnet	125AL	1/4"	416	414	278	75	91	65
DN80方口 Square bonnet	125AL	1/4"	438	414	290	89.5	106	78.5

105系列法兰式调节阀外形尺寸表 105 Series Main Dimension (Flange Connection)

规格 Size	执行器 Actuator (mm)	Q	K	A	L	ΦP	ΦN	ΦM	H	C	ΦE	n-ΦF
DN15	50	1/8"	237	232	130	95	45	16	14	2	65	4-14
DN20	50	1/8"	237	252	150	105	56	19	14	2	75	4-14
	63	1/8"	267	257								
DN25	50	1/8"	267	272	160	115	65	26	14	2	85	4-14
	63	1/8"	268	272								
DN32	63	1/8"	281	272	180	140	78	31	16	2	100	4-18
	90	1/8"	329	297								
DN40	90	1/8"	334	317	200	150	84	38	16	3	110	4-18
	125AL	1/4"	394	385								
DN50	90	1/8"	339	344	230	165	100	54	16	3	125	4-18
	125AL	1/4"	416	414								
DN65方口 Square bonnet	125AL	1/4"	414	430	290	185	120	71	18	3	145	4-18
DN80方口 Square bonnet	125AL	1/4"	439	435	310	200	135	84	20	3	160	8-18
DN100方口 Square bonnet	125AL	1/4"	467	482	350	215	155	96	20	3	180	8-18

比例调节角座阀 Proportional Control Angle Seat Valve

快装、螺纹、焊接调节式角座阀开度 %-Kv 值 (m³/h) 对照表

Opening (%) - Kv value (m³/h) chart of Tri-clamp, threaded and welded proportional angle seat valve

Size 规格	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
DN4-50mm	0.01	0.02	0.04	0.07	0.11	0.14	0.19	0.26	0.35	0.43	0.52
DN6-50mm	0.03	0.04	0.08	0.14	0.22	0.33	0.43	0.57	0.75	0.93	1.1
DN8-50mm	0.29	0.45	0.76	1.11	1.50	1.86	2.16	2.20	2.20	2.20	2.2
DN10-50mm	0.29	0.45	0.76	1.11	1.50	1.86	2.16	2.47	2.70	2.92	3.1
DN15-50mm	0.29	0.45	0.76	1.11	1.50	1.86	2.16	2.47	2.70	2.92	3.1
DN20-50mm	0.85	1.22	2.04	2.82	3.60	4.26	4.62	5.00	5.42	5.84	6.2
DN25-50mm	0.76	1.06	2.28	3.71	4.87	5.96	7.07	8.12	9.04	9.60	10.1
DN25-63mm	0.49	1.26	2.45	3.63	4.96	6.11	7.22	8.25	9.02	9.82	10.8
DN32-63mm	1.74	2.85	5.43	8.09	10.51	12.84	14.81	15.78	16.89	18.03	19.2
DN40-63mm	3.0	4.8	8.5	12.2	15.4	18.7	20.3	21.4	22.6	23.9	25.0
DN40-90mm	2.7	4.4	7.6	10.7	13.6	16.3	17.7	18.8	20.0	21.1	22.4
DN50-90mm	4.1	7.3	14.4	21.0	27.0	31.4	34.3	36.3	38.0	39.5	41.1
DN50-125mm	4.7	8.7	16.9	24.4	31.1	34.4	36.6	37.7	39.7	41.9	44.6
DN65-125mm	7.5	9.5	15.9	25.1	33.9	41.7	48.6	54.4	59.4	63.7	68.7
DN80-125mm	11.4	13.5	17.4	20.2	24.3	30.3	39.4	50.6	62.9	74.1	84.4

法兰调节式角座阀开度 %-Kv 值 (m³/h) 对照表

Opening (%) - Kv value (m³/h) chart of Flanged proportional angle seat valve

Size 规格	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
DN15-50mm	0.30	0.44	0.79	1.16	1.57	1.94	2.24	2.49	2.66	2.87	3.1
DN20-50mm	0.88	1.28	2.11	2.87	3.54	4.20	4.61	4.98	5.24	5.56	5.9
DN25-50mm	0.89	1.28	2.47	3.81	4.95	5.93	6.87	7.62	8.16	8.58	9.2
DN25-63mm	0.70	1.38	2.62	4.03	5.26	6.34	7.26	7.87	8.51	9.27	10.1
DN32-63mm	1.83	3.04	5.54	8.02	10.04	11.94	12.74	13.79	15.19	16.36	17.2
DN40-63mm	3.0	4.8	8.6	12.2	15.6	17.7	18.9	19.6	20.9	22.2	23.6
DN40-90mm	2.8	4.5	7.7	10.9	14.1	16.7	18.1	19.1	20.3	21.4	22.9
DN50-90mm	4.4	7.7	14.9	21.0	27.0	30.8	33.4	35.6	37.2	38.5	40.2
DN50-125mm	5.2	9.4	18.0	25.8	30.6	34.4	36.6	38.8	40.3	42.5	45.3
DN65-125mm	7.6	9.2	15.3	25.1	32.8	40.6	48.1	53.9	59.4	63.9	68.4
DN80-125mm	10.9	13.0	17.3	20.6	25.0	31.1	41.3	51.3	63.8	74.4	84.7
DN100-125mm	10.8	11.6	14.4	26.6	39.1	51.8	64.5	77.0	89.4	101.5	113.0