

**FITO** 飞拓自动化  
FITO AUTOMATION



2022 产品选型手册

**FITO Automation**  
Technology



**FITO**

温州飞拓自动化科技有限公司  
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温州飞拓自动化科技有限公司  
WENZHOU FITO AUTOMATION TECHNOLOGY CO., LTD.



## 关于我们 About us

温州飞拓自动化科技有限公司成立于2013年，专业从事气动元件产品研发、生产、销售，代理销售德国西门子，德柯斯TUNKERS、SMC等进口品牌。公司位于中国“电器之都”美誉的柳市，距离美丽的中雁荡山风景区只有5公里，交通便利（104国道边），物流发达（相隔蟾东物流园）。本公司涉足于新能源汽车智能制造行业10余年，自2018年自主研发焊接夹紧缸系列产品，应用于汽车焊接工装与流水线，主要项目对象包括比亚迪、广州埃安、吉利、广汽、一汽大众等知名品牌的生产项目，同时也从2015年开始推广海外市场，产品销往巴西、俄罗斯、美国、印尼、埃及等国家，我公司一直以专注自己的优势产品、不断开发行业的新产品，为全球汽车工业自动化事业贡献微薄之力。

Wenzhou Feituo Automation Technology Co., Ltd. was established in 2013, specializing in the research, development, production and sales of pneumatic products, as well as dealing the famous brands such as Siemens, TUNKERS, and SMC.

The company is located in Liushi City, which is known as the "City of Electrical Appliances" in China. It is only 5 kilometers away from the beautiful Zhongyandang Mountain, has very with convenient transportation (beside the 104 National Highway) and developed logistics (across from Chandong Logistics Park).

The company has been involved in the intelligent manufacturing industry of new energy vehicles for more than 10 years. Since 2018, it has independently developed a series of welding clamping cylinder products, which are used in automobile welding tooling and assembly lines. The main projects include BYD, Guangzhou Aian, Geely, GAC, FAW-Volkswagen, etc. Meanwhile, we also started to explore overseas markets since 2015. The products are sold to Brazil, Russia, the United States, Indonesia, Egypt and other countries. Our company has been focusing on its own superior products and constantly developing new products in the industry to serve the world



▲ 产品应用领域 Product Application Areas

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DMCA/DMCH Powerful clamping cylinder



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DMCA40 Powerful clamping cylinder



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**DMCA50/63/80强力夹紧气缸**  
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**DMCH40带手动功能系列强力夹紧气缸**  
DMCH40 With manual function series powerful clamping cylinder



007

**DMCH50/63/80带手动功能系列强力夹紧气缸**  
DMCH50/63/80 With manual function series powerful clamping cylinder



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DNC Series ISO6431 Standard Cylinder



013

**SDNC系列不锈钢ISO6431标准气缸**  
SDNC Stainless steel series ISO 6431 Standard Cylinder



015

**SI系列ISO6431标准气缸**  
SI Series ISO6431 Standard Cylinder



019

**SC/SU系列标准气缸**  
SC/SU Series Standard Cylinder



025

**MB系列标准气缸(符合日本标准)**  
MB Series Standard Cylinder (Japanese Standard)



031

**SCT系列多位置气缸**  
SCT Series Multi-position Cylinder



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飞拓自动化

## A 执行元件

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AF/BF Series Filter



120

**AR/BR系列调压阀**  
AR/BR Series Regulator



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**AL/BL系列油雾器**  
AL/BL Series Lubricator



122

**AFR/BFR系列过滤调压阀**  
AFR/BFR Series Regulator



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**AC系列空气过滤组合(三联件)**  
AC Series Air Filter Combination (F.R.L Combination)



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**AC系列空气过滤组合(二联件)**  
AC Series Air Filter Combination (F.R.L Combination)



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C  
气源处理

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**4A200-L系列气控阀**  
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**4A300-L系列气控阀**  
4A300-L Series Pneumatic Control Valve



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**4A400-L系列气控阀**  
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**2V系列二位二通电磁阀**  
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D  
控制元件

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**ST系列梭阀**  
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**HSV系列管道排气阀**  
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**MSV系列机械阀**  
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**JM系列机械阀**  
JM Series Mechanical Valve



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**MOV系列机械阀**  
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**XQ系列机控/手控阀**  
XQ Series Machine-Control, Hand-Control Valve



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## DMCA/DMCH强力夹紧气缸 DMCA/DMCH Powerful clamping cylinder

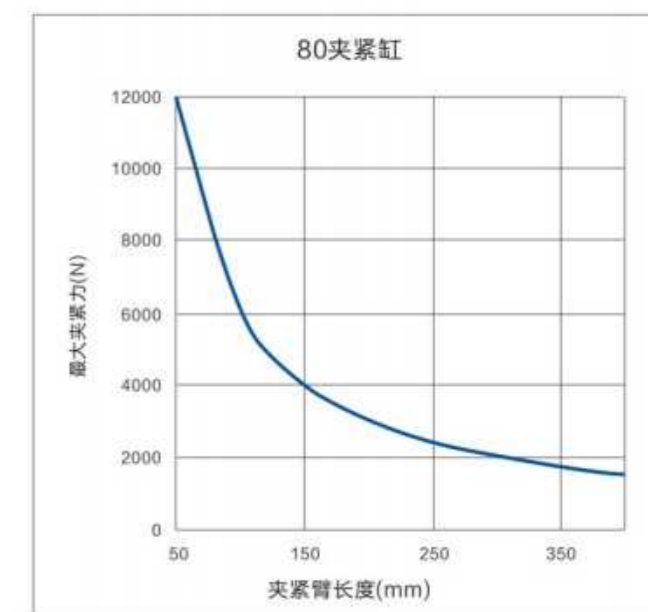
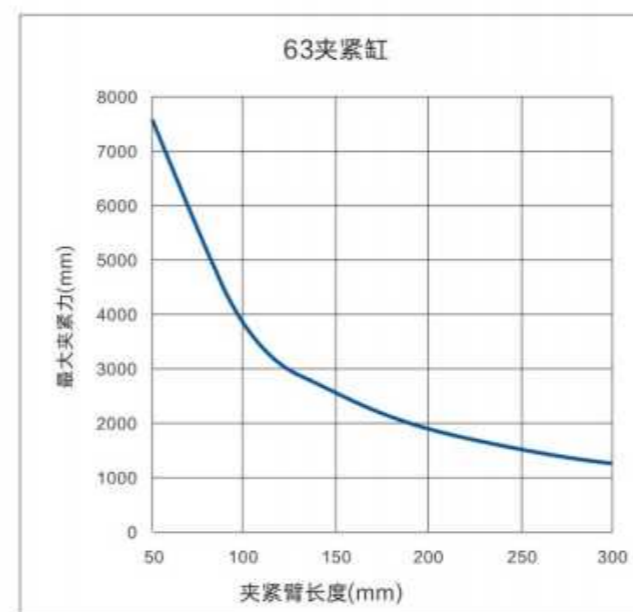
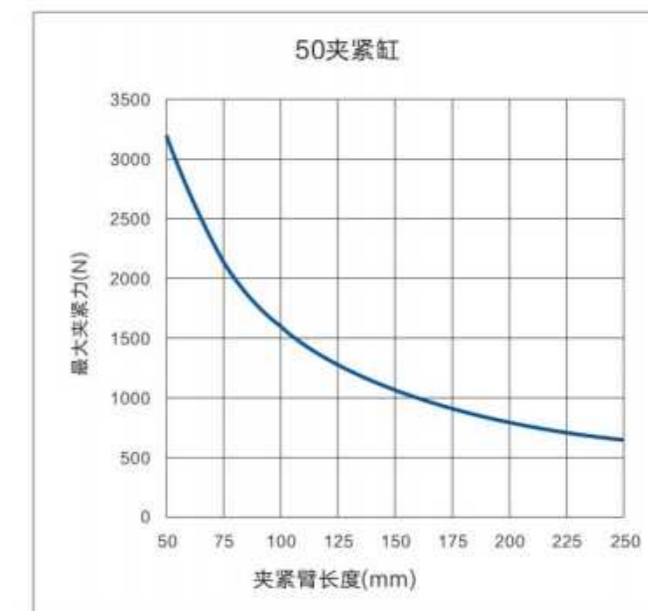
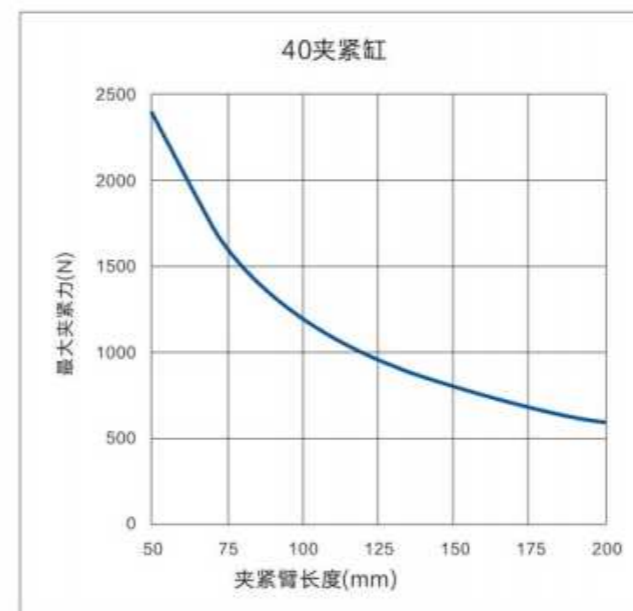
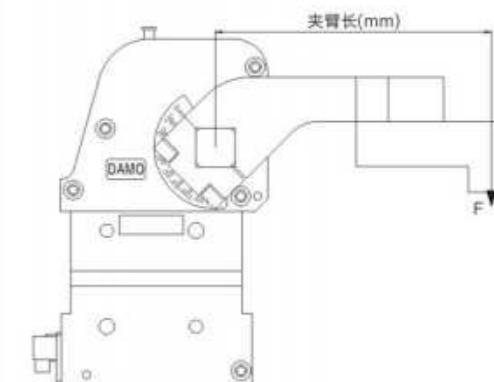


### ● 夹紧气缸性能参数 Clamping cylinder performance parameters

#### ● 最大夹紧力与夹臂长度关系曲线

缸径	5bar气压时夹紧力矩
40	120Nm
50	160Nm
63	380Nm
80	600Nm

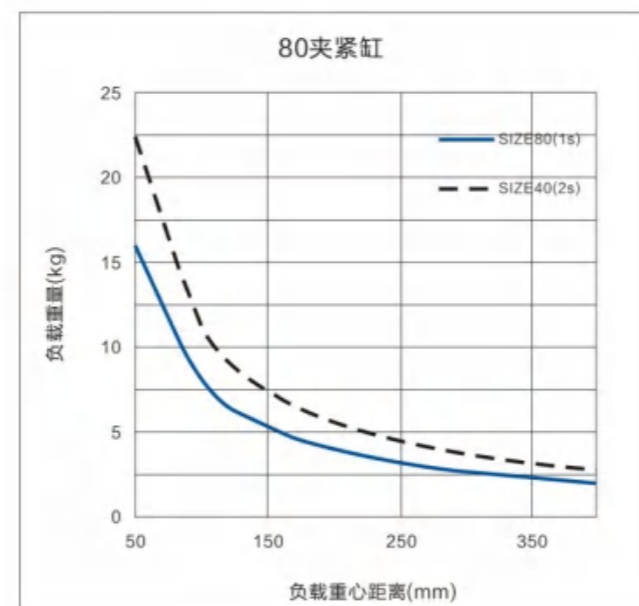
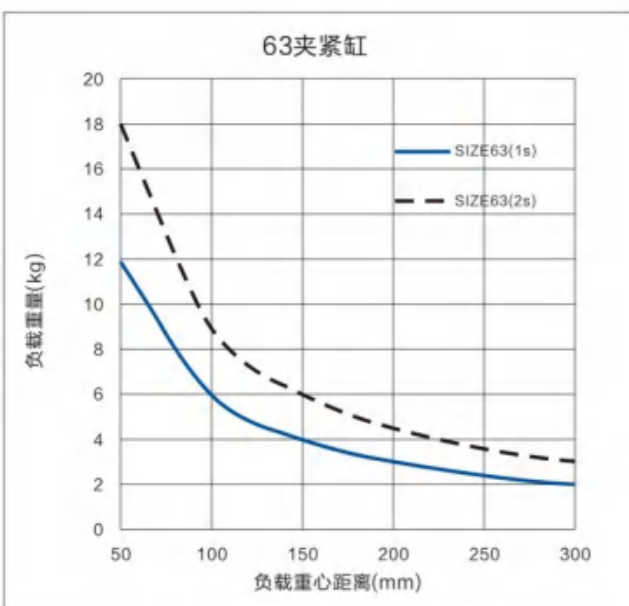
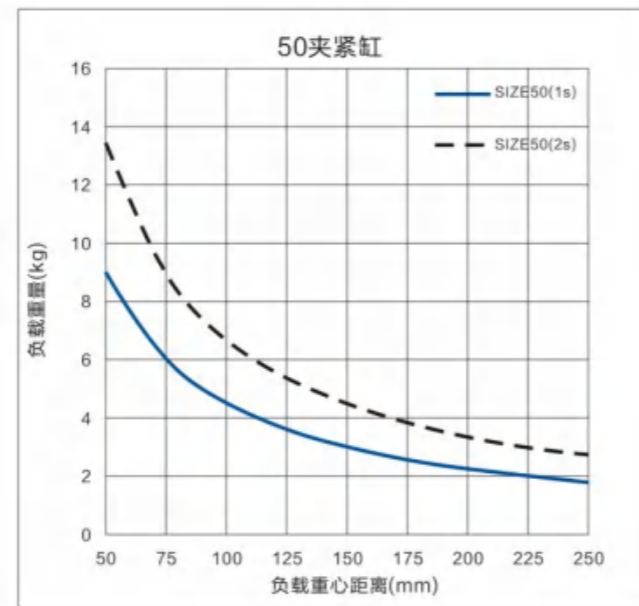
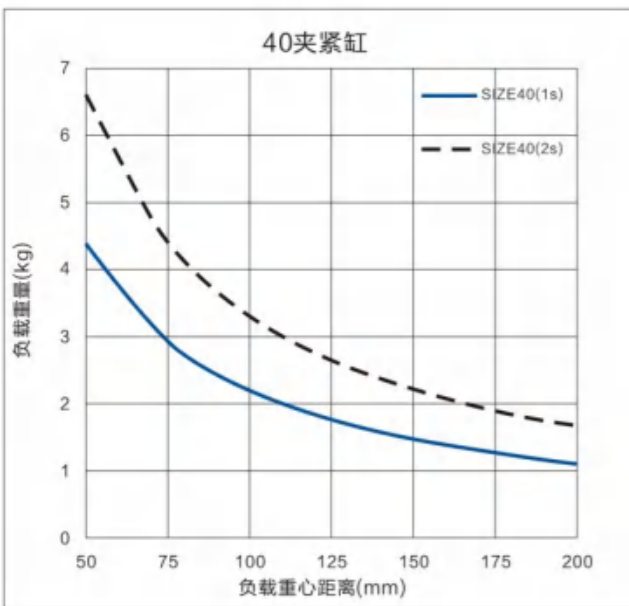
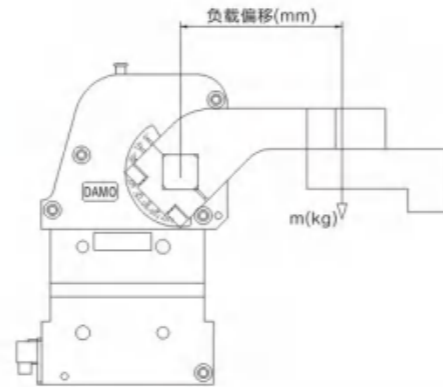
由于连杆机构原理，最大夹紧力指在最终夹紧位置的最大值



### ● 夹紧气缸性能参数 Clamping cylinder performance parameters

#### ● 许用负载与夹臂重心距离关系曲线

缸径	最大许用负载扭矩	
	1s一个循环	2s一个循环
40	2.2Nm	3.3Nm
50	4.5Nm	6.7Nm
63	6.0Nm	9.0Nm
80	8.0Nm	11.2Nm



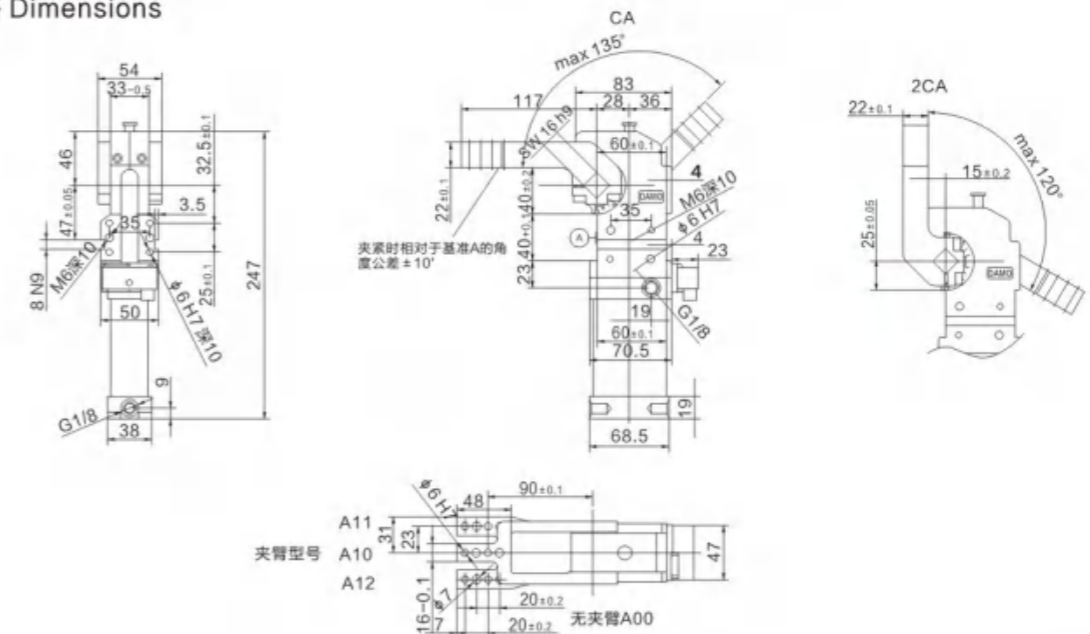
- 曲柄连杆机构的一体式夹器，过死点自锁功能
- 最大打开角度5° 到135° 范围内无级可调
- 高强度铝合金封闭壳体
- 尺寸为50, 60, 80的扁平椭圆气缸
- 带标准安装孔的夹臂
- 四面可安装
- 可选项：

可防焊渣的内置电感式位置传感器SE  
可防焊渣的内置气动式位置传感器SP

#### ● 订购指南 Order guide

DM2CA 40 A12 SE 90°					
DM	2CA	40	A12	SE	90°
名称	产品型号 CA水平位置夹紧缸	气缸缸径 40椭圆形缸筒	夹臂类型 A10/11/12 A50/51/52	传感器类型 SN无传感器 SE电感传感器 SP气动传感器	打开角度 Max.135° Max.120° 垂直A10/11/12/50/51/52 Max.105° 水平A50/51/52
	2CA垂直位置夹紧缸				

#### ● 尺寸规格 Dimensions





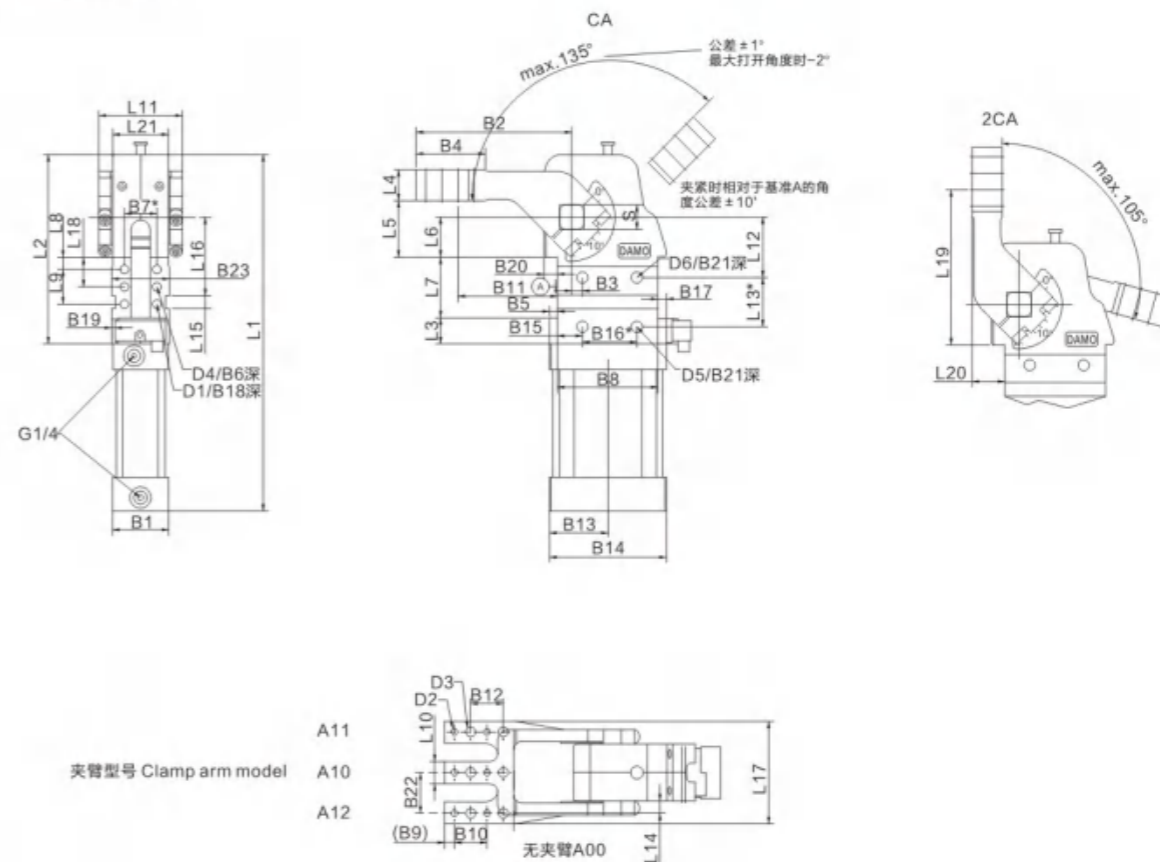
- 曲柄连杆机构的一体式夹紧器，过死点自锁功能
- 最大打开角度5° 到135° 范围内无级可调
- 高强度铝合金封闭壳体
- 尺寸为50, 60, 80的扁平椭圆气缸
- 带标准安装孔的夹臂
- 四面可安装
- 可选项：

可防焊渣的内置电感式位置传感器SE  
可防焊渣的内置气动式位置传感器SP

### ● 订购指南 Order guide

DMCA 63 A10 SE 120°						
DM	CA	63	A10	SE	120°	
名称	产品型号	气缸缸径	夹臂类型	传感器类型	打开角度	
	CA水平位置夹紧缸	50椭圆形缸筒	A10/11/12	SN无传感器	Max.135° 水平位置	
		63椭圆形缸筒	A40/41/42	SE电感传感器	Max.105° 垂直位置	
		80椭圆形缸筒	A90/91/92	SP气动传感器		
	2CA垂直位置夹紧缸					

### ● 尺寸规格 Dimensions



型号	B1	B2	B3 ± 0.05	B4	B5	B6	B7*	B8 ± 0.05	B9	B10 ± 0.05	B11 ± 0.1	B12 ± 0.1	B13	B14	B15 ± 0.1	B16*	B17	B18
DMCA 50	□	144	10	64	6	10	30	93	9	30	92	30	47	94	23	50	7.5	10
DMCA 63	□	144	10	64	7.5	10	30	93	9	30	92	30	54	108	23	50	7.5	10
DMCA 80	□	179	15	64	8	12	50	134	9	30	119	30	69	138	36	70	8	15

型号	B19	B20	B21	B22 ± 0.1	B23 ± 0.1	D1	D2 H7	D3	D4 H7	D5 H7	D6	L1	L2	L3	L4 ± 0.1	L5 ± 0.2	L6 ± 0.05	L7 + 0.1
DMCA 50	3.5	9.5	10	34	□	M8	6	9	8	10	M10	312	166	24	28	51.5	36.5	55
DMCA 63	3.5	12.5	10	37	□	M8	6	9	8	10	M10	325	173	24	28	51.5	36.5	55
DMCA 80	3.5	20	13	50.5	□	M10	6	9	8	12	M12	490	270	55	35	70	50	80

型号	L8 ± 0.1	L9 ± 0.1	L10	L11	L12 ± 0.05	L13*	L14 ± 0.1	L15 N9	L16 ± 0.05	L17	L18 ± 0.05	L19 ± 0.1	L20 ± 0.2	L21	S h9
DMCA 50	11	32	20	68	55	45	11.5	12	71.5	88	27	141.5	30	45	19
DMCA 63	11	32	20	78	55	45	13	12	71.5	94	27	141.5	30	52	22
DMCA 80	15	50	25	108	65	75	17	12	96.5	126	40	190	34	74	30

## DMCH40带手动功能系列强力夹紧气缸 DMCH40 With manual function series powerful clamping cylinder

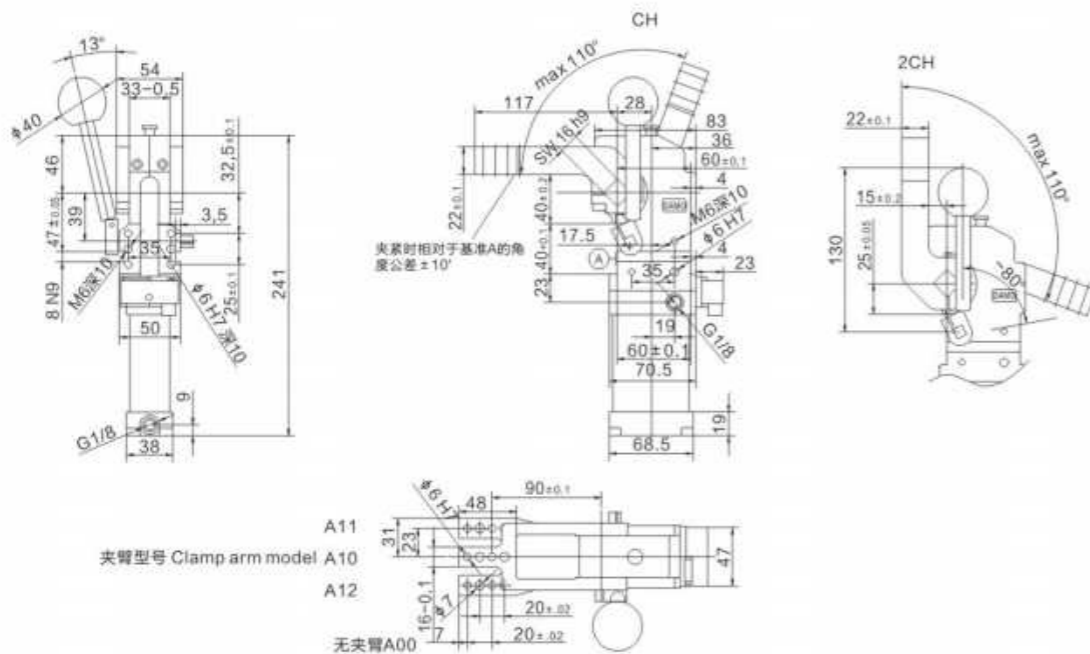


- 曲柄连杆机构的紧凑型夹紧器，带自锁机构
- 最大打开角度在30到110°范围内的无级可调
- 高强度铝合金外壳，40mm缸筒
- 手动夹紧打开功能
- 带标准安装孔的夹紧臂
- 三面可安装。
- 可选项：

可防焊渣的内置电感式位置传感器SE  
可防焊渣的内置气动式位置传感器SP

### ● 订购指南 Order guide

DM2CH 40 A50 SE 60°					
DM	2CH	40	A50	SE	60°
名称 DM达满	产品型号 CH水平位置带手动功能夹紧缸  2CH垂直位置带手动功能夹紧缸 	气缸缸径 40椭圆形缸筒	夹臂类型 A10/11/12 A50/51/52	传感器类型 SN无传感器 SE电感传感器 SP气动传感器	打开角度 Min.30° Max.110°



## DMCH50/63/80带手动功能系列强力夹紧气缸 DMCH50/63/80 With manual function series powerful clamping cylinder



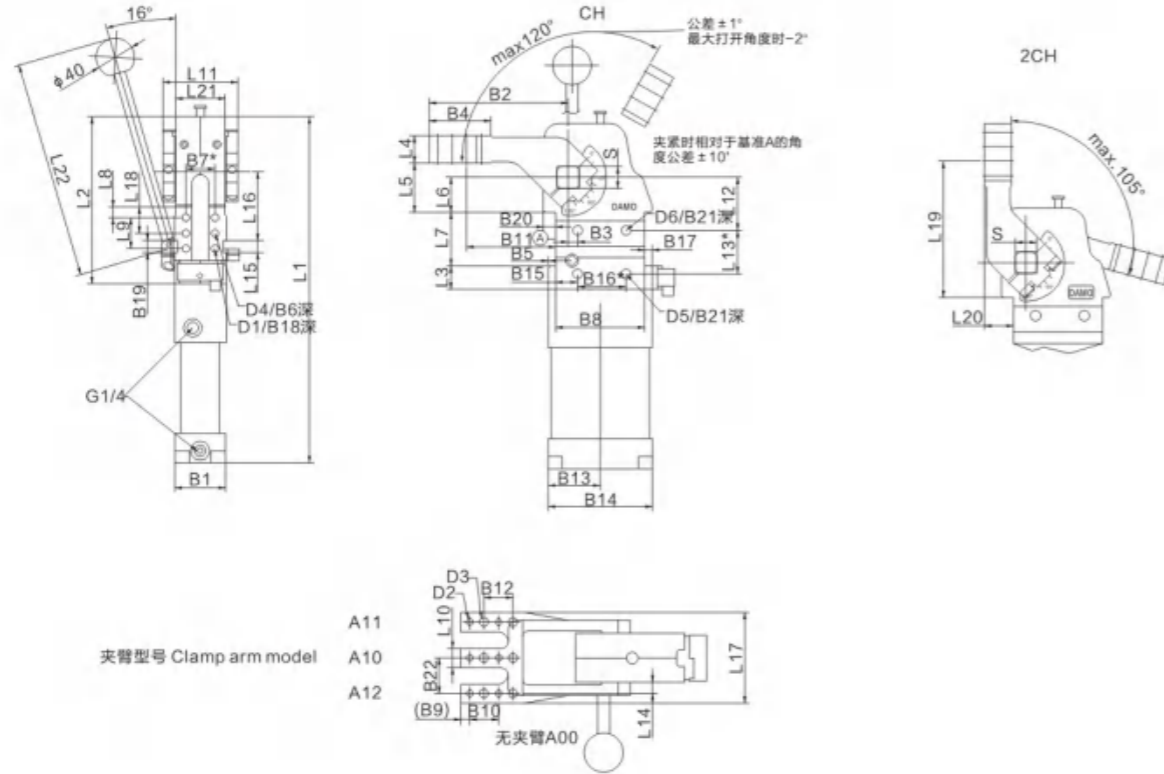
- 曲柄连杆机构的一体式夹紧器，过死点自锁功能
- 最大打开角度5°到110°范围内无级可调
- 手动打开夹紧功能
- 高强度铝合金封闭壳体
- 尺寸为50, 60, 80的扁平椭圆气缸
- 带标准安装孔的夹臂
- 三面可安装
- 可选项：

可防焊渣的内置电感式位置传感器SE  
可防焊渣的内置气动式位置传感器SP

### ● 订购指南 Order guide

DMCH 50 A40 SE 60°					
DM	CH	50	A50	SE	60°
名称 DM达满	产品型号 CH水平位置带手动功能夹紧缸  2CH垂直位置带手动功能夹紧缸 	气缸缸径 50椭圆形缸筒 63椭圆形缸筒 80椭圆形缸筒	夹臂类型 A10/11/12 A40/41/42 A90/91/92	传感器类型 SN无传感器 SE电感传感器 SP气动传感器	打开角度 Max.120° 水平位置 Max.105° 垂直位置

● 尺寸规格 Dimensions



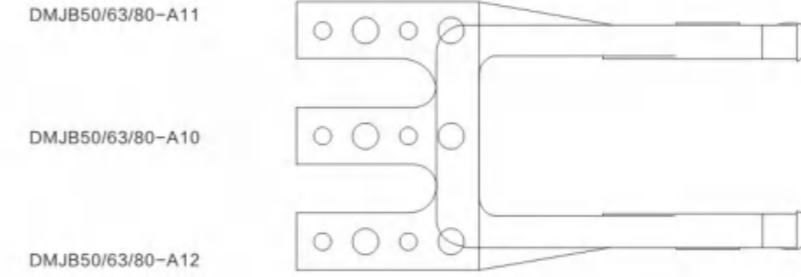
型号	B1	B2	B3 ± 0.05	B4	B5	B6	B7*	B8 ± 0.05	B9	B10 ± 0.05	B11 ± 0.1	B12 ± 0.1	B13	B14	B15 ± 0.1	B16*	B17	B18
DMCH 50	□	144	10	65	6	10	30	93	9	30	92	30	47	94	23	50	7.5	10
DMCH 63	□	144	10	65	7.5	10	30	93	9	30	92	30	54	108	23	50	7.5	10
DMCH 80	□	179	15	65	8	12	50	134	9	30	119	30	69	138	36	70	8	15

型号	B19	B20	B21	B22 ± 0.1	D1	D2 H7	D3	D4 H7	D5 H9	D6	L1	L2	L3	L4 ± 0.1	L5 ± 0.2	L6 ± 0.05	L7 ± 0.1	L8 ± 0.1
DMCH 50	3.5	9.5	10	34	M8	6	9	8	10	M10	317	166	24	28	51.5	36.5	55	11
DMCH 63	3.5	12.5	10	37	M8	6	9	8	10	M10	358	173	24	28	51.5	36.5	55	11
DMCH 80	3.5	20	13	50.5	M10	6	9	8	12	M12	496	270	55	35	70	50	80	15

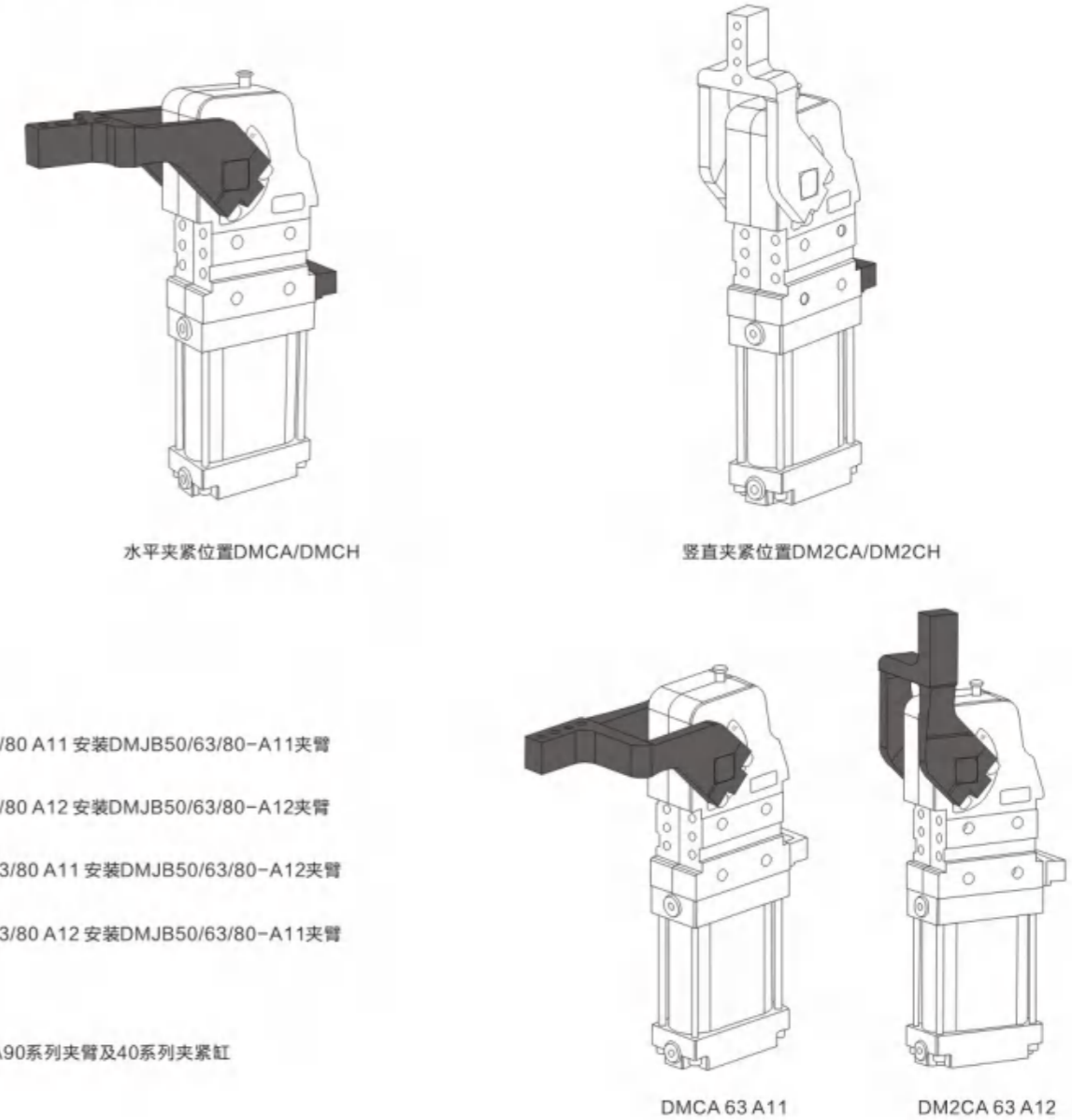
型号	L9 ± 0.1	L10	L11	L12 ± 0.05	L13*	L14 ± 0.1	L15 N9	L16 ± 0.05	L17	L18 ± 0.05	L19 ± 0.1	L20 ± 0.2	L21	S H9
DMCH 50	32	20	68	55	45	11.5	12	71.5	88	27	141.5	30	45	19
DMCH 63	32	20	78	55	45	13	12	71.5	94	27	141.5	30	52	22
DMCH 80	50	25	108	65	75	17	12	96.5	126	40	190	34	74	30

● 强力夹紧气缸夹臂  
Powerful clamping of the cylinder clamp arm

● 夹臂型号 Clamp arm model



● 夹臂位置 Clamp arm position



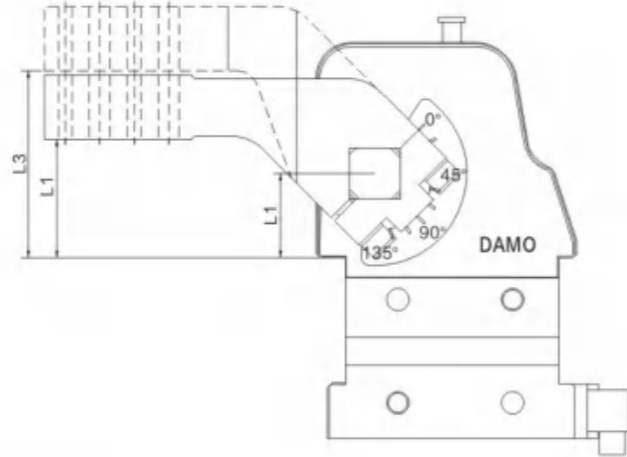
同样适用于A40, A90系列夹臂及40系列夹紧缸

● 强力夹紧气缸夹臂  
Powerful clamping of the cylinder clamp arm

● 夹臂尺寸 Clamp arm size

A40/A41/A42/A43/A44/A45

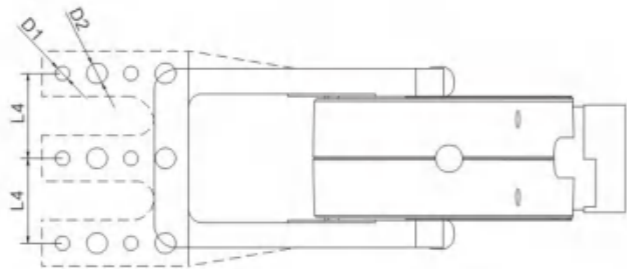
A10/A11/A12/A90/A91/A92



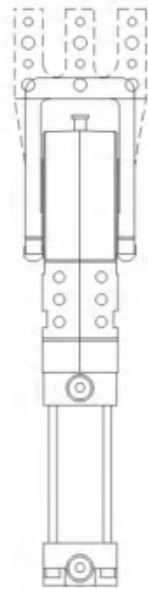
A11/A91/A41/A44

A10/A90/A40/A43

A12/A92/A42/A45



A12 A10 A11  
A92 A90 A91  
A42 A40 A41  
A45 A43 A44



A40 A10  
A41 A11  
A42 A12  
A43 A90  
A44 A91  
A45 A92



● 强力夹紧气缸夹臂  
Powerful clamping of the cylinder clamp arm

夹臂 \ 夹紧器	50								
	L1±0.05	L2±0.2	L3±0.2	L4±0.1	L5±0.1	B1±0.2	B2±0.2	D1(H7)	D2
A10	36.5	51.5	-	-	141.5	-	30	6	9
A11	36.5	51.5	-	34	141.5	-	30	6	9
A12	36.5	51.5	-	34	141.5	-	30	6	9
A90	36.5	51.5	-	-	141.5	-	30	8	10.2
A91	36.5	51.5	-	34	141.5	-	30	8	10.2
A92	36.5	51.5	-	34	141.5	-	30	8	10.2
A40	36.5	-	81.5	-	141.5	60	-	6	9
A41	36.5	-	81.5	34	141.5	60	-	6	9
A42	36.5	-	81.5	34	141.5	60	-	6	9
A43	36.5	-	81.5	-	141.5	60	-	8	10.2
A44	36.5	-	81.5	34	141.5	60	-	8	10.2
A45	36.5	-	81.5	34	141.5	60	-	8	10.2

夹臂 \ 夹紧器	63								
	L1±0.05	L2±0.2	L3±0.2	L4±0.1	L5±0.1	B1±0.2	B2±0.2	D1(H7)	D2
A10	36.5	51.5	-	-	145.1	-	30	6	9
A11	36.5	51.5	-	37	145.1	-	30	6	9
A12	36.5	51.5	-	37	145.1	-	30	6	9
A90	36.5	51.5	-	-	145.1	-	30	8	10.2
A91	36.5	51.5	-	37	145.1	-	30	8	10.2
A92	36.5	51.5	-	37	145.1	-	30	8	10.2
A40	36.5	-	81.5	-	145.1	60	-	6	9
A41	36.5	-	81.5	37	145.1	60	-	6	9
A42	36.5	-	81.5	37	145.1	60	-	6	9
A43	36.5	-	81.5	-	145.1	60	-	8	10.2
A44	36.5	-	81.5	37	145.1	60	-	8	10.2
A45	36.5	-	81.5	37	145.1	60	-	8	10.2

夹臂 \ 夹紧器	80								
	L1±0.05	L2±0.2	L3±0.2	L4±0.1	L5±0.1	B1±0.2	B2±0.2	D1(H7)	D2
A10	50	70	-	-	190	-	34	6	9
A11	50	70	-	50.5	190	-	34	6	9
A12	50	70	-	50.5	190	-	34	6	9
A90	50	70	-	-	190	-	34	8	10.2
A91	50	70	-	50.5	190	-	34	8	10.2
A92	50	70	-	50.5	190	-	34	8	10.2
A40	50	-	95	-	190	59	-	6	9
A41	50	-	95	50.5	190	59	-	6	9
A42	50	-	95	50.5	190	59	-	6	9
A43	50	-	95	-	190	59	-	8	10.2
A44	50	-	95	50.5	190	59	-	8	10.2
A45	50	-	95	50.5	190	59	-	8	10.2



DNC40x75

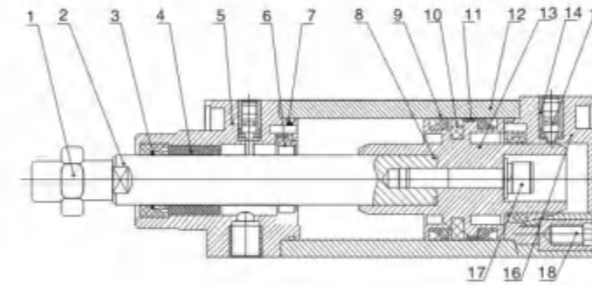
### ● 订购码 Ordering Code

DNC	63	50	25	S	LB
系列代号 Series Code	缸径 Bore	行程 Stroke	可调行程 Adjustable Stroke	磁石代号 Magnet	固定形式 Mountings
DNC:ISO6431标准复动型			25:25mm	S: 附磁石	空白: 基本型
DNCD:ISO1552标准双轴复动型			50:50mm	空白: 不附磁石	LB: 前后固定型
DNCJ:ISO6431双轴行程可调型			75:75mm	S: With magnet	FA: 前盖固定型(前法兰)
DNC:ISO6431 Standard Double Action Type				Blank: Without magnet	FB: 后盖固定型(后法兰)
DNCD:ISO6431 Standard Double-shaft, Double Acting					CA: 后盖固定型(单耳环)
DNCJ:ISO6431 Double-shaft With Adjustable Stroke					CB: 后盖固定型(双耳环)
					SDB: 后盖固定型(斜耳环)
					TC: 中间摇摆式
					Blank: Basic type
					LB: Front & back fixed type
					FA: Front cover fixed type (Front flange type)
					FB: Back cover fixed type (Back flange type)
					CA: Back cover fixed type (Single earring)
					CB: Back cover fixed type (Double earring)
					SDB: Back cover fixed type
					TC: Central trunnion type

### ● 规格 Specification

内径 Bore (mm)	32	40	50	63	80	100	125
动作型式/Motion Pattern	复动 Double Action						
工作介质/Working Medium	经过滤的空气 Filtered Air						
耐压实验压力/Compression Pressure	1.5MPa						
最高使用压力/Max. Operating Pressure	1.0MPa						
最低工作压力/Min. Operating Pressure	0.1MPa						
缓冲/Buffer	气缓冲(标准) Air Buffer(Standard)						
环境温度/Condition Temperature	5~60°C						
使用速度/Operating Speed	50~500mm/s						
行程误差/Margin of Stroke Error(mm)	0~250		251~1000		1001~1500		
使用寿命/Operating Life	不低于 Not Less Than 4000km						
润滑/Lubricate	不需要 Not Necessary+1.0						
接管口径/Port Size	G1/8"	G1/4"	G3/8"		G1/2"		

### ● 内部结构 Internal Structure

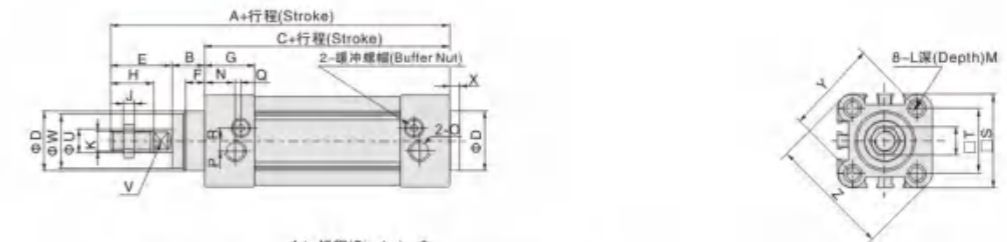


### ● 零件表 Parts

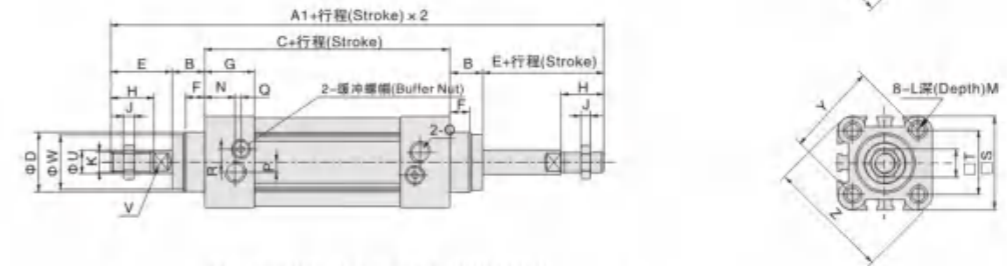
序号 NO.	名称 Designation	序号 NO.	名称 Designation
1	活塞杆螺母 Piston Rod Nut	10	磁铁(可选) Magnet(Optional)
2	活塞杆 Piston Rod	11	耐磨环 Wear Ring
3	前盖防尘圈 Front Cover Seal Ring	12	缸筒 Barrel
4	含油轴套 Bushing	13	活塞 Piston
5	前盖 Front Cover	14	缓冲针密封圈 Buffer Seal
6	缓冲密封圈 Cushion O-ring	15	缓冲调节针 Buffer Needle
7	管壁O型圈 O-ring	16	后盖 Cover
8	活塞杆密封圈 Piston rod O-ring	17	内六角螺栓 Hex Socket Screw
9	活塞O型圈 Piston O-ring	18	端盖固定螺母 Profile Bolts

### ● 外形尺寸 Overall Dimension

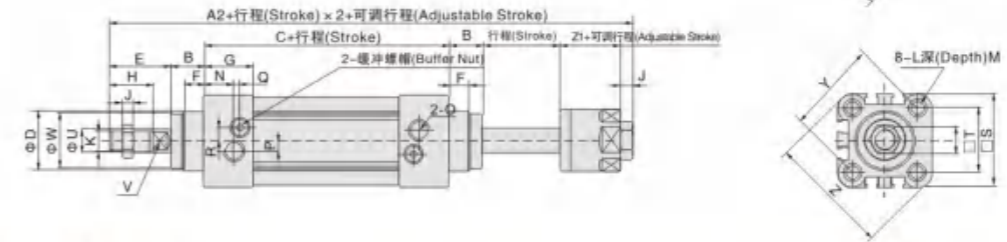
#### DNC



#### DNCD



#### DNCJ



### ● 尺寸表 Dimension Sheet

内径Bore/符号Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L
32	142	190	185	16	94	30	32	10	26	22	17	6	M10 x 1.25	M6
40	159	213	207	21	105	35	34	10	29.5	24	17	7	M12 x 1.25	M6
50	175	244	233	27	106	40	42	10	30	32	23	8	M16 x 1.5	M8
63	190	258	247	27	122	45	42	10	35.5	32	23	8	M16 x 1.5	M8
80	214	301	288	35	127	45	54	10	36	40	26	10	M20 x 1.5	M10
100	229	321	308	38	137	55	54	10	39	40	26	10	M20 x 1.5	M10
125	277	394	378	46	160	60	71	10	45	54	40	10	M27 x 2	M12

内径Bore/符号Symbol	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Z1
32	12	15	G1/8	5	3	6.5	45	32.5	12	10	28	4	46	58.7	21
40	12	17.5	G1/4	7	3	7	52	38	16	13	33	4	53.7	68	21
50	12	20	G1/4	7	3	9	65	46.5	20	17	38	4	65.8	84.5	23
63	12	22	G3/8	8	5	9	76	56.5	20	17	38	4	79.9	99.6	23
80	15	23	G3/8	10	5	12	94	72	25	22	43.5	5	101.8	123.8	29
100	15	26	G1/2	10	5	14	112	89	25	22	47	6	125.9	148.9	29
125	20	29	G1/2	10	5	14	134	110	32	27	53	7	156.9	179.6	40.5



SDNC40x75S

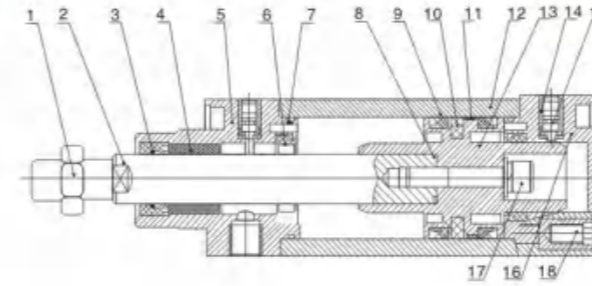
### ● 订购码 Ordering Code

<b>S</b>	<b>DNC</b>	<b>63</b>	<b>50</b>	<b>25</b>	<b>S</b>	<b>LB</b>
<b>材料 Magnet</b>	<b>系列代号 Series Code</b>	<b>缸径 Bore</b>	<b>行程 Stroke</b>	<b>可调行程 Adjustable Stroke</b>	<b>磁石代号 Magnet</b>	<b>固定形式 Mountings</b>
S: 不锈钢 S: Stainless steel	DNC:ISO6431标准复动型 DNCJ:ISO6431标准双轴复动型 DNCJ:ISO6431双轴行程可调型 DNC:ISO6431 Standard Double Action Type DNCJ:ISO6431 Standard Double-shaft, Double Acting DNCJ:ISO6431 Double-shaft With Adjustable Stroke			25:25mm 50:50mm 75:75mm	S: 附磁石 空白: 不附磁石 S: With magnet Blank: Without magnet	空白: 基本型 LB: 前后固定型 FA: 前盖固定型(前法兰) FB: 后盖固定型(后法兰) CA: 后盖固定型(单耳环) CB: 后盖固定型(双耳环) SDB: 后盖固定型(斜耳环) TC: 中间摇摆式 Blank: Basic type LB: Front & back fixed type FA: Front cover fixed type (Front flange type) FB: Back cover fixed type (Back flange type) CA: Back cover fixed type (Single earring) CB: Back cover fixed type (Double earring) SDB: Back cover fixed type TC: Central trunnion type

### ● 规格 Specification

内径 Bore (mm)	32	40	50	63	80	100	125
动作型式/Motion Pattern	复动 Double Action						
工作介质/Working Medium	经过滤的空气 Filtered Air						
耐压实验压力/Compression Pressure	1.5MPa						
最高使用压力/Max. Operating Pressure	1.0MPa						
最低工作压力/Min. Operating Pressure	0.1MPa						
缓冲/Buffer	气缓冲(标准) Air Buffer(Standard)						
环境温度/Condition Temperature	5-60°C						
使用速度/Operating Speed	50-500mm/s						
行程误差/Margin of Stroke Error(mm)	0-250		251-1000		1001-1500		
使用寿命/Operating Life	不低于 Not Less Than 4000km						
润滑/Lubricate	不需要 Not Necessary+1.0						
接管口径/Port Size	G1/8"	G1/4"	G3/8"			G1/2"	

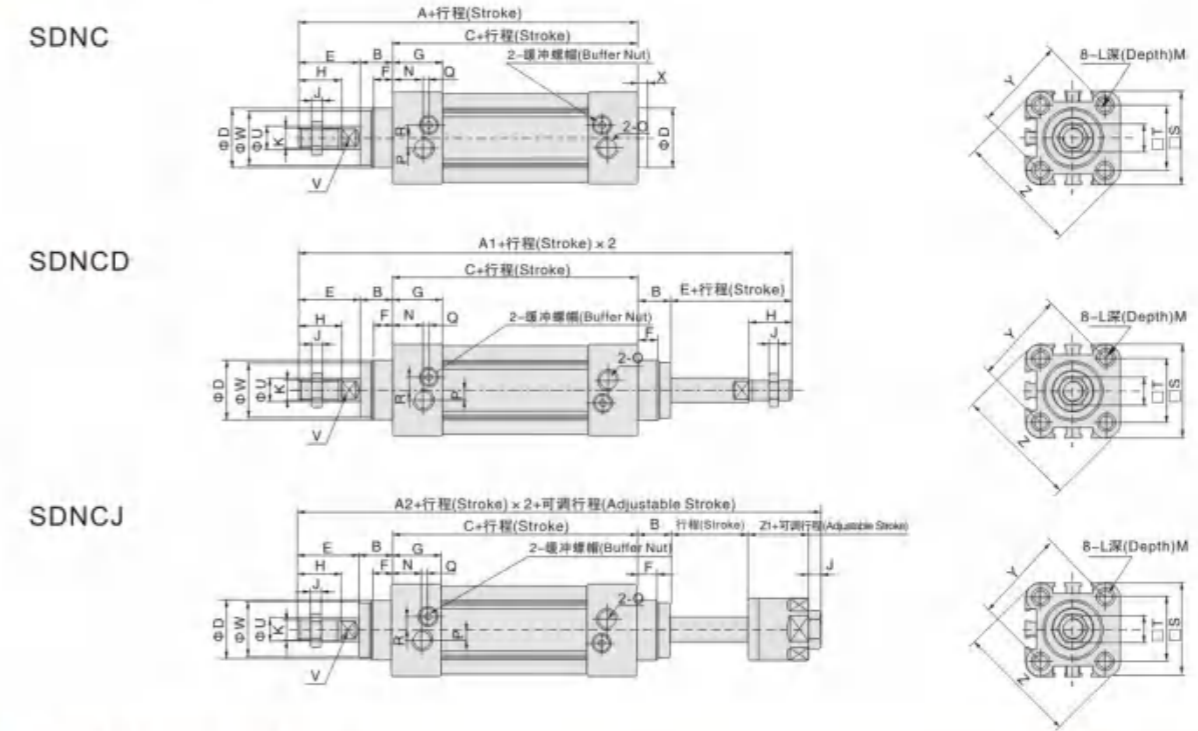
### ● 内部结构 Internal Structure



### ● 零件表 Parts

序号 NO.	名称 Designation	序号 NO.	名称 Designation
1	活塞杆螺母 Piston Rod Nut	10	磁铁(可选) Magnet(Optional)
2	活塞杆 Piston Rod	11	耐磨环 Wear Ring
3	前盖防尘圈 Front Cover Seal Ring	12	缸筒 Barrel
4	含油轴套 Bushing	13	活塞 Piston
5	前盖 Front Cover	14	缓冲针密封圈 Buffer Seal
6	缓冲密封圈 Cushion O-ring	15	缓冲调节针 Buffer Needle
7	管壁O型圈 O-ring	16	后盖 Cover
8	活塞杆密封圈 Piston rod O-ring	17	内六角螺栓 Hex Socket Screw
9	活塞O型圈 Piston O-ring	18	端盖固定螺母 Profile Bolts

### ● 外形尺寸 Overall Dimension



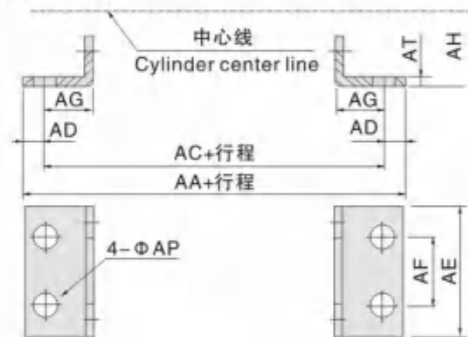
### ● 尺寸表 Dimension Sheet

内径Bore/符号Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L
32	142	190	185	16	94	30	32	10	26	22	17	6	M10 x 1.25	M6
40	159	213	207	21	105	35	34	10	29.5	24	17	7	M12 x 1.25	M6
50	175	244	233	27	106	40	42	10	30	32	23	8	M16 x 1.5	M8
63	190	258	247	27	122	45	42	10	35.5	32	23	8	M16 x 1.5	M8
80	214	301	288	35	127	45	54	10	36	40	26	10	M20 x 1.5	M10
100	229	321	308	38	137	55	54	10	39	40	26	10	M20 x 1.5	M10
125	277	394	378	46	160	60	71	10	45	54	40	10	M27 x 2	M12

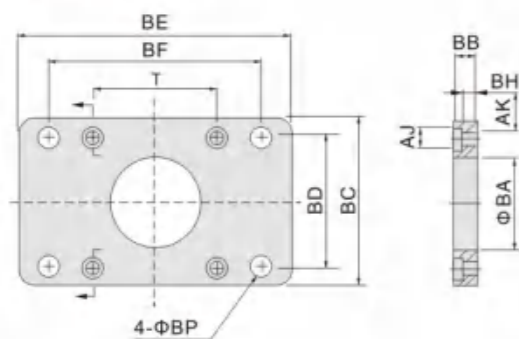
内径Bore/符号Symbol	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Z1
32	12	15	G1/8	5	3	6.5	45	32.5	12	10	28	4	46	58.7	21
40	12	17.5	G1/4	7	3	7	52	38	16	13	33	4	53.7	68	21
50	12	20	G1/4	7	3	9	65	46.5	20	17	38	4	65.8	84.5	23
63	12	22	G3/8	8	5	9	76	56.5	20	17	38	4	79.9	99.6	23
80	15	23	G3/8	10	5	12	94	72	25	22	43.5	5	101.8	123.8	29
100	15	26	G1/2	10	5	14	112	89	25	22	47	6	125.9	148.9	29
125	20	29	G1/2	10	5	14	134	110	32	27	53	7	156.9	179.6	40.5

● LB支架 / LB



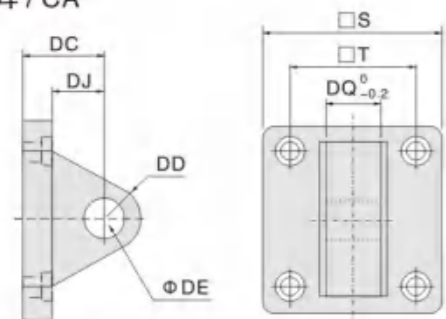
内径 Bore	32	40	50	63	80	100	125
AA	158	179	190	209	248	258	290
AC	142	161	170	185	210	220	250
AD	8	9	10	12	19	19	20
AE	47	53	65	75	95	115	140
AF	32	36	45	50	63	75	90
AG	24	28	32	32	41	45	45
AH	32	36	45	50	63	71	90
AP	7	9	9	9	12.5	14.5	16.5
AT	3	3	3	3	4	4	6

● FA、FB法兰板 / FA、FB



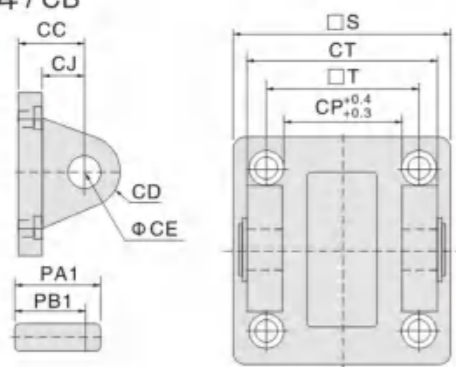
内径 Bore	32	40	50	63	80	100	125
AJ	11	11	14	14	17	17	19
AK	7	7	9	9	11	11	13
BA	30.5	35.5	40.5	45.5	45.5	55.5	60.5
BB	10	10	12	12	16	16	20
BC	47	53	65	75	95	115	140
BD	32	36	45	50	63	75	90
BE	80	90	110	125	154	186	224
BF	64	72	90	100	126	150	180
BH	4	4	4	6	6	6	8
BP	7	9	9	9	12.5	14.5	16.5
T	32.5	38	46.5	56.5	72	89	110

● CA单耳 / CA



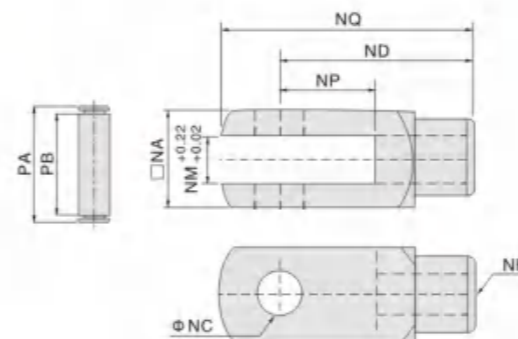
内径 Bore	32	40	50	63	80	100	125
S	47	53	65	75	95	115	140
T	32.5	38	46.5	56.5	72	89	110
DC	22	25	27	32	36	41	50
DD	9	12	12	15	15	20	25
DE	10	12	12	16	16	20	25
DJ	13	16	17	22	22	27	33
DQ	25.8	27.8	31.7	39.7	49.7	59.7	69.7

● CB双耳 / CB



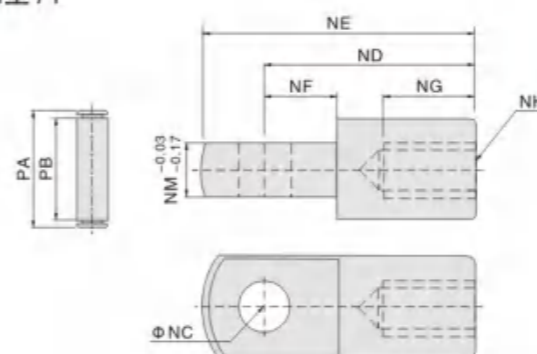
内径 Bore	32	40	50	63	80	100	125
CC	22	25	27	32	36	41	50
CD	9	12	12	15	15	20	25
CE	10	12	12	16	16	20	25
CJ	13	16	17	22	22	27	31
CP	26	28	32	40	50	60	70
CT	45	52	60	70	90	110	130
PA1	51	59	67	77	97	119	139
PB1	45.5	52.5	60.5	70.5	90.5	110.5	130.5
S	47	53	65	75	95	115	140
T	32.5	38	46.5	56.5	72	89	110

● Y型 / Y



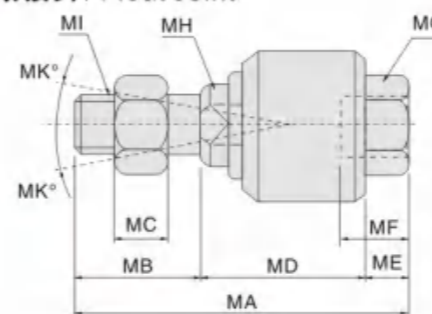
内径 Bore	NA	NC	ND	NE	NF	NG
32	19	10	40	52	15	20
40	25.4	12	48	67	24	20
50	32	16	64	89	32	23
63	32	16	64	89	32	23
80	44.4	20	80	112	40	30
100	44.4	20	80	112	40	30
125	55	20	100	130	50	56

● I型 / I



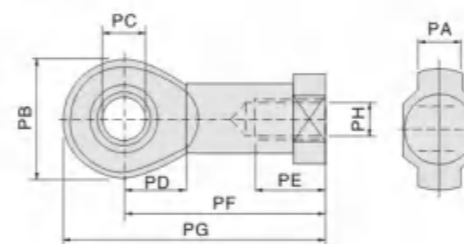
内径 Bore	NH	NM	NP	NQ	PA	PB
32	M10 × 1.25	10	20	52	26.2	20
40	M12 × 1.25	12	24	62	32.8	26.5
50	M16 × 1.5	16	32	83	39.3	33
63	M16 × 1.5	16	32	83	39.3	33
80	M20 × 1.5	20	40	105	53.3	45
100	M20 × 1.5	20	40	105	53.3	45
125	M27 × 2.0	30	45	130	64	55.6

● UJ浮动接头 / Float Joint



内径 Bore	MA	MB	MC	MD	ME	MF	MG	MH	MI
32	73	20	6	45	8	26	M10 × 1.25	12	M10 × 1.25
40	77	24	7	46	7	26	M12 × 1.25	12	M12 × 1.25
50	106	32	8	62	12	34	M16 × 1.5	19	M16 × 1.5
63	106	32	8	62	12	34	M16 × 1.5	19	M16 × 1.5
80	122	40	10	68	14	42	M20 × 1.5	19	M20 × 1.5
100	122	40	10	68	14	42	M20 × 1.5	19	M20 × 1.5
125	147	54	13.5	77	16	40	M27 × 2.0	24	M27 × 2.0

● PHS鱼眼接头 / Fisheyes



内径 Bore	PA	PB	PC	PD	PE	PF	PG	PH
32	14	28	10	15	20	43	57	M10 × 1.25
40	16	32	12	17	22	50	66	M12 × 1.25
50	21	42	16	22	28	64	85	M16 × 1.5
63	21	42	16	22	28	64	85	M16 × 1.5
80	25	50	20	26	33	77	102	M20 × 1.5
100	25	50	20	26	33	77	102	M20 × 1.5
125	37	70	30	36	51	110	145	M27 × 2.0



SI150x100

### ● 订购码 Ordering Code

SI	50	50	25	S	LB
系列代号 Series Code	缸径 Bore	行程 Stroke	可调行程 Adjustable Stroke	磁石代号 Magnet	固定形式 Mountings
SI: ISO6431 标准复动型			25:25mm	S: 内置磁环	空白: 基本型
SID: ISO6431 标准双轴复动型			50:50mm	空白: 标准型	LB: 前后固定型
SIJ: ISO6431 双轴行程可调型			75:75mm	S: With magnet	FA: 前盖固定型(前法兰)
SI: ISO6431 Standard Double Action Type				Blank: Without magnet	FB: 后盖固定型(后法兰)
SID: ISO6431 Standard Double-shaft, Double Acting					CA: 后盖固定型(单耳环)
SIJ: ISO6431 Double-shaft With Adjustable Stroke					CB: 后盖固定型(双耳环)
					SDB: 后盖固定型(斜耳环)
					TC: 中间摇摆式
					Blank: Basic type
					LB: Front & back fixed type
					FA: Front cover fixed type (Front flange type)
					FB: Back cover fixed type (Back flange type)
					CA: Back cover fixed type (Single earring)
					CB: Back cover fixed type (Double earring)
					SDB: Back cover fixed type
					TC: Central trunnion type

### ● 规格 Specification

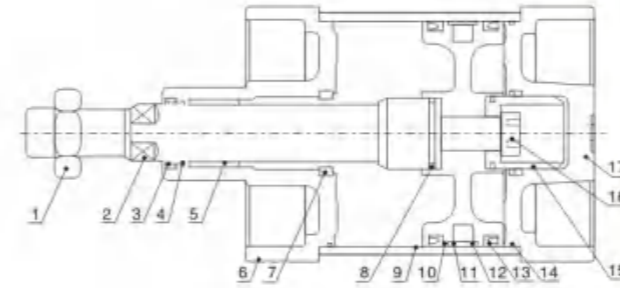
内径 Bore(mm)	32	40	50	63	80	100	125	160	200
动作型式 Motion Pattern	复动型 Double Action								
工作介质 Working Medium	经过滤的空气 Filtered Air								
固定型式 Fixed Type	SI	基本型/Normal type FA型/Type FB型/Type CA型/Type CB型/Type CR型/Type LB型/Type TC型/Type TCM1型/Type TCM2型/Type							
	SID、SIJ	基本型/Normal type FA型/Type FB型/Type TC型/Type FTC型/Type TCM1型/Type TCM2型/Type							
使用压力范围 Working pressure Range	0.1~1.0MPa								
保证耐压力 Ensured Pressure Resistance	1.5MPa								
使用温度范围 Operating Temperature Range	-20~70								
使用速度范围 Operating Speed Range	30~800				30~500				
行程公差范围 Range of stroke tolerance	0~250 <sup>±0.15</sup> 251~1000 <sup>±0.15</sup> 1001~1500 <sup>±0.2</sup>								
缓冲型式 Buffer Type	可调节缓冲/Adjustable Buffer								
缓冲行程/Buffer Stroke	27	30	36	40	50				
接管口径/Port Size	PT1/8	PT1/4	PT3/8	PT1/2	PT3/4				

[注1] 接管牙型有G牙、NPT牙可选。

### ● 行程 Stroke

内径 Bore(mm)	标准行程 Standard Stroke	最大行程 Max.Stroke	容许行程 Permissible Stroke
32	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	1000	1800
40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	1200	1800
50	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1200	1800
63	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	1800
80	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	1800
100	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	1800
125	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	1800
160	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
200	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000

### ● 内部结构 Internal Structure



### ● 零件表 Parts

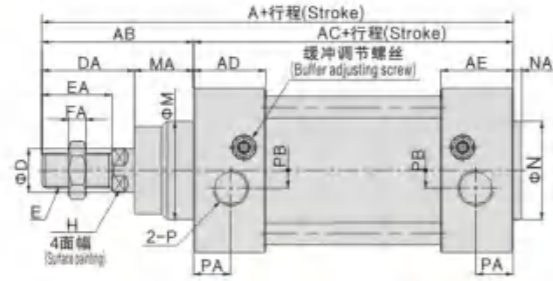
序号 NO.	名称 Designation	序号 NO.	名称 Designation
1	活塞杆螺母 Piston Rod Nut	10	活塞 Piston
2	活塞杆 Piston Rod	11	耐磨环 Wear Ring
3	前盖密封圈 Front Cover Seal Ring	12	磁铁(可选) Magnet(Optional)
4	O型圈 O-ring	13	活塞O型圈 Piston O-ring
5	含油轴承 Bearing	14	管壁O型圈 Pipe Wall O-ring
6	前盖 Front Cover	15	缓冲体 Damping
7	缓冲体O型圈 Buffering O-ring	16	内六角螺栓 Hex Socket Screw
8	活塞杆 Piston Rod O-ring	17	后盖 Back Over
9	缸筒 Barrel		

### ● 气缸理论出力表 Cylinder theory output Sheet

气缸内径 Cylinder Inside Diameter	活塞杆外径 External Diameter of Piston Rod	动作型式 Motion Pattern	受压面积 Compression Area(cm <sup>2</sup> )	空气压力 Air Pressure(Kgf/cm <sup>2</sup> )										
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9		
32	12	压侧 Press Side	804	80.4	160.8	241.2	321.6	402.0	482.4	562.8	643.2	723.6		
		拉侧 Pull Side	690	69.0	138.0	207.0	276.0	345.0	414.0	483.0	552.0	621.0		
40	16	压侧 Press Side	1256	125.6	251.2	376.8	502.4	628.0	753.6	879.2	1004.8	1130.4		
		拉侧 Pull Side	1055	105.5	211.0	316.5	422.0	527.5	633.0	738.5	844.0	949.5		
50	20	压侧 Press Side	1963	196.3	392.6	588.9	785.2	981.5	1177.8	1374.1	1570.4	1766.7		
		拉侧 Pull Side	1649	164.9	329.8	494.7	659.6	824.5	989.4	1154.3	1319.2	1484.1		
63	20	压侧 Press Side	3117	311.7	623.4	923.1	1246.8	1558.5	1870.2	2181.9	2493.6	2805.3		
		拉侧 Pull Side	2803	280.3	560.6	840.9	1121.2	1401.5	1681.8	1962.1	2242.4	2522.7		
80	25	压侧 Press Side	5026	502.6	1005.2	1507.8	2010.4	2513.0	3015.6	3518.2	4020.8	4523.4		
		拉侧 Pull Side	4536	453.6	907.2	1360.8	1814.4	2268.0	2721.6	3175.2	3628.8	4082.4		
100	25	压侧 Press Side	7853	785.3	1570.6	2355.9	3141.2	3926.5	4711.8	5497.1	6282.4	7067.7		
		拉侧 Pull Side	7362	736.2	1472.4	2208.6	2948.8	3681.0	4417.2	5153.4	5889.6	6625.8		
125	32	压侧 Press Side	12272	1227.2	2454.4	3681.6	4908.8	6136.0	7363.2	8590.4	9817.6	11044.8		
		拉侧 Pull Side	11468	1146.8	2293.6	3440.4	4587.2	5734.0	6880.8	8027.6	9174.4	10321.2		
160	40	压侧 Press Side	20106	2010.6	4021.2	6031.8	8042.4	10053.0	12063.6	14074.2	16084.8	18095.4		
		拉侧 Pull Side	18849	1884.9	3769.8	5654.7	7539.6	9424.5	11309.4	13194.3	15079.2	16964.1		
200	40	压侧 Press Side	31416	3141.6	6283.2	9424.8	12566.4	15708.0	18849.6	21991.2	25132.8	28274.4		
		拉侧 Pull Side	30157	3015.7	6031.4	9047.1	12062.8	15078.5	18094.2	21109.9	24125.6	27141.3		

● 规格 Specification

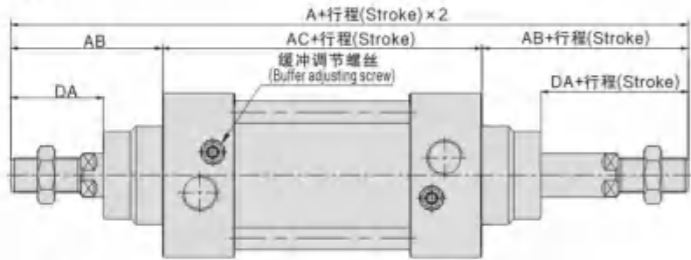
SI



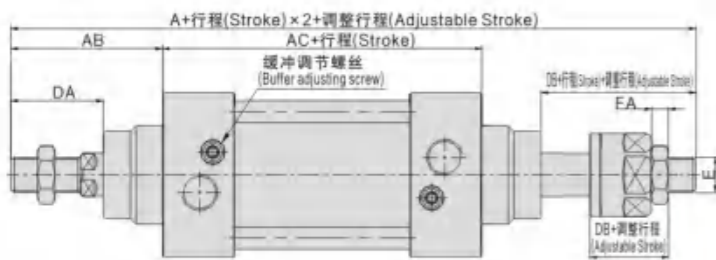
缸径符号	A	AB	AC	AD	AE	B	D	DA	E	EA	F	FA	M	MA	H	K(不附TC)	K(附TC)	KA(不附TC)	KA(附TC)	KB	N	NA	P	PA	PB
32	142	48	94	27.5	27.5	47	12	29	M10×1.25	22	17	6	30	19	10	M6	M5	16	14	32.5	30	3	PT18	13	5.5
40	159	54	105	32	32	53	16	33	M12×1.25	24	17	7	35	21	13	M6	M5	16	16	38	35	3.5	PT14	17	6
50	175	69	106	31	31	65	20	42	M16×1.5	32	23	8	40	27	17	M8	M6	16	16	46.5	40	3.5	PT14	15.5	7.5
63	190	69	121	33	33	75	20	42	M16×1.5	32	23	8	45	27	17	M8	M6	16	16	56.5	45	4	PT38	16.5	7.5
80	214	86	128	33	33	95	25	53	M20×1.5	40	26	10	45	33	22	M10	M8	17	16	72	45	4	PT38	16.5	9
100	229	91	138	37	37	115	25	55	M20×1.5	40	26	10	55	36	22	M10	M8	17	16	89	55	4	PT12	18.5	9.5
123	279	119	160	46	46	140	32	74	M27×2.0	54	41	13.5	60	45	27	M12	M12	20	20	110	60	4	PT12	23	14
160	332	152	180	50	50	180	40	94	M36×2.0	72	55	18	65	58	36	M16	M16	24	24	140	65	4	PT34	25	15
200	347	167	180	50	50	220	40	100	M36×2.0	72	55	18	75	67	36	M16	M16	24	24	175	75	5	PT34	25	15

[注] 附磁型与不附磁型之尺寸相同。

SID



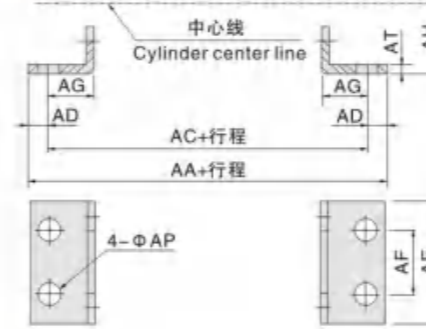
SIJ



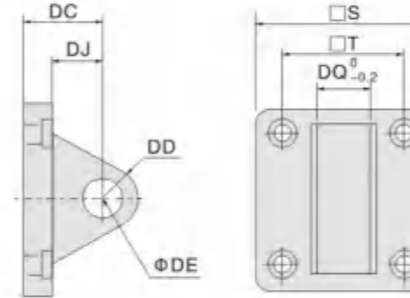
缸径符号 规格代号	A		AB	AC	DA	DB	E	FA
	SID	SIJ						
32	190	188	48	94	29	27	M10X1.25	6
40	213	208	54	105	33	28	M12X1.25	7
50	244	231	69	105	42	29	M16X1.5	8
63	259	246	69	121	42	29	M16X1.5	8
80	300	282.5	86	128	53	35.5	M20X1.5	10
100	320	300.5	91	138	55	35.5	M20X1.5	10
125	398	366.5	119	160	74	42.5	M27X2.0	13.5
160	484	458	152	180	94	68	M36X2.0	18
200	514	482	167	180	100	68	M36X2.0	18

[注] 1、附磁型与不附磁型之尺寸相同。  
2、未标注之尺寸与SI标准型相同。

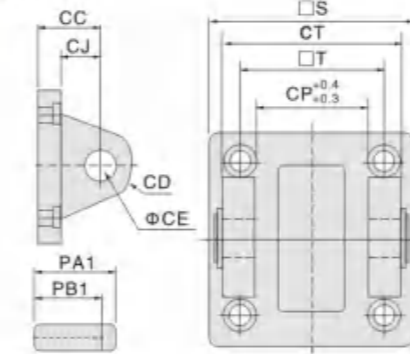
● LB支架/LB



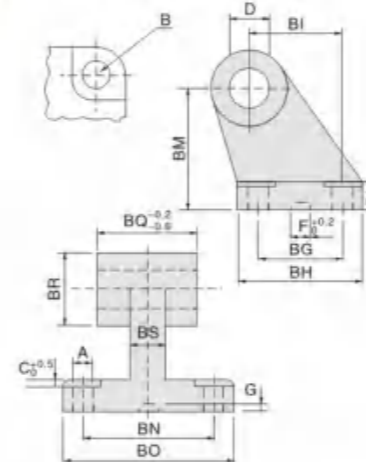
● CA单耳/CA



● CB双耳/CB



● SDB后盖固定型(斜耳环)/SDB



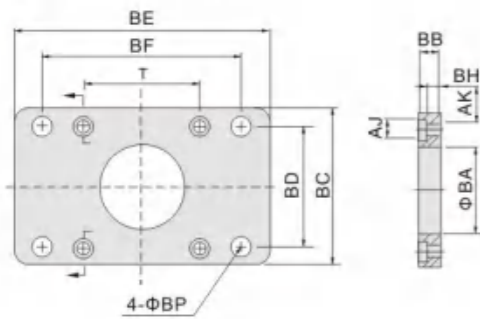
内径 Bore	32	40	50	63	80	100	125	160	200
AA	158	179	190	209	248	266	290	340	380
AC	142	161	170	185	210	228	250	300	320
AD	8	9	10	12	19	19	20	20	30
AE	47	53	65	75	95	115	140	180	220
AF	32	36	45	50	63	75	90	115	135
AG	24	28	32	32	41	45	45	60	70
AH	32	36	45	50	63	71	90	115	135
AP	7	9	9	9	12	14.5	16.5	18.5	24
AT	3	3	3	3	4	4	8	6	9

内径 Bore	32	40	50	63	80	100	125	160	200
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175
DC	22	25	27	32	36	41	50	55	60
DD	9	12	12	15	15	20	25	30	30
DE	10	12	12	16	16	20	25	30	30
DJ	13	16	17	22	22	27	33	35.5	36
DQ	25.8	27.8	31.7	39.7	49.7	59.7	69.7	89.7	89.7

内径 Bore	32	40	50	63	80	100	125	160	200
CC	22	25	27	32	36	41	50	55	60
CD	9	12	12	15	15	20	25	30	30
CE	10	12	12	16	16	20	25	30	30
CJ	13	16	17	22	22	27	31	35.5	36
CP	26	28	32	40	50	60	70	90	90
CT	45	52	60	70	90	110	130	170	170
PA1	51	59	67	77	97	119	139	181	181
PB1	45.5	52.5	60.5	70.5	90.5	110.5	130.5	170.5	170.5
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175

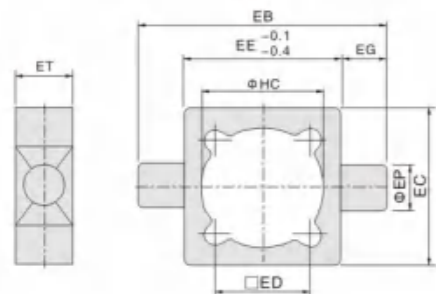
内径 Bore	32	40	50	63	80	100	125
A	6.6	6.6	9	9	11	11	14
B	11	11	15	15	18	18	20
BG	18	22	30	35	40	50	60
BH	31	35	45	50	60	70	90
BI	21	24	33	37	47	55	70
BL	8	10	10.5	12	14	17	20
BM	32	36	45	50	63	71	90
BN	38	41	50	52	66	76	94
BO	51	54	65	67	83	96	124
BS	12	15	18	22	20	20	30
BR	20	22	26	30	30	38	45
C	1.6	1.6	1.6	1.6	2.5	2.5	3.2
D	10	12	12	16	16	20	25
F	10.5	10.5	10.5	10.5	10.5	10.5	10.5
G	3	3	3	3	3	3	3
BQ	25	28	32	40	50	60	70

● FA、FB法兰板 / FA、FB



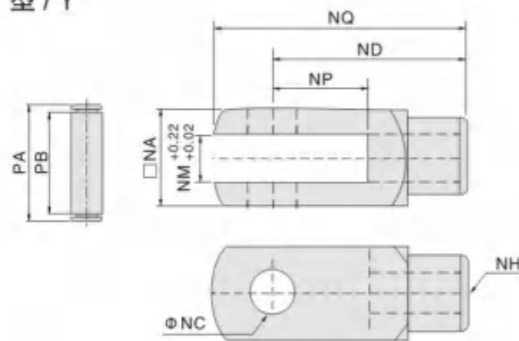
内径 Bore	32	40	50	63	80	100	125	160	200
AJ	11	11	14	14	17	17	19	25	25
AK	7	7	9	9	11	11	13	17	17
BA	30.5	35.5	40.5	45.5	45.5	55.5	60.5	65.5	75.5
BB	10	10	12	12	16	16	20	20	25
BC	47	53	65	75	95	115	140	180	220
BD	32	36	45	50	63	75	90	115	135
BE	80	90	110	125	154	186	224	280	320
BF	64	72	90	100	126	150	180	230	270
BH	4	4	4	6	6	6	8	8	12
BP	7	9	9	9	12.5	14.5	16.5	18.5	24
T	32.5	38	46.5	56.5	72	89	110	140	175

● TC中摆 / TC



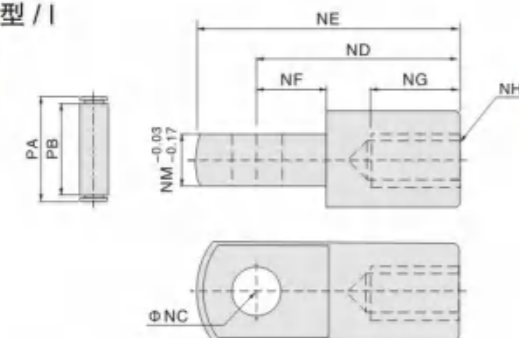
内径 Bore	32	40	50	63	80	100	125	160	200
EB	100	113	125	140	160	182	-	-	-
EC	52	63	74	80	105	128	-	-	-
ED	32.5	38	46.5	56.5	72	89	-	-	-
EE	52	63	75	90	105	128	-	-	-
EG	25	25	25	25	25	25	-	-	-
EP	12	16	16	20	20	25	-	-	-
ET	20	22	22	28	28	34	-	-	-
HC	37	45	55	68	87	107.5	-	-	-

● Y型 / Y



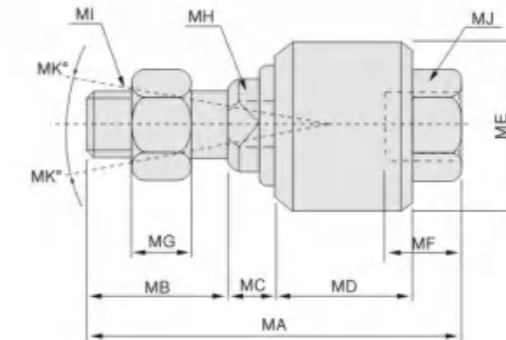
内径 Bore	NA	NC	ND	NE	NF	NG
32	19	10	40	52	15	20
40	25.4	12	48	67	24	20
50	32	16	64	89	32	23
63	32	16	64	89	32	23
80	44.4	20	80	112	40	30
100	44.4	20	80	112	40	30
125	55	20	100	130	50	56
160	80	30	125	155	50	72
200	80	30	125	155	55	72

● I型 / I



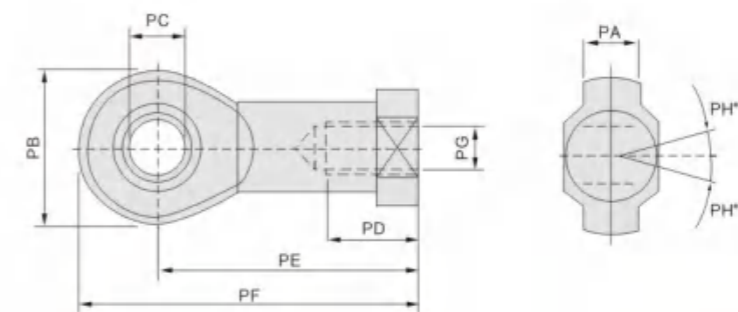
内径 Bore	NH	NM	NP	NQ	PA	PB
32	M10 × 1.25	10	20	52	262	20
40	M12 × 1.25	12	24	62	328	26.5
50	M16 × 1.5	16	32	83	393	33
63	M16 × 1.5	16	32	83	393	33
80	M20 × 1.5	20	40	105	533	45
100	M20 × 1.5	20	40	105	533	45
125	M27 × 2.0	30	45	130	64	55.6
160	M36 × 2.0	40	60	153	80	70.6
200	M36 × 2.0	40	60	153	80	70.6

● UJ浮动接头 / Float Joint



内径 Bore	MA	MB	MC	MD	ME	MF	MG	MH	MI	MK
32	58	22	7	21	26	11.5	7	10	M10 × 1.25	12
40	58	22	8	21	28	11.5	8	12	M12 × 1.25	12
50	90	27	10	41	44.5	20	10	17	M16 × 1.5	7
63	90	27	10	41	44.5	20	10	17	M16 × 1.5	7
80	102	29	13	46	53	24	13	22	M20 × 1.5	10
100	102	29	13	46	53	24	13	22	M20 × 1.5	10
125	147	54	13	64	62	39	14	30	M27 × 2.0	9
160	251	72	22	115	80	80	18	36	M36 × 2.0	4
200	251	72	22	115	80	80	18	36	M36 × 2.0	4

● PHS鱼眼接头 / Fisheyes



内径 Bore	PA	PB	PC	PD	PE	PF	PG	PH
32	11	26	10	21	43	56	M10 × 1.25	13
40	12	30	12	24	50	65	M12 × 1.25	13
50	15	38	16	33	64	83	M16 × 1.5	15
63	15	38	16	33	64	83	M16 × 1.5	15
80	18	46	20	40	77	100	M20 × 1.5	15
100	18	46	20	40	77	100	M20 × 1.5	15
125	37	70	30	51	110	145	M27 × 2.0	15
160	43	80	35	56	125	165	M36 × 2.0	16
200	43	80	35	56	125	165	M36 × 2.0	16



### ● 特点 Features

普通经济型, 结构简单, 安装形式多, 使用范围广; 外形及安装尺寸符合ISO / 6430国际标准; 两端带有可调缓冲装置, 避免冲击; 并可装置行程控制开关, 使气缸在任意位置换向或终止; 工作介质为经过滤并油雾的压缩空气, 气缸无需加油润滑。

General economized type, Simple structure, various installation forms and wide application; external form and installation size conform to ISO/6430 international standard, adjustable buffer fitted at both ends to reduce impact; stroke control switch can also be fixed to enable the cylinder to reverse or stop at any position; The working medium is the filtered and oil-misted compressed air, The air cylinder without the need to add lube.

### ● 产品说明 Product Explain

- ◆ 工作使用中负载不稳, 请选用输出力充裕的气缸, 特殊工作环境中(如高温环境, 结冻环境), 选用相对应或特殊制造气缸。
- ◆ 气缸接进气管前, 必须清除管内杂物(如金属屑末)。
- ◆ 使用介质请选用, 经过滤40 μm以上精度的压缩空气。
- ◆ 气缸拆下长时间不使用, 请加防尘堵塞, 防止杂物进入。
- ◆ For unstable load in the operation please select a cylinder with sufficient output force. For special work environment (such as high temperature environment and freezing environment), please select a related or special cylinder.
- ◆ Before connecting the inlet and outlet pipes of the cylinder any foreign matters (such as metal bits) inside the pipe should be removed.
- ◆ Please use compressed air filtered with minimum precision of 40 μm as the medium.
- ◆ When the cylinder is removed and left unused for long time, please add dust proof stopper to prevent the entry of foreign matters.

### ● 订购码 Ordering Code

SC	D	50	50	25	S	LB
系列 Series	系列代码 Series Code	缸径 Bore	行程 Stroke	可调行程 Adjustable Stroke	磁石代号 Magnet	固定形式 Mountings
SC: 拉杆式	空白: 标准复动型	32			S: 附磁石	空白: 基本型
SU: 拉杆式内藏式	D: 双轴复动型	40			空白: 不附磁石	LB: 前后固定型
SC: Tie rod type	J: 双轴可调行程型	50			S: With magnet	FA: 前盖固定型
SU: Profile type	Blank: Standard double acting	63			Blank: Without magnet	FB: 后盖固定型
	D: Double-shaft double acting	80				CA: 后盖单耳固定型
	J: Double-shaft with adjustable stroke	100				CB: 后盖双耳固定型
		125				TC: 中间摇摆式
		160				TC-M: 摇摆式附脚座
		200				Blank: Basic mountings
		250				LB: Front and back mounting
		320				FA: Front mounting flange
						FB: Rear mounting flange
						CA: Rear clevis (Single earring)
						CB: Rear hinge (Double earring)
						CB: Rear hinge
						TC-M: Center trunnion

### ● 规格 Specification

内径 Bore (mm)	32	40	50	63	80	100	125	160	200	250	320
动作型式 Operation	复动型 Double Action Type										
工作介质 Working Medium	空气 Air										
*固定型式 Mountings	基本型/Basic Type, FA型/Type, FB型/Type, CA型/Type, CB型/Type, LB型/Type, YB型/Type										
使用压力范围 Operating Pressure Range	1-9.0MPa										
保证耐压力 Proof Pressure	13.5MPa										
使用温度范围°C Operating Temperature Range	-5-70 °C										
使用速度范围 Operating Speed Range	50-800 mm/s										
缓冲型式 Cushion	可调缓冲 Adjust Buffer										
缓冲行程 Adjustable Cushioning Stroke	20										26
接管口径 Port Size	G1/8"	G1/4"			G3/8"			G1/2"			

\*SCD、SCJ的固定型工为: FA、FB、LB、TC和TC-M型。SCD, SCJ mountings: FA, FB, LB, TC and TC-M type.

### ● 行程 Stroke

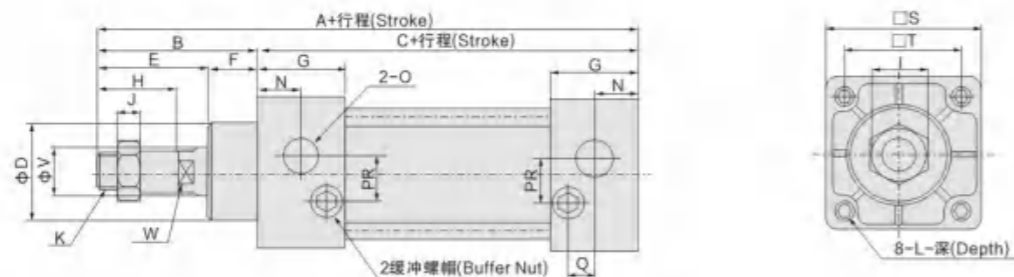
内径 Bore (mm)	标准行程 / Standard Stroke										最大行程 Max. Stroke	容许行程 Permissible Stroke											
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	1000	2000					
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	1200	2000		
50	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1200	2000
63	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
80	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
100	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
125	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
160	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
200	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
250	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
320	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000

### ● 气缸理论出力表 Cylinder theory output Sheet

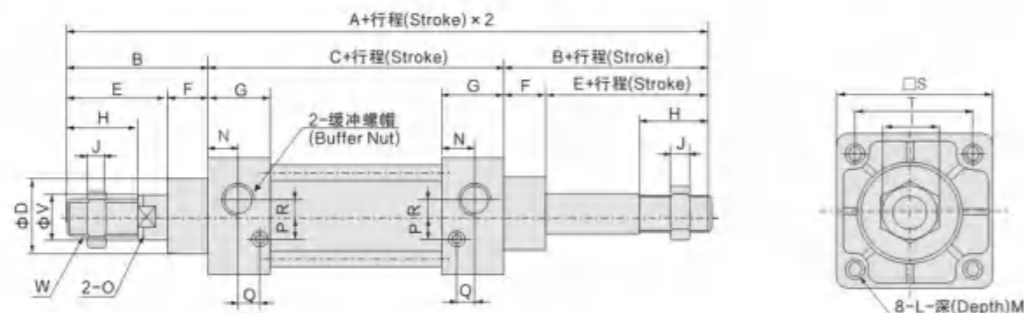
气缸内径 Cylinder Inside Diameter	32	40	50	63	80	100	125	160	200										
活塞杆外径 External Diameter of Piston Rod	12	16	20	20	25	25	32	40	40										
动作型式 Motion Pattern	复动型 Double Action		复动型 Double Action		复动型 Double Action		复动型 Double Action		复动型 Double Action		复动型 Double Action		复动型 Double Action		复动型 Double Action				
	压侧 Press Side	拉侧 Pull Side	压侧 Press Side	拉侧 Pull Side	压侧 Press Side	拉侧 Pull Side	压侧 Press Side	拉侧 Pull Side	压侧 Press Side	拉侧 Pull Side	压侧 Press Side	拉侧 Pull Side	压侧 Press Side	拉侧 Pull Side	压侧 Press Side	拉侧 Pull Side			
受压面积 (cm <sup>2</sup> ) Compression Area	8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	73.62	122.70	114.60	201.00	188.40	314.20	301.40	
空气压力 (Kg/cm <sup>2</sup> ) Air Pressure	1	8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	73.62	122.70	114.60	201.00	188.40	314.20	301.40
	2	16.08	13.80	25.12	21.10	39.26	32.98	62.34	56.06	100.52	90.72	157.06	147.24	245.40	229.20	402.00	376.80	628.40	602.80
	3	24.12	20.70	37.68	31.65	58.89	49.47	93.51	84.09	150.78	136.08	235.59	220.86	368.10	343.80	603.00	565.20	942.60	904.20
	4	32.16	27.60	50.24	42.20	78.52	65.96	124.68	112.12	201.04	181.44	314.12	294.48	490.80	458.40	804.00	753.60	1256.80	1205.60
	5	40.20	34.50	62.80	52.75	98.15	82.45	155.85	140.15	251.30	226.80	392.65	368.10	613.50	573.00	1005.00	942.00	1571.00	1507.00
	6	48.24	41.40	75.36	63.30	117.78	98.94	187.02	168.18	301.56	272.16	471.18	441.72	736.20	687.60	1206.00	1130.40	1885.20	1808.40
	7	56.28	48.30	87.92	73.85	137.41	115.43	218.19	196.21	351.82	317.52	549.71	515.34	858.90	802.20	1407.00	1318.80	2199.40	2109.80
	8	64.32	55.20	100.48	84.40	157.04	131.92	249.36	224.24	402.08	362.88	628.24	588.96	981.60	916.80	1608.00	1507.20	2513.60	2411.20
	9	72.36	62.10	113.04	94.95	176.67	148.41	280.53	252.27	452.34	408.24	706.77	662.58	1104.30	1031.40	1809.00	1695.60	2827.80	2712.60

### ● 外形尺寸 Overall Dimension

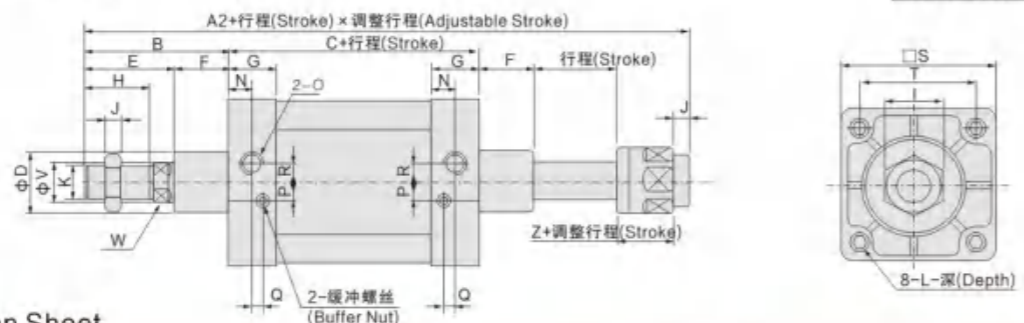
#### SC/SU



#### SCD/SUD



#### SCJ/SUJ



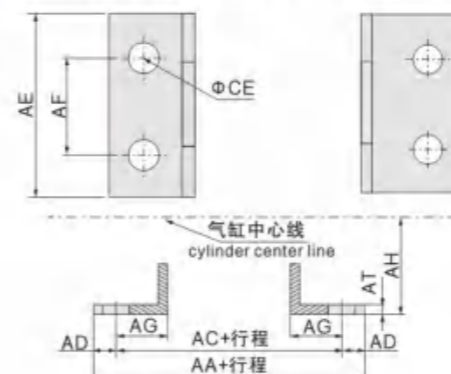
### ● 尺寸表 Dimension Sheet

内径/符号 Bore/Symbol	A	A1	A1	B	C	D	E	F	G	H	I	J	K
32	140	187	182	47	93	28	32	15	27.5	22	17	6	M10 × 1.25
40	142	191	185	48	93	32	34	15	27.5	24	17	7	M12 × 1.25
50	150	207	196	57	93	38	42	15	27.5	32	23	8	M16 × 1.5
63	153	210	199	57	96	38	42	15	27.5	32	23	8	M16 × 1.5
80	183	258	243	75	108	47	54	21	33	40	26	10	M20 × 1.5
100	189	264	249	75	114	47	54	21	33	40	26	10	M20 × 1.5
125	248	1351	-	103	145	60	70	31	40	54	40	10	M27 × 2
160	311.5	1443	-	131.5	180	65	94	37.5	50	72	55	18	M36 × 2
200	335	1485	-	150	185	75	100	50	50	72	55	18	M36 × 2
250	368	1538	-	170	198	85	100	70	50	84	65	21	M42 × 2
320	431	1632	-	201	230	110	126	75	55	96	75	24	M48 × 2

内径/符号 Bore/Symbol	L	M	N	O	P	Q	S	R	T	V	W	Z
32	M6 × 1	9.5	13.5	G1/8"	3.5	7.5	45	7	33	12	12	21
40	M6 × 1	9.5	1.35	G1/4"	6	8.2	50	9	37	16	14	21
50	M6 × 1	9.5	13.5	G1/4"	8.5	8.2	62	9	47	20	17	23
63	M8 × 1.25	9.5	13.5	G3/8"	7	8.2	75	8.5	56	20	17	23
80	M10 × 1.5	11.5	16.5	G3/8"	10	9.5	94	14	70	25	22	29
100	M10 × 1.5	11.5	16.5	G1/2"	11	9.5	112	14	84	25	22	29
125	M12 × 1.75	15.5	16.5	G1/2"	-	-	136	-	110	32	27	-
160	M16 × 2	17.5	25	G1/2"	-	-	180	-	140	40	36	-
200	M16 × 2	17.5	25	G3/4"	-	-	220	-	175	40	36	-
250	M20 × 2	25	31	G1"	18.5	5	278	40	220	50	46	-
320	M20 × 2	28	31	G1"	35	15	350	35	280	63	55	-

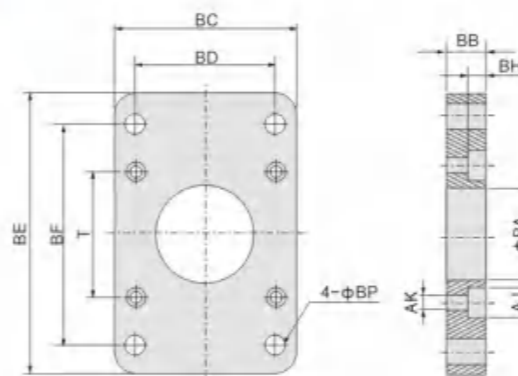
### LB脚架 / LB

#### ● 外形尺寸 Overall Dimension



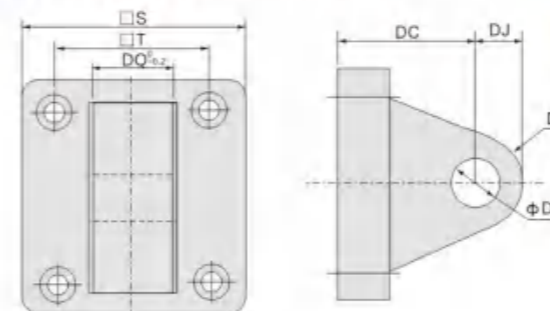
### FA,FB法兰 / FA,FB

#### ● 外形尺寸 Overall Dimension



### CA单耳环 / CA

#### ● 外形尺寸 Overall Dimension



### ● 尺寸表 Dimension Sheet

符号 / 缸径 Symbol/Bore	32	40	50	63	80	100	125	160	200
AA	153	169	173	184	200	210	249	328	380
AC	134	140	149	158	168	174	213	288	320
AD	9.5	14.5	12	12	16	18	18	20	30
AE	50	57	68	80	97	112	140	180	220
AF	33	36	47	56	70	84	90	115	135
AG	20.5	23.5	28	31	30	30	45	60	70
AJ	28	30	36.5	41	49	57	90	115	135
AP	9	12	12	12	14	14	16	18	22
AT	3.2	3.2	3.2	3.2	4	4	8	8	10

### ● 尺寸表 Dimension Sheet

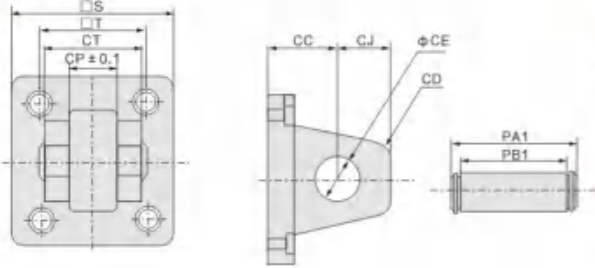
符号 / 缸径 Symbol/Bore	32	40	50	63	80	100	125	160	200
BA	28.3	32.3	38.3	38.3	47.3	47.3	56	63	81
BB	10	10	10	12	16	16	20	25	25
BC	47	52	65	76	95	115	140	180	220
BD	33	36	47	56	70	84	90	115	135
BE	72	84	104	116	143	162	224	280	320
BF	58	70	86	98	119	138	180	230	270
BH	6.5	6.5	6.5	8.5	10.5	10.5	15	20	20
AJ	10.5	10.5	13.5	13.5	16.6	16.6	19	25	25
AK	6.5	6.5	8.5	8.5	10.5	10.5	12.5	16.5	16.5
BP	7	7	9	9	12	12	16	18	22
T	33	37	47	56	70	84	110	140	175

### ● 尺寸表 Dimension Sheet

符号 / 缸径 Symbol/Bore	32	40	50	63	80	100	125	160	200
S	48	50	62	75	94	112	140	180	220
T	33	37	47	56	70	84	110	140	170
DC	34	34	34	34	48	48	50	55	60
DD	14	14	15	15	20	20	25	30	30
DE	12	14	14	14	20	20	25	30	30
DJ	14	14	15	15	20	20	25	30	30
DQ	16	20	20	20	32	32	70	90	90

## CB双耳环/ CB

### ● 外形尺寸 Overall Dimension

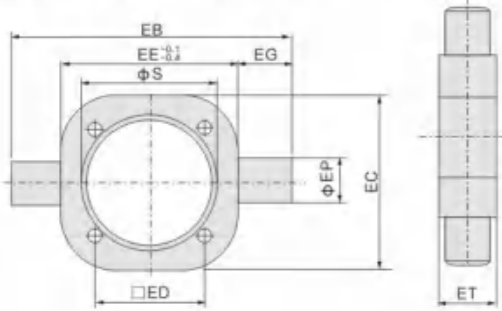


### ● 尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	32	40	50	63	80	100	125	160	200
CC	19	19	19	19	32	32	50	55	60
CD	5	5	3	3	8	8	25	30	30
CE	12	14	14	14	20	20	25	30	30
CJ	13	13	15	15	21	21	25	30	30
CP	16.3	20.5	20.3	20.3	32.3	32.3	70	90	90
CT	32	44	52	52	64	64	120	160	160
PA1	41	51.8	60.3	60.3	73.8	73.8	130	170	170
PB1	33.5	45.8	54	54	65.5	65.5	121.5	161.5	161.5
S	48	50	62	75	94	112	140	180	220
T	33	37	47	56	70	84	110	140	175

## TC中摆 / TC

### ● 外形尺寸 Overall Dimension

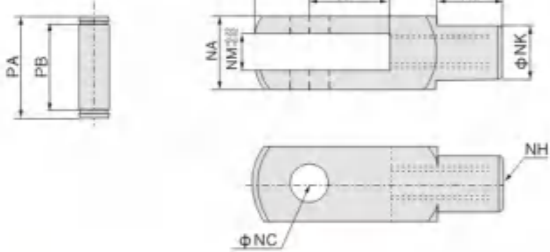


### ● 尺寸表 Dimension Sheet

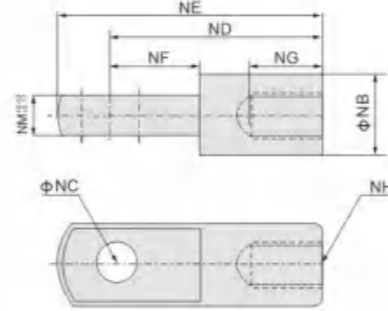
符号/缸径 Symbol/Bore	40	50	63	80	100	125	160	200
EB	113	126	138	164	182	210	264	336
EC	63	76	88	114	132	160	200	240
ED	37	47	56	70	84	110	140	175
EE	63	76	88	114	132	160	200	240
EG	25	25	25	25	25	25	32	48
EP	25	25	25	25	25	25	32	38
ET	30	30	30	30	30	30	38	44
S	45.5	55.5	68.5	87.5	107.5	134.5	172.5	212.5

## Y,I接头 / Y,I

### Y型/Type



### I型/Type

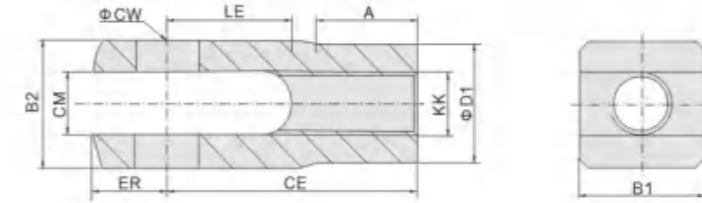


### ● 尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NM	NP	NQ	PA	PB
32	19	20	10	40	52	15	20	M10×1.25	12	18	10	20	52	26.2	20
40	25.4	24	12	48	67	24	20	M12×1.25	20	23	12	24	62	32.8	26.5
50	32	32	16	64	89	32	23	M16×1.5	22	30	16	32	83	39.3	33
63	32	32	16	64	89	32	23	M16×1.5	22	30	16	32	83	39.3	33
80	44.4	40	20	80	112	40	30	M20×1.5	30	39	20	40	105	53.3	45
100	44.4	40	20	80	112	40	30	M20×1.5	30	39	20	40	105	53.3	45

## ● Y形接头

### CK Type Y Knuckle

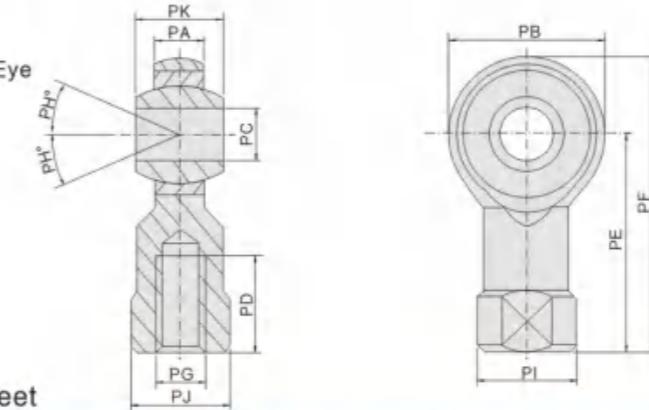


### ● 尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	KK	A	B1	B2	CE	CW	CM	D1	ER	LE
20	M6×1	9.5	12	12	24	6	6	10	7	12
25	M8×1.25	13.5	16	16	32	8	8	14	10	16
32	M10×1.25	15.5	19	19	40	10	10	16	12	20
40	M12×1.25	20.5	24	24	48	12	12	20	14	24
50/63	M16×1.5	26	32	32	64	16	16	30	19	32
80/100	M20×1.5	30	40	40	80	20	20	39	25	39.5

## ● PHSA鱼眼接头

### PHSA Universal Piston Rod Eye

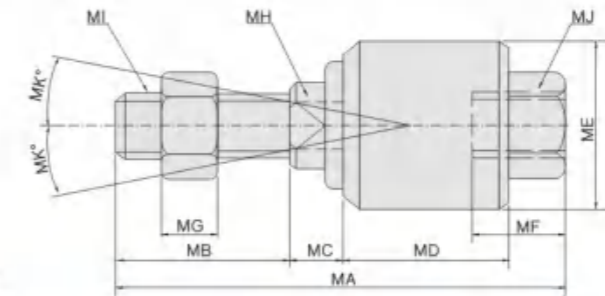


### ● 尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK
32	11	26	10	20	43	56	M10×1.25	13	19	17	14
40	12	32	12	24	50	66	M12×1.25	13	22	19	16
50	15	40	16	28	64	84	M16×1.5	15	27	22	21
63	15	40	16	28	64	84	M16×1.5	15	27	22	21
80	18	46	20	35	77	100	M20×1.5	15	34	30	25
100	18	46	20	35	77	100	M20×1.5	15	34	30	25

## ● FDJT浮动接头

### FDJT Piston Floating Joint



### ● 尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK
32	58	22	7	21	26	11.5	7	10	M10×1.25	M10×1.25	12
40	58	22	8	21	28	11.5	8	12	M12×1.25	M12×1.25	12
50	90	27	10	41	44.5	20	10	17	M16×1.5	M16×1.5	7
63	90	27	10	41	44.5	20	10	17	M16×1.5	M16×1.5	7
80	102	29	13	46	53	24	13	22	M20×1.5	M20×1.5	10
100	102	29	13	46	53	24	13	22	M20×1.5	M20×1.5	10



MBB63x100

### ● 订购码 Ordering Code

<b>MB</b>	<b>50</b>	<b>50</b>	<b>S</b>	<b>LB</b>
系列代号 Series Code	缸径 Bore	行程 Stroke	磁石代号 Magnet	固定形式 Mountings
日本标准复动型 MB Standard Double Action Type			空白: 标准型 S: 内置磁环 Blank: Without Magnet S: With Magnet	空白:基本型 Blank: Basic mounting LB:前后固定型 LB:Front & Back Fixed Type FA:前盖固定型(前法兰) FA:Front Cover Fixed Type(Front Flange Type) FB:后盖固定型(后法兰) FB:Back Cover Fixed Type(Back Flange Type) CA:后盖固定型(单耳环) CA:Back Cover Fixed Type(Single Earring) CB:后盖固定型(双耳环) CB:Back Cover Fixed Type(Double Earring)

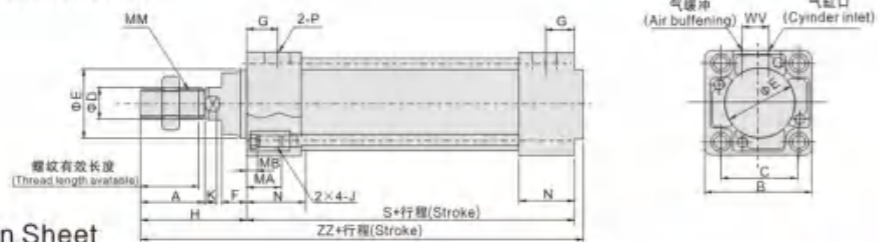
### ● 规格 Specification

缸径/Cylinder Diameter	32	40	50	63	80	100
工作介质/Working Medium	空气/Air					
动作型式/Motion Pattern	双动型/Double Acting					
保证耐压/Ensured Pressure Resistance	15.3kgf/cm <sup>2</sup> (1.5MPa)					
最高使用压力/Max.Pressure	10.2kgf/cm <sup>2</sup> (1.0MPa)					
最低使用压力/Min.Pressure	0.5kgf/cm <sup>2</sup> (0.05MPa)					
环境和流体温度/Environment and Fluid Temp	-10~60°C					
活塞速度/Piston Velocity	50~500mm/s					
缓冲/Buffering	气缓冲/Air Buffering					
行程公差/Stroke Tolerance	-0~250 <sup>+1.0</sup> <sub>0</sub>	251~1000 <sup>+1.4</sup> <sub>0</sub>	1001~1500 <sup>+1.4</sup> <sub>0</sub>	1501~2000 <sup>+1.4</sup> <sub>0</sub>	2001~2500 <sup>+1.4</sup> <sub>0</sub>	2501~3000 <sup>+1.4</sup> <sub>0</sub>
接管口径/Port Size	G1/8"	G1/4"	G3/8"	G1/2"		

### ● 行程 Srple

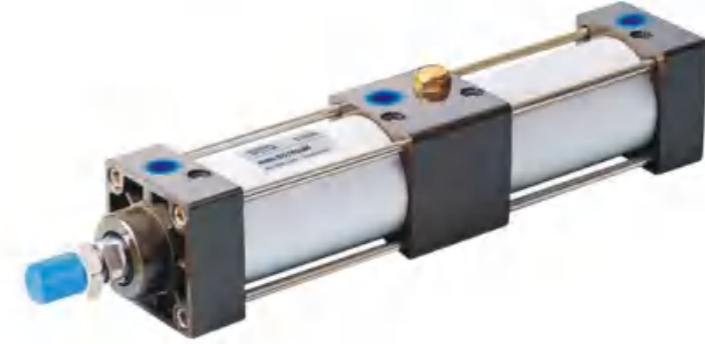
内径/Bore(mm)	标准行程/Standard Stroke
32	25,50,75,100,125,150,175,200 250,300,350,400,450,500
40	25,50,75,100,125,150,175,200 250,300,350,400,450,500
50	25,50,75,100,125,150,175,200 250,300,350,400,450,500,600
63	25,50,75,100,125,150,175,200 250,300,350,400,450,500,600
80	25,50,75,100,125,150,175,200 250,300,350,400,450,500,600,700,750
100	25,50,75,100,125,150,175,200 250,300,350,400,450,500,600,700,750

### ● 外形尺寸 Overall Dimension



### ● 尺寸表 Dimension Sheet

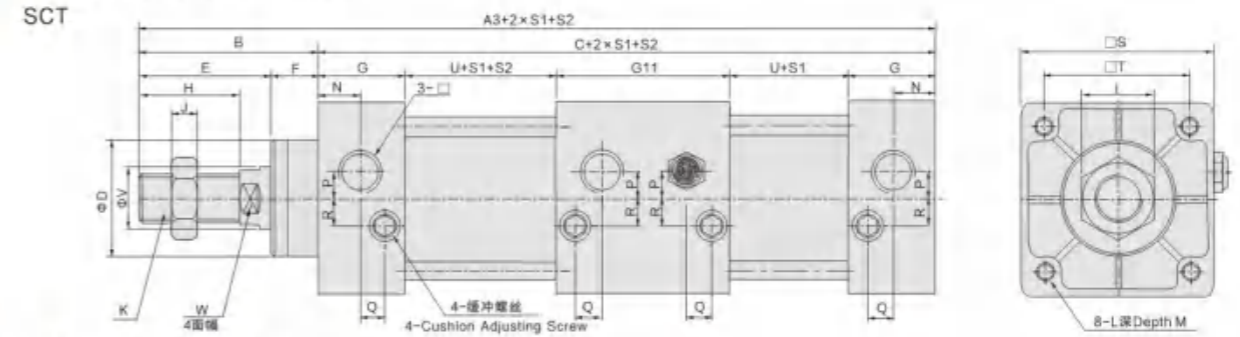
缸径 Diameter	行程范围 Stroke Range	螺纹有效长度 Thread Length Available	A	B	C	ΦD	ΦE	F	G	MA	MB	J	K	MM	N	P	S	V	W	H	ZZ
32	~500	19.5	22	46	32.5	12	30	13	13	16	4	M6 × 1.0	6	M10 × 1.25	27	1/8	84	4	6.5	47	135
40	~500	27	30	52	38	16	35	13	14	16	4	M6 × 1.0	6	M14 × 1.25	27	1/4	84	4	9	51	139
50	~600	32	35	65	46.5	20	40	14	15.5	16	5	M8 × 1.25	7	M18 × 1.5	31.5	1/4	94	5	10.5	58	156
63	~600	32	35	75	56.5	20	45	14	16.5	16	5	M8 × 1.25	7	M18 × 1.5	31.5	3/8	94	9	12	58	156
80	~750	37	40	95	72	25	45	20	19	16	5	M10 × 1.5	10	M22 × 1.5	38	3/8	114	11.5	14	72	190
100	~750	37	40	114	89	30	55	20	19	16	5	M10 × 1.5	10	M26 × 1.5	38	1/2	114	17	15	72	190



### ● 订购码 Ordering Code

<b>SCT</b>	<b>63</b>	<b>30</b>	<b>30</b>	<b>S</b>	<b>LB</b>
型号 Series	缸径 Bore	行程 1 Stroke 1	行程 2 Stroke 2	磁石代号 Magnet	固定形式 Mountings
SCT: 多位置气缸 SCT: Multi-position cylinder	32 40 50 63 80 100 125			S: 附磁石 空白: 不附磁石 S: With magnet Blank: Without magnet	空白: 基本型 Blank: Basic mounting LB: 前后固定型 LB: Front & Back Fixed Type FA: 前盖固定型 FA: Front Cover Fixed Type FB: 后盖固定型 FB: Back Cover Fixed Type CA: 后盖单耳固定型 CA: Back Cover Fixed Type(Single Earring) CB: 后盖双耳固定型 CB: Back Cover Fixed Type(Double Earring)

### ● 外形尺寸 Overall Dimension



### ● 尺寸表 Dimension Sheet

内径符号 Bore/ Symbol	A3	B	C	D	E	F	G	G1	H	I	J	K
32	233	47	186	28	32	15	27.5	55	22	17	6	M10 × 1.25
40	235	49	186	32	34	15	27.5	55	24	17	7	M12 × 1.25
50	243	57	186	38	42	15	27.5	55	32	23	8	M16 × 1.5
63	247	57	190	38	42	15	27.5	55	32	23	8	M16 × 1.5
80	291	75	216	47	54	21	33	66	40	26	10	M20 × 1.5
100	315	75	240	47	54	21	33	78	40	26	10	M20 × 1.5
125	393.5	103.5	290	60	72	31.5	40	80	54	40	10	M27 × 2

内径符号 Bore/ Symbol	L	M	N	O	P	Q	R	S	T	V	U	W
32	M6 × 1	9.5	13.7	G1/8	3.5	7.5	7	45	33	12	38	10
40	M6 × 1	9.5	13.5	G1/4	6	8.2	9	50	37	16	38	14
50	M6 × 1	9.5	13.5	G1/4	8.5	8.2	9	62	47	20	38	17
63	M8 × 1.25	9.5	13.5	G3/8	7	8.2	8.5	75	56	20	40	17
80	M10 × 1.5	11.5	16.5	G3/8	10	9.5	14	94	70	25	42	22
100	M10 × 1.5	11.5	16.5	G1/2	10	9.5	14	112	84	25	48	22
125	M12 × 1.75	15.5	16.5	G1/2	10	10	11	140	110	32	65	27



### ● 订购码 Ordering Code

DSN	U	20	×	50	-	25	-	LB
系列 Series	系列代码 Series Code	缸径 Bore		行程 Stroke		可调行程 Adjustable Stroke		固定形式 Mountings
DSN: 复动型	空白: 摆尾型	16						空白: 基本型
DSND: 双轴复动型	CM: 圆尾型	20						LB: 前后固定型
DSNJ: 双轴可调型	U: 平尾型	25						FA: 前盖固定型
DSN: Double acting	Blank: Standard with eye mounting	32						FB: 后盖固定型
DSND: Double-shaft, double acting	CM: Round rear cover	40						SDB: 后盖摇摆式
DSNJ: Double-shaft with adjustable stroke	U: Flat rear cover							Blank: Basic mountings
								LB: Front and back mounting
								FA: Front mounting flange
								FB: Rear mounting flange
								SDB: Back cover fixed type

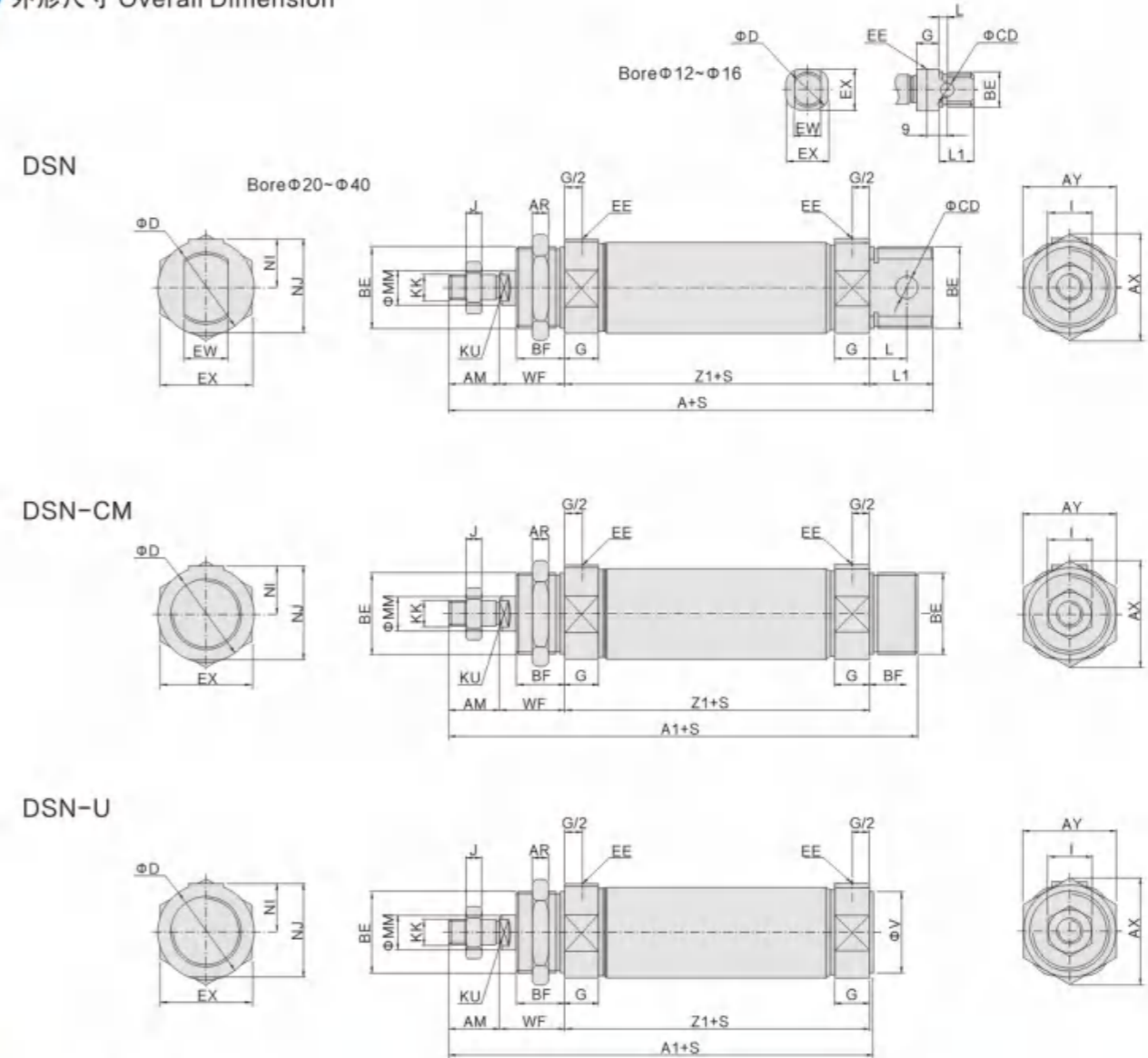
### ● 规格 Specification

内径 Bore (mm)	12	16	20	25	32	40
动作型式 Operation	复动型 Double Action Type					
工作介质 Working Medium	空气 Air					
固定型式 Mountings	基本型/Basic Type, FA型/Type, FB型/Type, SDB/Type					
使用压力范围 Operating Pressure Range	1~9.0MPa					
保证耐压力 Proof Pressure	13.5MPa					
使用温度范围°C Operating Temperature Range	0~70 °C					
使用速度范围 Operating Speed Range	50~800 mm/s					
缓冲型式 Cushion	缓冲垫片 Gasket Cushioning		可调缓冲 Adjust Buffer			
接管口径 Port Size	M5×0.8			G1/8"		

### ● 行程 Stroke

内径 Bore (mm)	标准行程 / Standard Stroke										最大行程 Max.Stroke	容许行程 Permissible Stroke				
12	25	50	75	80	100	125	150	160	175	200	300	500				
16	25	50	75	80	100	125	150	160	175	200	300	500				
20	25	50	75	80	100	125	150	160	175	200	250	300				
25	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500

### ● 外形尺寸 Overall Dimension



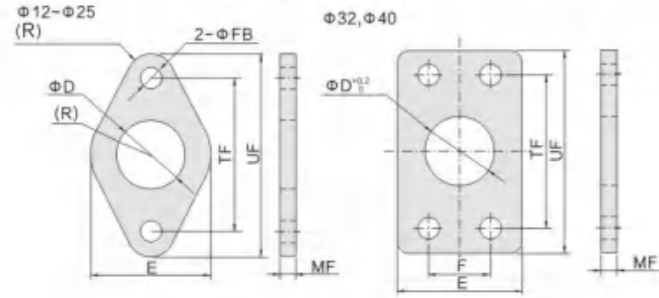
### ● 尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	A	A1	A2	AM	BE	BF	CD	D	EE	EX	EW	G	KK
12	103	103	87	16	M16×1.5	16	6	21	M5	19	12	10	M6×1.0
16	112	112	96	16	M16×1.5	16	6	21	M5	19	12	10	M6×1.0
20	125	121	105	20	M22×1.5	18	8	30	G1/8	27	16	15	M8×1.25
25	136	134	116	22	M22×1.5	20	8	30	G1/8	27	16	16	M10×1.25
32	150	143	125	23	M27×2.0	20	10	38	G1/8	35	20	16	M10×1.25
40	150	143	125	23	M33×2.0	20	10	45	G1/8	42	20	16	M14×1.5

符号/缸径 Symbol/Bore	KU	V	L	L1	MM	NI	NJ	WF	Z1	X	J	AR	I	AX	AY
12	5	-	4	16	6	-	-	22	49	-	5	6	10	24	27.5
16	5	-	9	16	6	-	-	22	58	-	5	6	10	24	27.5
20	7	22	12	22	8	15	28.5	24	59	2	6	7	12	33	29
25	9	22	12	22	10	15	28.5	28	64	2	6	7	17	33	29
32	10	27	15	27	12	19	36.5	28	72	2	6	12	17	41	36
40	14	33	15	27	16	22.5	43.5	28	72	2	8	11.5	22	51	45

## FA、FB

### ● 外形尺寸 Overall Dimension

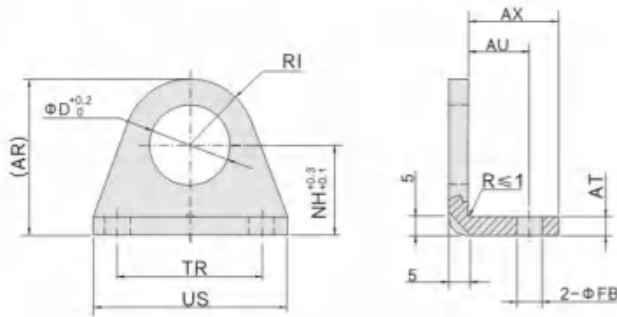


### ● 尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	12	16	20	25	32	40
E	30	30	40	40	45	50
FB	6	6	7	7	7	9
MF	4	4	5	5	5	5
F	/	/	/	/	20	30
TF	40	40	50	50	60	80
UF	53	53	66	66	80	100
D	16.3	16.3	22.3	22.3	27.3	33.3

## LB脚架/LB

### ● 外形尺寸 Overall Dimension

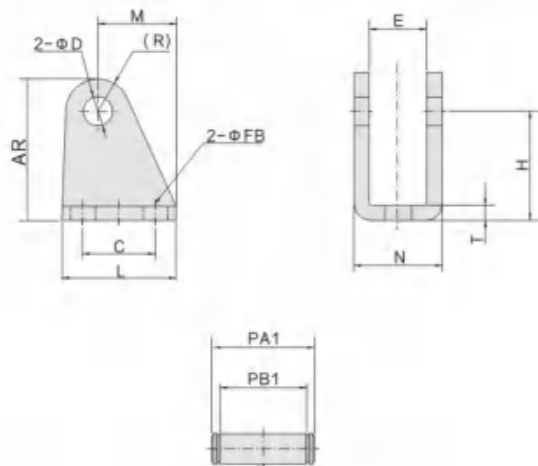


### ● 尺寸表 Dimension Sheet

符号/缸径 Symbol/Bore	12	16	20	25	32	40
AT	4	4	5	5	5	5
AU	14	14	17	17	15	20
AX	20	20	25	25	25	30
FB	6	6	7	7	7	9
NH	20	20	25	25	35	40
TR	32	32	40	40	40	50
US	42	42	54	54	55	75
D	16.3	16.3	22.3	22.3	27.3	33.3
AR	32.5	32.5	42	42	56	64
RI	R12.5	R12.5	R17	R17	R21	R24

## SDB后盖摇摆架/SDB

### ● 外形尺寸 Overall Dimension



### ● 尺寸表 Dimension Sheet

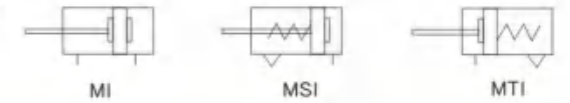
符号/缸径 Symbol/Bore	12	16	20	25	32	40
C	15	15	20	20	25	25
FB	6	6	7	7	9	9
H	27	27	30	30	40	40
L	25	25	32	32	40	40
M	18	18	22	22	27.5	27.5
N	18	18	24	24	28	28
E	12	12	16	16	20	20
T	3	3	4	4	4	4
D	6	6	8	8	10	10
AR	34	34	39	39	52	52
PA1	23	23	30	30	34	34
PB1	18	18	24	24	28	28



### ● 订购码 Ordering Code

MI	10	50	S	CA	LB	MT
型号 Series Code	缸径 Bore	行程 Stroke	磁石代号 Magnet	后盖型式 Back Cover	固定型式 Fixed Type	感应器类型 Sensor
MI: 迷你气缸(复动型) MSI: 迷你气缸(单动伸出型) MTI: 迷你气缸(单动引入型) MI: Mini Cylinder(Double Action) MSI: Mini Cylinder(Single Action Extrusion type) MTI: Mini Cylinder(Single Action Drawing-in Type)			S: 附磁石 空白: 不附磁石 S: With magnet Blank: Without magnet	空白: 基本型 CA: 摆尾型 U: 径向进气型 Blank: Basic Type CA: Swinging Type U: Radial air inlet Type	空白: 基本型 FA: 前盖固定型 LB: 前后固定型 SDB: 后盖摇摆式 Blank: Basic Type LB: Front And Back Fixed Type FA: Front Cover Fixed Type SDB: Back Cover Swinging Type	XG-03型/Type 感应器固定带 Sensor fastening

### ● 图形符号 Symbol



### ● 规格 Specification

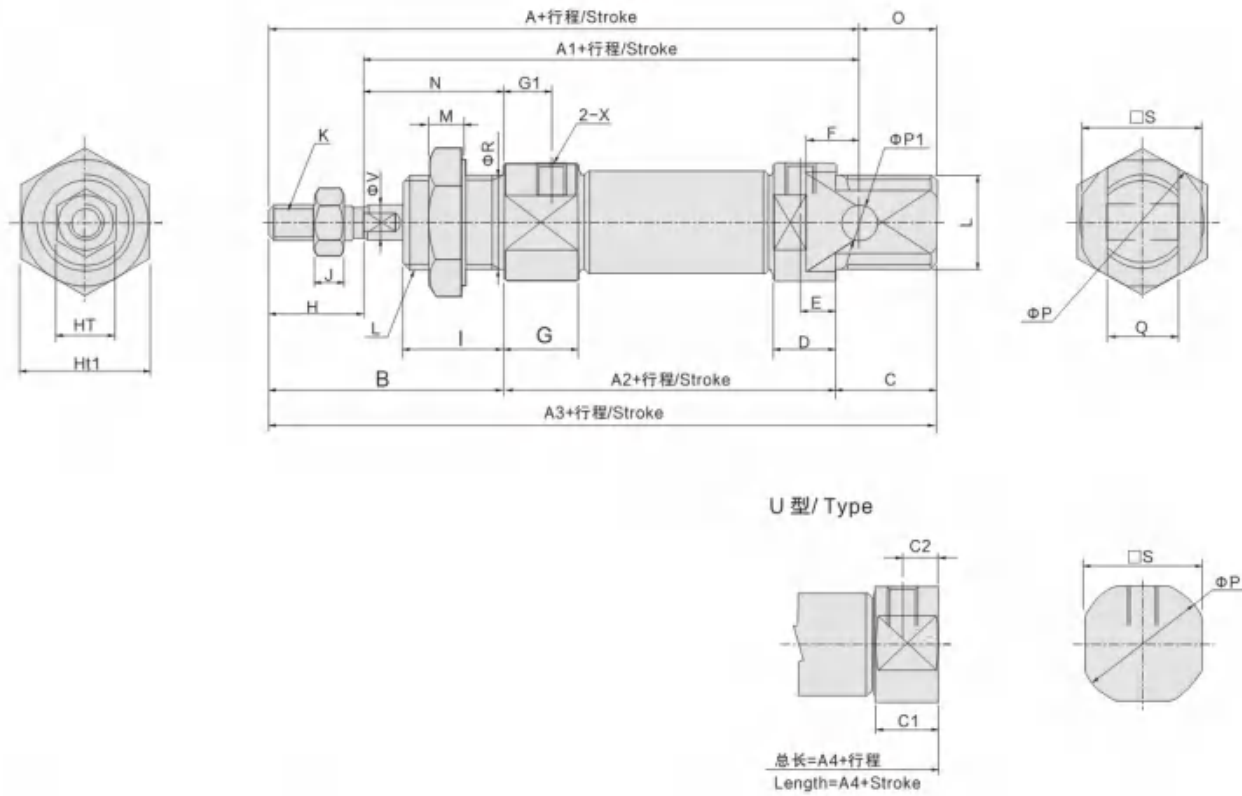
内径 Bore(mm)	8	10	12	16	20	25
动作形式 Motion Pattern	复动型、单动伸出型、单动引入型/Double Action or Single Action Extrusion type or Single Action Drawing-in Type					
工作介质 Working Medium	空气/Air					
使用压力范围 Operating Voltage Range	复动型 Double Action			0.05~0.7 MPa		
	单动型 Single Action			0.2~0.7 MPa		
保证耐压力 Ensured Pressure Resistance	1.5 MPa					
使用温度范围 Operating Temperature Range	-5~80°C					
使用速度范围 Operating Speed Range	50~750 mm/s					
缓冲型式 Buffer Type	防撞垫/Buffer Spacer					
接管口径 Port Size	M5 x0.8				PT1/8	

### ● 行程 Stroke

内径 Bore(mm)	标准行程/Standard Stroke																					
复动型 Double Action	8	10	15	20	25	30	40	50	60	75	80	100	125	150								
	10	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200					
	12	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250				
	16	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300			
	20	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	300	350	400	450
单动型 Single Action	8~10	10	15	20	25	30	40	50														
	12~25	10	15	20	25	30	40	50	60	75												

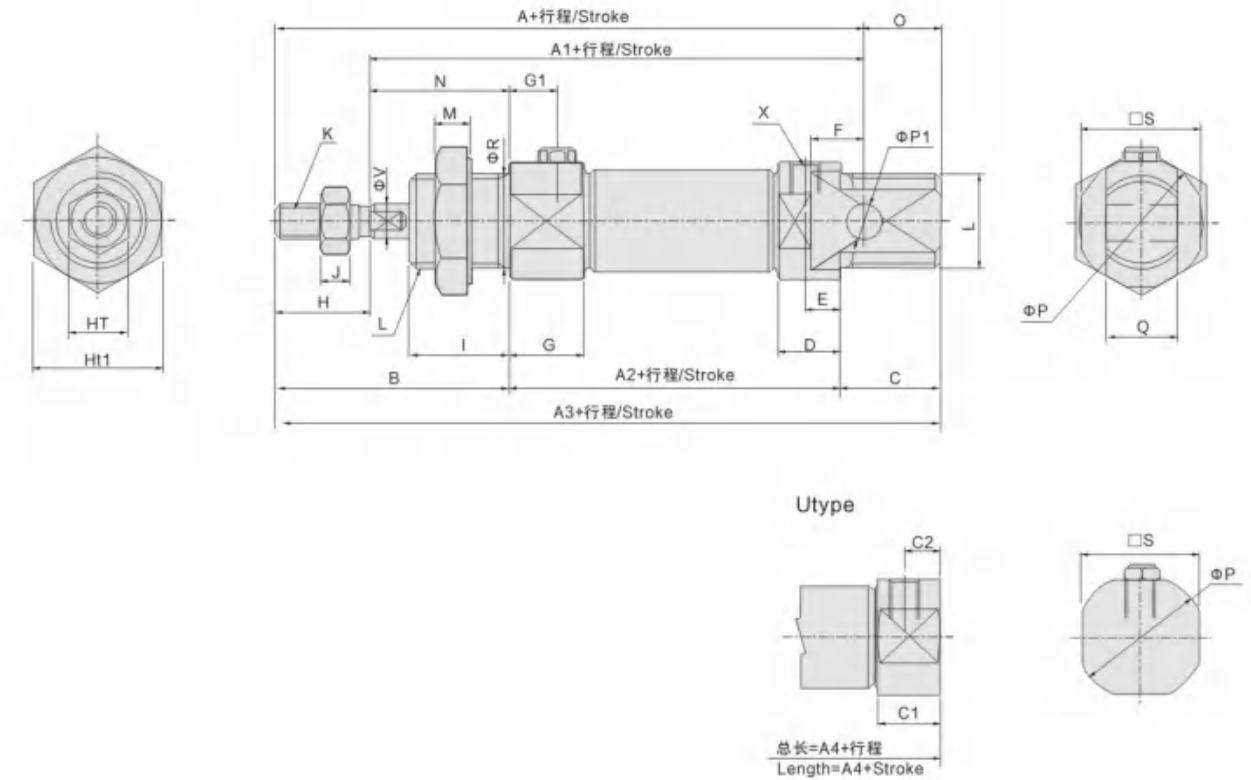
● 外形尺寸 Overall Dimension

MI 系列/Series  
CA Type



● 外形尺寸 Overall Dimension

MSI 系列/Series  
CA Type



● 尺寸表 Dimension Sheet

缸径/符号 Bore/Symbol	A	A1	A2	A3	A4	B	C	C1	C2	D	E	F	G	G1	H	I	J
8	76	64	46	86	74	28	12	9.5	5	9.5	5	5.3	11.5	7	12	12	2.5
10	76	64	46	86	73.5	28	12	9.5	5	10	5.5	5.3	10	5.5	12	12	2.5
12	91	75	50	105	88	38	17	10.5	6	10.5	6	9	12.5	8	16	17	5
16	98	82	56	111	94	38	17	10.5	6	10.5	6	9	12.5	8	16	17	5
20	115	95	62	126	106	44	20	15	8	15	9	12	15	8	20	20	6
25	126	104	65	137	115	50	22	15	8	15	8	12	15	8	22	22	6

缸径/符号 Bore/Symbol	K	L	M	N	O	P	P1	Q	R	S	T	T1	X	V
8	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
10	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
12	M6×1.0	M16×1.5	6	22	14	20	6	12	16	18	10	22	M5×0.8	6
16	M6×1.0	M16×1.5	6	22	13	22	6	12	16	20	10	22	M5×0.8	6
20	M8×1.25	M22×1.5	7	24	11	29	8	16	22	26	12	29	PT1/8	8
25	M10×1.25	M22×1.5	7	28	11	33.5	8	16	22	30	17	29	PT1/8	10

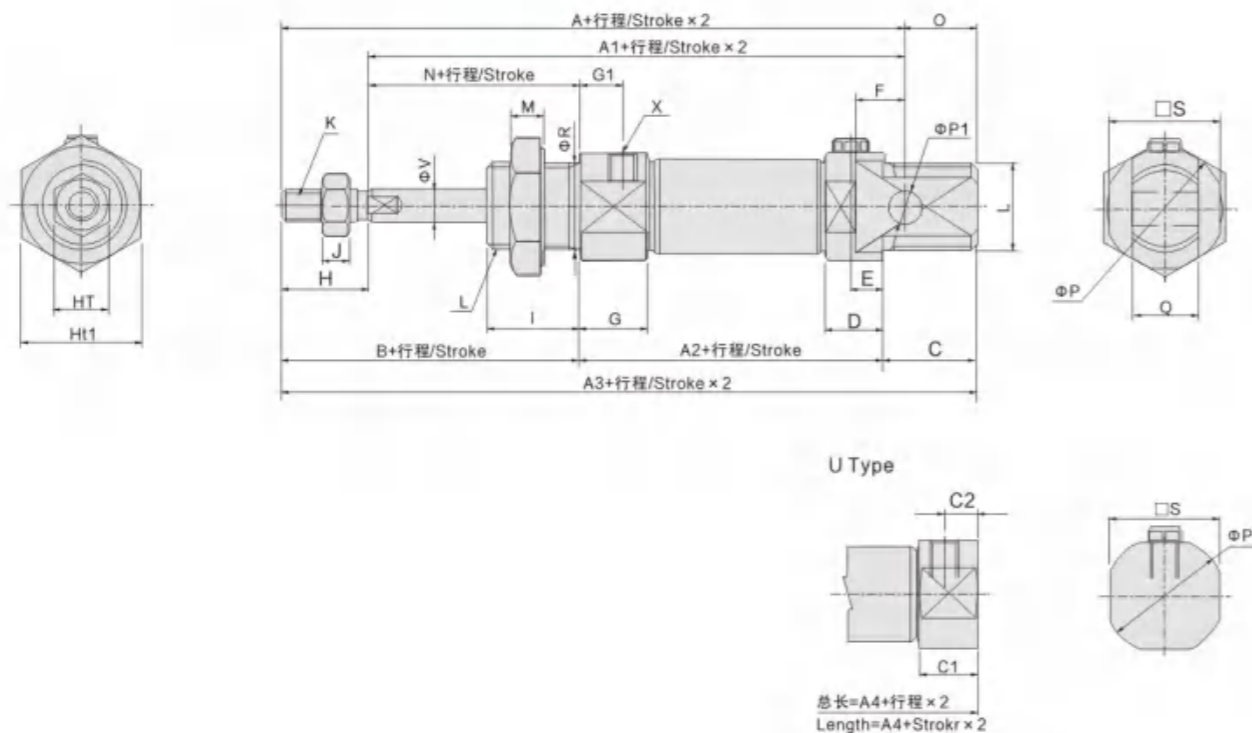
● 尺寸表 Dimension Sheet

缸径/符号 Bore/Symbol	A		A1		A2		A3		A4		B	C	C1	C2	D	E	F	G	C1
	S≤50	S>50	S≤50	S>50	S≤50	S>50	S≤50	S>50	S≤50	S>50									
8	76	-	64	-	46	-	86	-	174	-	28	12	9.5	5	9.5	5	5.3	11.5	7
10	76	-	64	-	46	-	86	-	73.5	-	28	12	9.5	5	10	5.5	5.3	10	5.5
12	91	116	75	100	50	75	105	130	88	113	38	17	10.5	6	10.5	6	9	12.5	8
16	98	123	82	107	56	81	111	136	94	119	38	17	10.5	6	10.5	6	9	12.5	8
20	115	140	95	120	62	87	126	151	106	131	44	20	15	8	15	8	12	15	8
25	126	151	104	129	65	90	137	162	115	140	50	22	15	8	15	8	12	15	8

缸径/符号 Bore/Symbol	H	I	J	K	L	M	N	O	P	P1	Q	R	S	T	T1	X	V
8	12	12	2.5	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
10	12	12	2.5	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
12	16	17	5	M6×1.0	M16×1.5	6	22	14	20	6	12	16	18	10	22	M5×0.8	6
16	16	17	5	M6×1.0	M16×1.5	6	22	13	22	6	12	16	20	10	22	M5×0.8	6
20	20	20	6	M8×1.25	M22×1.5	7	24	11	29	8	16	22	26	12	29	PT1/8	8
25	22	22	6	M10×1.25	M22×1.5	7	28	11	33.5	8	16	22	30	17	29	PT1/8	10

● 外形尺寸 Overall Dimension

MTI 系列/Series  
CA Type



● 尺寸表 Dimension Sheet

缸径/符号 Bore/Symbol	A			A1			A2			A3			A4			B	C	C1	C2	D	E	F
	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75							
8	93	103	-	81	91	-	63	73	-	103	113	-	91	101	-	28	12	9.5	5	9.5	5	5.3
10	93	103	-	81	91	-	63	73	-	103	113	-	90.5	100.5	-	28	12	9.5	5	10	5.5	5.3
12	108	118	133	92	102	117	67	77	92	122	132	147	105	115	130	38	17	10.5	6	10.5	6	9
16	115	125	140	99	109	124	73	83	98	128	138	153	111	121	136	38	17	10.5	6	10.5	6	9
20	132	142	157	112	122	137	79	89	104	143	153	168	123	133	148	44	20	15	8	15	8	12
25	142	152	168	120	130	146	81	91	107	153	163	179	132	142	157	50	22	15	8	15	8	12

缸径/符号 Bore/Symbol	G	C1	H	I	J	K	L	M	N	O	P	P1	Q	R	S	T	T1	X	V
8	11.5	7	12	12	2.5	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
10	10	5.5	12	12	2.5	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	7	19	M5×0.8	4
12	12.5	8	16	17	5	M6×1.0	M16×1.5	6	22	14	20	6	12	16	18	10	22	M5×0.8	6
16	12.5	8	16	17	5	M6×1.0	M16×1.5	6	22	13	22	6	12	16	20	10	22	M5×0.8	6
20	15	8	20	20	6	M8×1.25	M22×1.5	7	24	11	29	8	16	22	25	12	29	PT1/8	8
25	15	8	22	22	6	M10×1.25	M22×1.5	7	28	11	33.5	8	16	22	30	17	29	PT1/8	10



● 订购码 Ordering Code

系列 Series	系列代码 Series Code	缸径 Bore	行程 Stroke	可调行程 Adjustable Stroke	磁石代号 Magnet	固定形式 Mountings
MA: 复动型 MSA: 单动伸出型 MTA: 单动引入型 MAD: 双轴复动型 MAJ: 双轴可调型 MA: Double acting MSA: Single acting, sprung-out MTA: Single acting, sprung-in MAD: Double-shaft, double acting MAJ: Double-shaft with adjustable stroke	空白: 摆尾型 U: 平尾型 CM: 圆尾型 Blank: Swivelling tail U: Radial air inlet type CM: Round rear cover	16 20 25 32 40	25 50	25	S: 附磁石 空白: 不附磁石 S: With magnet Blank: Without magnet	空白: 基本型 LB: 前后固定型 FA: 前盖固定型 FB: 后盖固定型 SDB: 后盖摆摆式 Blank: Basic mountings LB: Front and back mounting FA: Front mounting flange FB: Rear mounting flange SDB: Back cover fixed type

● 规格 Specification

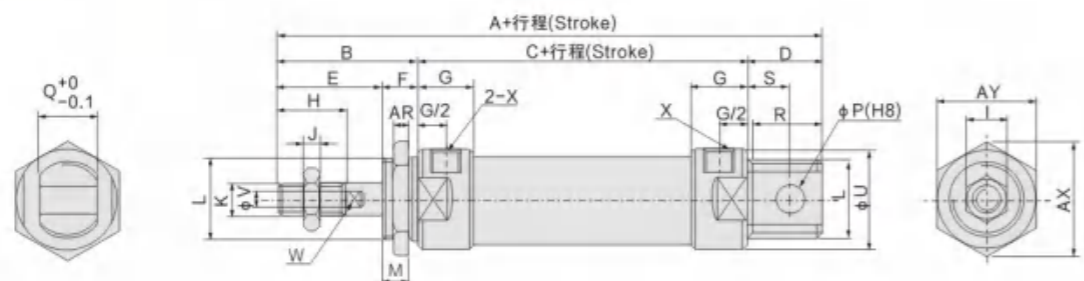
内径 Bore (mm)	16	20	25	32	40
动作型式 Operation	复动型 Double Action Type				
工作介质 Working Medium	空气 Air				
固定型式 Mountings	基本型/BasicType, FA型/Type, FB型/Type, SDB型/Type				
使用压力范围 Operating Pressure Range	1-9.0MPa				
保证耐压力 Proof Pressure	13.5MPa				
使用温度范围°C Operating Temperature Range	0-70 °C				
使用速度范围 Operating Speed Range	50-800 mm/s				
缓冲型式 Cushion	缓冲垫片 Gasket Cushioning				
接管口径 Port Size	M5×0.8		G1/8"		

● 行程 Stroke

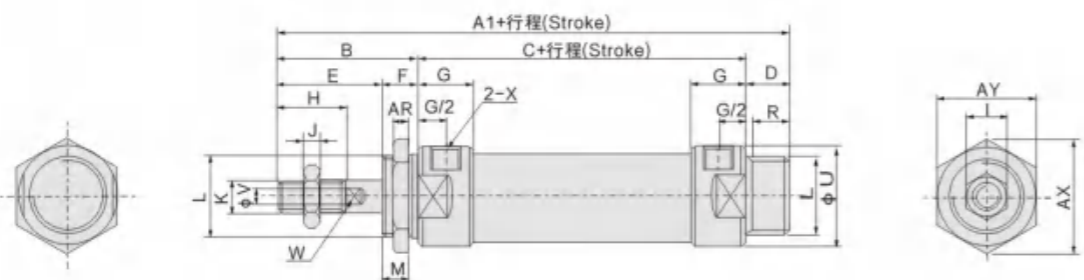
内径 Bore (mm)	标准行程 / Standard Stroke															最大行程 Max. Stroke	容许行程 Permissible Stroke	
16	25	50	75	80	100	125	150	160	175	200						300	500	
20	25	50	75	80	100	125	150	160	175	200	250	300				500	650	
25	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650

● 外形尺寸 Overall Dimension

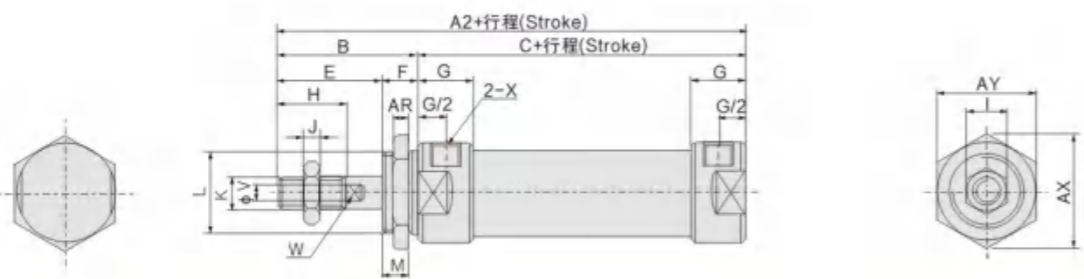
MA-CA



MA-CM



MA-U



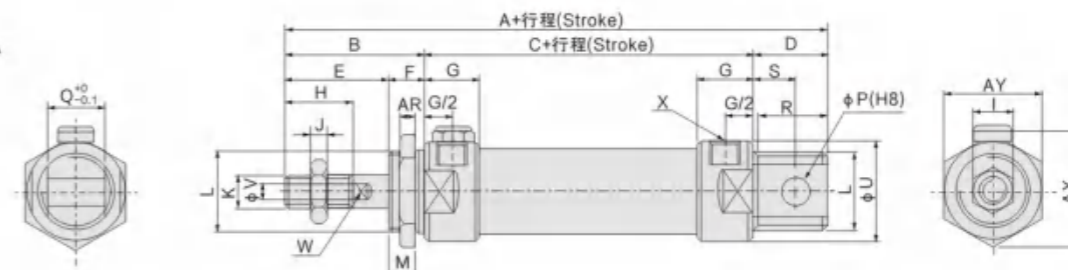
● 尺寸表 Dimension Sheet

内径/符号 Bore/symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	114	114	98	38	60	15	15	22	16	10	16	10	5	M6 × 1
20	137	128	116	40	76	21	12	28	12	16	20	12	6	M8 × 1.25
25	141	134	120	44	76	21	14	30	14	16	22	17	6	M10 × 1.25
32	147	134	120	44	76	27	14	30	14	16	22	17	6	M10 × 1.25
40	149	136	122	46	76	27	14	32	14	16.7	24	17	7	M12 × 1.25

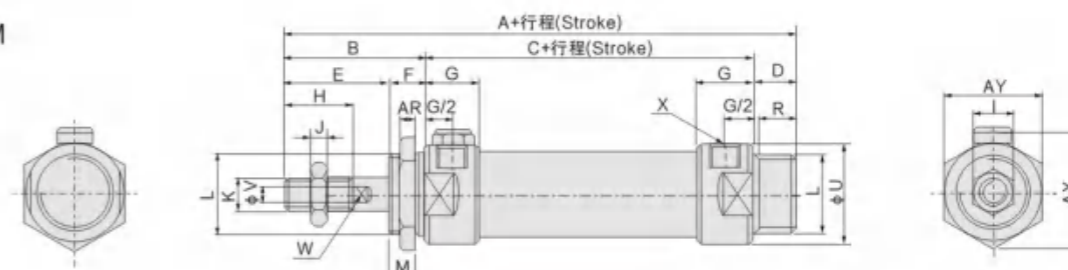
内径/符号 Bore/symbol	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16 × 1.5	14	6	12	14	14	9	21	6	5	M5	6	24	27.5
20	M22 × 1.5	10	8	16	19	12	12	27	8	6	G1/8"	7	33	29
25	M22 × 1.5	12	8	16	19	14	12	30	10	8	G1/8"	7	33	29
32	M24 × 2.0	12	10	16	25	14	15	35	12	10	G1/8"	8	37	32
40	M30 × 2.0	12	12	20	25	14	15	41.6	16	14	G1/8"	9	47	41

● 外形尺寸 Overall Dimension

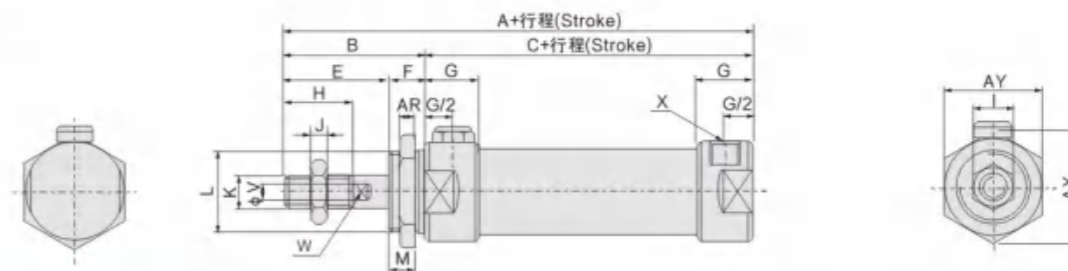
MSA-CA



MSA-CM



MSA-U



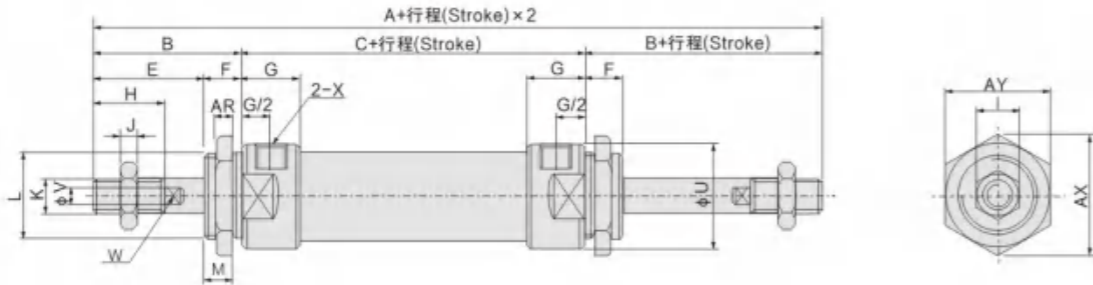
● 尺寸表 Dimension Sheet

符号 Symbol	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
内径Bore/行程stroke	0-50	51-100	0-50	51-100	0-50	51-100		0-50	51-100								
20	137	162	128	153	116	141	40	76	101	21	12	28	12	16	20	12	6
25	141	166	134	159	120	145	44	76	101	21	14	30	14	16	22	17	6
32	147	172	134	159	120	145	44	76	101	27	14	30	14	16	22	17	6
40	149	174	136	161	122	147	46	76	101	27	14	32	14	22	24	17	7

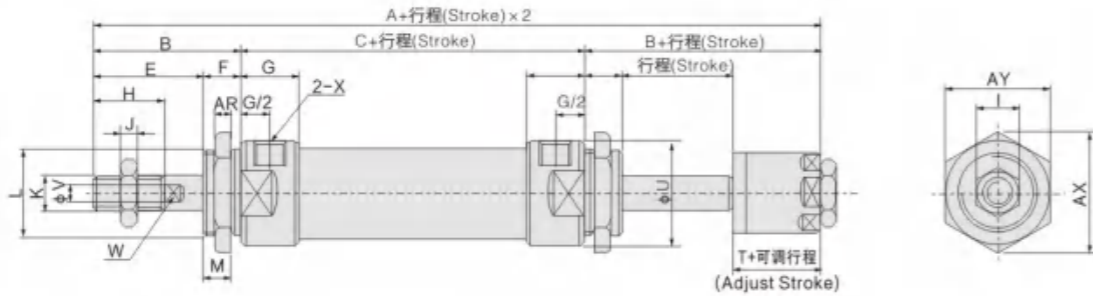
内径/符号 Bore/symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8 × 1.25	M22 × 1.5	10	8	16	19	12	12	27	8	6	G1/8"	7	33	29
25	M10 × 1.25	M22 × 1.5	12	8	16	19	14	12	30	10	8	G1/8"	7	33	29
32	M10 × 1.25	M24 × 2.0	12	10	16	25	14	15	35	12	10	G1/8"	8	37	32
40	M12 × 1.25	M30 × 2.0	12	12	20	25	14	15	41.6	16	14	G1/8"	9	47	41

### ● 外形尺寸 Overall Dimension

MAD



MAJ



### ● 尺寸表 Dimension Sheet

内径/符号 Bore/symbol	A	A1	B	C	E	F	G	H	I	J	K
20	156	153	40	70	28	12	16	20	12	6	M8 × 1.25
25	164	161	44	70	30	14	16	22	17	6	M10 × 1.25
32	164	161	44	70	30	14	16	22	17	6	M10 × 1.25
40	168	164	46	92	32	14	22	24	17	7	M12 × 1.25

内径/符号 Bore/symbol	L	M	U	V	W	X	AR	AX	AY	T
20	M22 × 1.5	10	29	8	6	G1/8"	7	33	29	19
25	M22 × 1.5	12	34	10	8	G1/8"	7	33	29	21
32	M24 × 1.5	12	39.5	12	10	G1/8"	8	37	32	21
40	M30 × 2.0	12	49.5	16	14	G1/4"	9	47	41	21



### ● 订购码 Ordering Code

MAL	□	20	×	50	25	S	LB
系列 Series	系列代码 Series Code	缸径 Bore	行程 Stroke	可调行程 Adjustable Stroke	磁石代号 Magnet	固定形式 Mountings	
MAL: 复动型	空白: 摆尾型	16			S: 附磁石	空白: 基本型	
MSAL: 单动伸出型	U: 平尾型	20			空白: 不附磁石	LB: 前后固定型	
MTAL: 单动引入型	CM: 圆尾型	25			S: With magnet	FA: 前盖固定型	
MADL: 双轴复动型	Blank: Swivelling tail	32			Blank: Without magnet	FB: 后盖固定型	
MAJL: 双轴可调型	U: Radial air inlet type	40				SDB: 后盖摇摆式	
MAL: Double acting	CM: Round rear cover					Blank: Basic mountings	
MSAL: Single acting, sprung-out						LB: Front and back mounting	
MTAL: Single acting, sprung-in						FA: Front mounting flange	
MADL: Double-shaft, double acting						FB: Rear mounting flange	
MAJL: Double-shaft with adjustable stroke						SDB: Back cover fixed type	

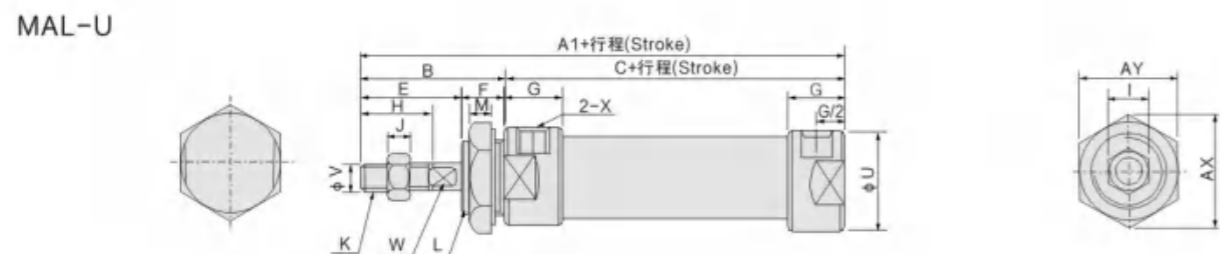
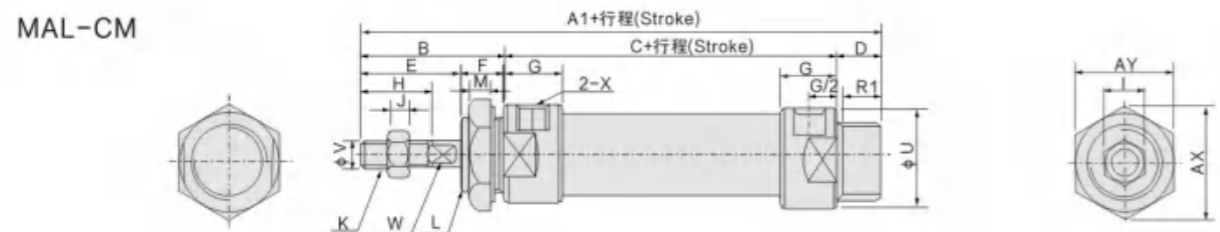
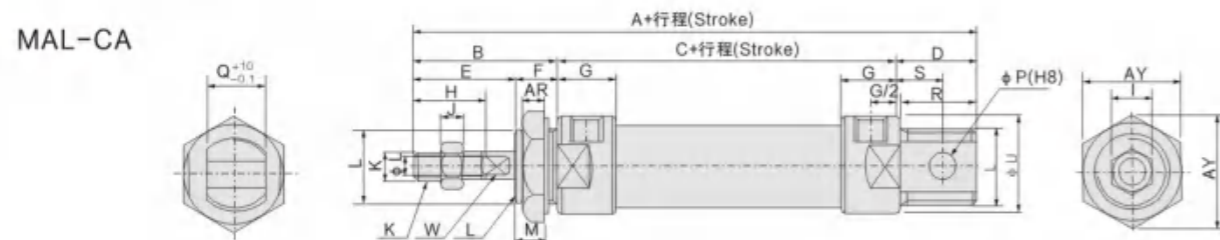
### ● 规格 Specification

内径 Bore (mm)	16	20	25	32	40
动作型式 Operation	复动型 Double Action Type				
工作介质 Working Medium	空气 Air				
固定型式 Mountings	基本型/Basic Type, FA型/Type, FB型/Type, SDB型/Type				
使用压力范围 Operating Pressure Range	1~9.0MPa				
保证耐压力 Proof Pressure	13.5MPa				
使用温度范围°C Operating Temperature Range	0~70 °C				
使用速度范围 Operating Speed Range	50~800 mm/s				
缓冲型式 Cushion	缓冲垫片 Gasket Cushioning				
接管口径 Port Size	M5 × 0.8	G1/8"			G1/4"

### ● 行程 Stroke

内径 Bore (mm)	标准行程 / Standard Stroke										最大行程 Max. Stroke	容许行程 Permissible Stroke						
16	25	50	75	80	100	125	150	160	175	200	300	500						
20	25	50	75	80	100	125	150	160	175	200	250	300	500	650				
25	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650

● 外形尺寸 Overall Dimension

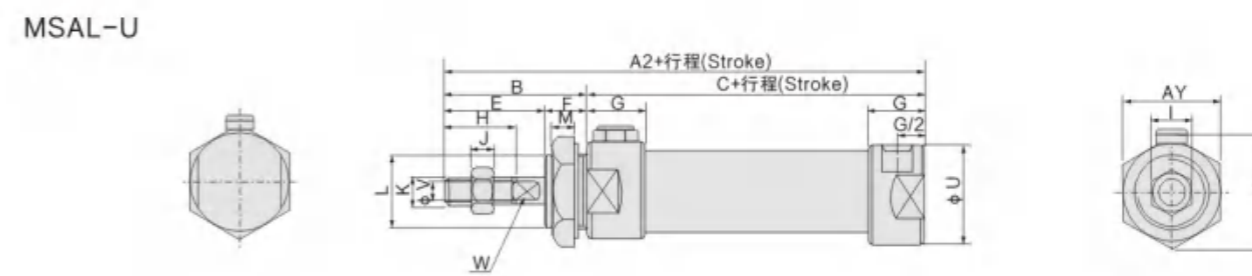
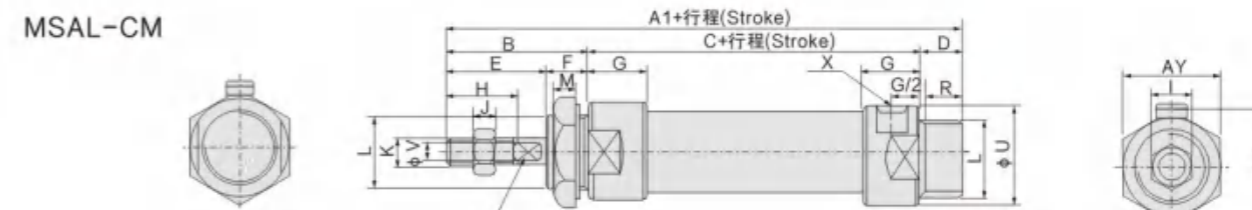
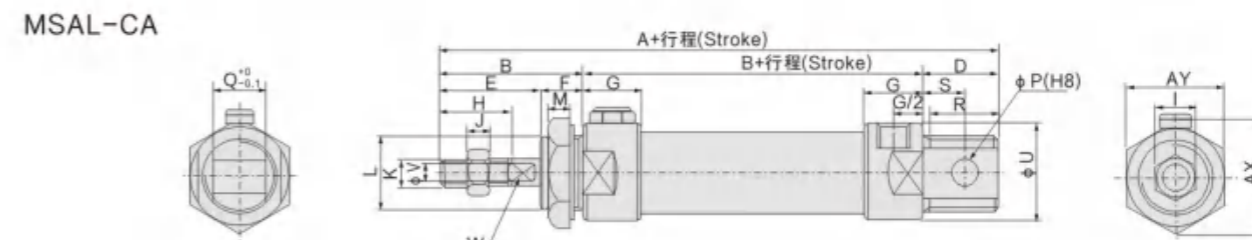


● 尺寸表 Dimension Sheet

内径/符号 Bore/symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	104	104	90	38	52	15	15	24	14	11	16	10	5	M6×1
20	131	122	110	40	70	21	12	28	12	16	20	12	6	M8×1.25
25	135	128	114	44	70	21	14	30	14	16	22	17	6	M10×1.25
32	141	125	114	44	70	27	14	30	14	16	22	17	6	M10×1.25
40	165	152	138	46	92	27	14	32	14	22	24	17	7	M12×1.25

内径/符号 Bore/symbol	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16×1.5	8	6	12	13	13	6	20	6	/	M5	7	24	27.5
20	M22×1.5	10	8	16	19	12	12	29	8	6	G1/8"	7	33	29
25	M22×1.5	12	8	16	19	14	12	34	10	8	G1/8"	7	33	29
32	M24×2.0	12	10	16	25	14	15	39.5	12	10	G1/8"	8	37	32
40	M30×2.0	12	12	20	25	14	15	49.5	16	14	G1/4"	9	47	41

● 外形尺寸 Overall Dimension



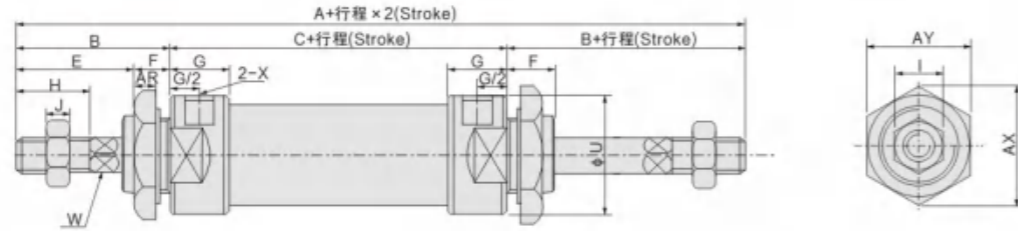
● 尺寸表 Dimension Sheet

符号 Symbol	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
内径/符号 Bore/symbol	0-50	51-100	0-50	51-100	0-50	51-100		0-50	51-100								
20	131	156	122	147	110	135	40	70	95	21	12	28	12	16	20	12	6
25	135	160	128	153	114	139	44	70	95	21	14	30	14	16	22	17	6
32	141	166	128	153	114	139	44	70	95	27	14	30	14	16	22	17	6
40	165	190	152	177	138	163	46	92	117	27	14	32	14	22	24	17	7

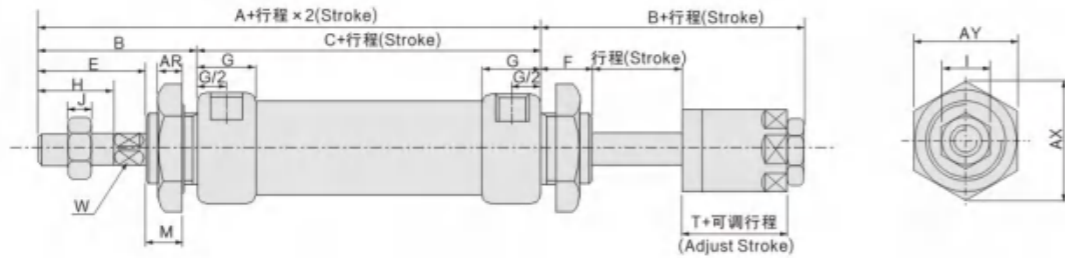
内径/符号 Bore/symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8×1.25	M22×1.5	10	8	16	19	10	12	29	8	6	G1/8"	7	33	29
25	M10×1.25	M22×1.5	12	8	16	19	14	12	34	10	8	G1/8"	7	33	29
32	M10×1.25	M24×2.0	12	10	16	25	14	15	39.5	12	10	G1/8"	8	37	32
40	M12×1.25	M30×2.0	12	12	20	25	14	15	49.5	16	14	G1/4"	9	47	41

● 外形尺寸 Overall Dimension

MALD



MALJ



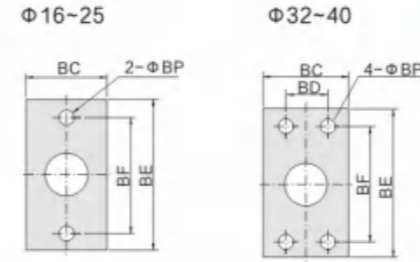
● 尺寸表 Dimension Sheet

内径/符号 Bore/symbol	A	A1	B	C	E	F	G	H	I	J	K
20	131	122	40	70	28	12	16	20	12	6	M8×1.25
25	135	128	44	70	30	14	16	22	17	6	M10×1.25
32	141	128	44	70	30	14	16	22	17	6	M10×1.25
40	165	152	46	92	32	14	22	24	17	7	M12×1.25

内径/符号 Bore/symbol	L	M	U	V	W	X	AR	AX	AY	T
20	M22×1.5	10	29	8	6	G1/8"	7	33	29	19
25	M22×1.5	12	34	10	8	G1/8"	7	33	29	21
32	M24×2.0	12	39.5	12	10	G1/8"	8	37	32	21
40	M30×2.0	12	49.5	16	14	G1/4"	9	47	41	21

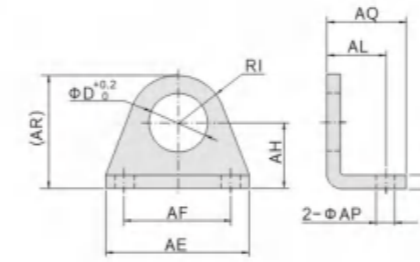
● 外形尺寸 Overall Dimension

FA



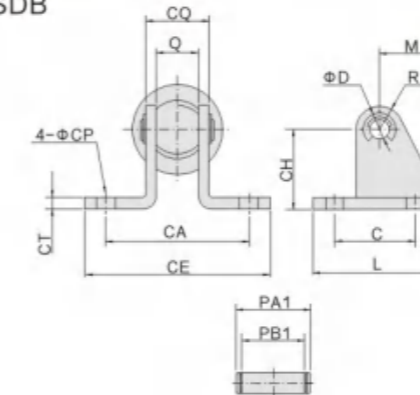
● 外形尺寸 Overall Dimension

LB



● 外形尺寸 Overall Dimension

SDB



● 尺寸表 Dimension Sheet

符号/Symbol	BC	BD	BE	BF	BP
16	26	-	52	40	5.5
20	33	-	64	50	6.5
25	33	-	64	50	6.5
32	47	33	72	58	6.5
40	50	36	84	70	6.5

● 尺寸表 Dimension Sheet

内径/符号 Bore/Symbol	AT	AL	AQ	AP	AH	AF	AE	D	AR	RI
16	3	14	20	5.5	19.5	32	44	16	33.5	R14
20	3	16	24	6.5	24.5	40	54	22	41.5	R17
25	3	16	24	6.5	24.5	40	54	22	41.5	R17
32	3	26	34	6.5	31.5	45	59	24	50.5	R19
40	3	27	35	6.5	34	50	64	30	57	R23

● 尺寸表 Dimension Sheet

内径/符号 Bore/Symbol	Q	CQ	CP	CT	CA	CE	M	D	CH	C	L	R	PA1	PB2
16	12	18	6	3	43	55	18	6	25	24	36	8	28	19
20	16	22	7	3	51	66	24	8	31	32	48	8	31.5	22.5
25	16	22	7	3	51	66	24	8	31	32	48	8	31.5	22.5
32	16	22	6.5	3	47	63	26	10	36	36	52	12	31.5	22.5
40	20	26	6.5	3	53	69	26	12	39	40	56	12	37.5	23.5



### ● 订购码 Ordering Code

<b>SDA</b>	<b>20</b>	<b>×</b>	<b>30</b>	<b>-</b>	<b>25</b>	<b>-</b>	<b>S</b>	<b>-</b>	<b>B</b>
系列 Series	缸径 Bore		行程 Stroke		可调行程 Adjustable Stroke		磁石代号 Magnet		牙螺型式 Cog Type
SDA: 复动型	12		5mm-150mm				S: 附磁石		空白: 基本型(内螺纹)
SSA: 单动伸出型	16						空白: 不附磁石		B: 外螺纹
STA: 单动引入型	20						S: With magnet		N: 无螺纹
SDAD: 双轴型	25						Blank: Without magnet		Blank: Female thread
SDAJ: 行程可调型	32								B: Male thread
SDA: Double Action	40								N: No thread
SSA: Single Action Extrusion Type	50								
STA: Single Action Drawing-in Type	63								
SOAJ: Adjustable Stroke Type	80								
	100								

### ● 规格 Specification

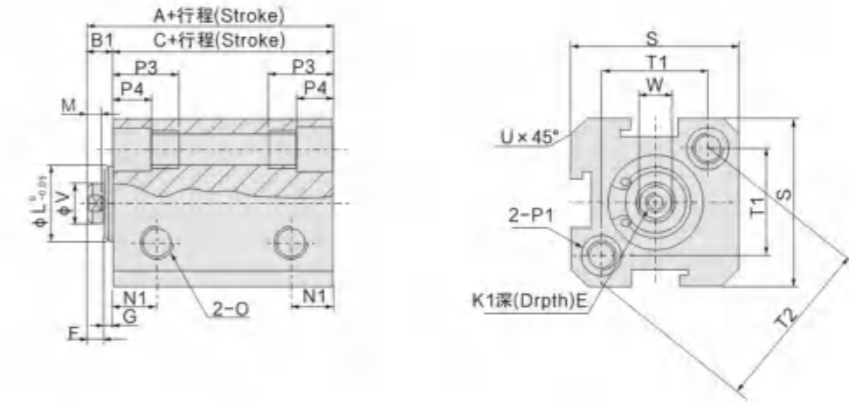
缸径规格 Bore Specification	12	16	20	25	32	40	50	63	80	100
动作型式 Motion Pattern	单动伸出型, 单动引入型 Single Action Extrusion Type, Single Action Drawing-in Type						复动型 / Double Action			
工作介质 Working Medium	空气 / Air									
使用压力 Working-pressure	复动型 / Double Action: 10-9.0 Kg/cm <sup>2</sup> 单动型/Single Action: 2.0-9.0 Kg/cm <sup>2</sup>									
保证耐压力 Ensured Pressure Resistance	10.5 Kg/cm <sup>2</sup>									
使用温度范围 Operating Temperature Range	0-70°C									
使用速度范围 Operating Speed Range	复动型 / Double Action: 30-500 mm/s			单动型/Single Action: 100-500 mm/s			30-350 mm/s		30-250 mm/s	
接管口径 Joint Pipe Bore	M5 x 0.8			G1/8"			G1/4"		G3/8"	

### ● 行程 Stroke

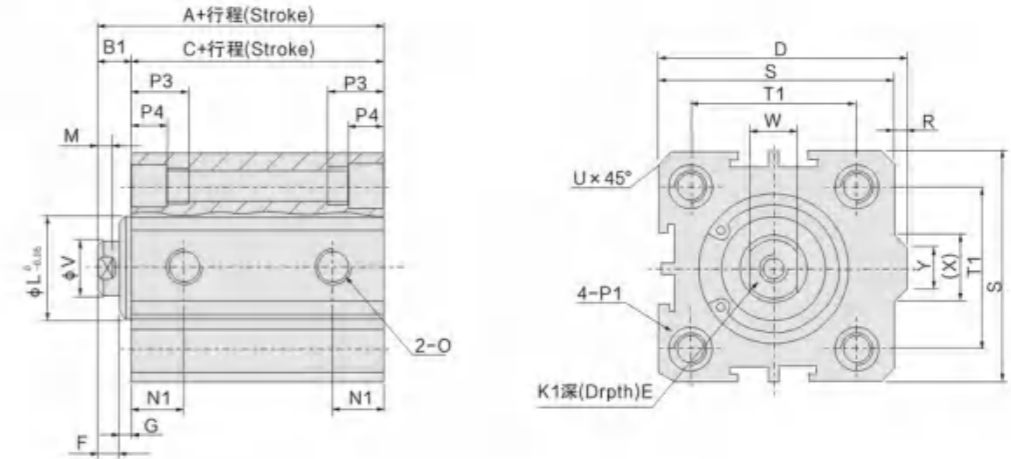
内径 Bore (mm)	12	16	20	25	32	40	63	80
复动型 Double Action	不附磁 Not attach magnet	5-60mm 每5mm一级 Every 5mm is grouped as one grade	5-80mm 每5mm一级 Every 5mm is grouped as one grade	5-90mm 每5mm一级 Every 5mm is grouped as one grade	100-110mm 每10mm一级 Every 10mm is grouped as one grade	5-90mm 每5mm一级 Every 5mm is grouped as one grade	100-120mm 每10mm一级 Every 10mm is grouped as one grade	
单动型 Single Action	附磁型 Attach magnet	5-50mm 每5mm一级 Every 5mm is grouped as one grade	5-75mm 每5mm一级 Every 5mm is grouped as one grade	5-90mm 每5mm一级 Every 5mm is grouped as one grade	100mm	5-90mm 每5mm一级 Every 5mm is grouped as one grade	100-120mm 每10mm一级 Every 5mm is grouped as one grade	
	不附磁 Not attach magnet	5-30mm 每5mm一级 Every 5mm is grouped as one grade	5-30mm 每5mm一级 Every 5mm is grouped as one grade	5-30mm 每5mm一级 Every 5mm is grouped as one grade	5-30mm 每5mm一级 Every 5mm is grouped as one grade	5-30mm 每5mm一级 Every 5mm is grouped as one grade		
最大行程/Max. Stroke	60mm		100mm		120mm			

### ● 外形尺寸 Overall Dimension

SDA12-16



SDA20-100

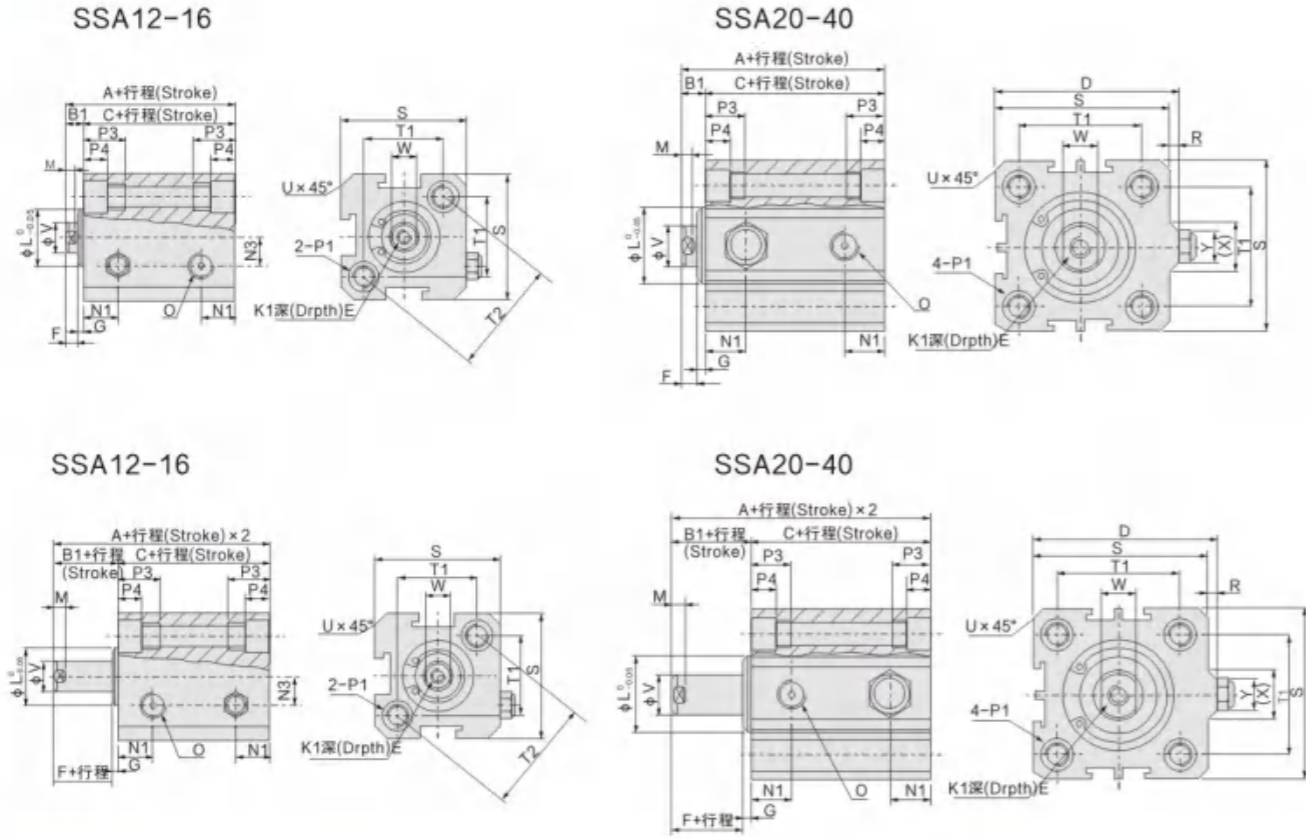


### ● 尺寸表 Dimension Sheet

型式 Type	标准型 Standard type			附磁型 With magnet			D	E	F	G	K1	L	M	N1	N3	O
	A	B1	C	A	B1	C										
12	22	5	17	32	5	27	-	6	4	1	M3×0.5	10.2	2.8	6.3	6	M5×0.8
16	24	5.5	18.5	34	5.5	28.5	-	6	4	1.5	M3×0.5	11	2.8	7.3	6.5	M5×0.8
20	25	5.5	19.5	35	5.5	29.5	36	8	4	1.5	M4×0.7	16	2.8	7.5	-	M5×0.8
25	27	6	21	37	6	31	42	10	4	2	M5×0.8	17	2.8	8	-	M5×0.8
32	31.5	7	24.5	41.5	7	34.5	50	12	4	3	M6×1	22	2.8	9	-	G1/8
40	33	7	26	43	7	36	58.5	12	4	3	M8×1.25	28	2.8	10	-	G1/8
50	37	9	28	47	9	38	71.5	15	5	4	M10×1.5	38	2.8	10.5	-	G1/4
63	41	9	32	51	9	42	84.5	15	5	4	M10×1.5	40	2.8	11.8	-	G1/4
80	52	11	41	62	11	51	104	15	6	5	M14×1.5	45	4	14.5	-	G3/8
100	63	12	51	73	12	61	124	18	7	5	M18×1.5	55	4	20.5	-	G3/8

内径/符号 Bore/Symbol	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	双边 Double side: φ6.5牙/Cog M5×0.8通孔 Through hole: φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	双边 Double side: φ6.5牙/Cog M5×0.8通孔 Through hole: φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	双边 Double side: φ6.5牙/Cog M5×0.8通孔 Through hole: φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	双边 Double side: φ8.2牙/Cog M6x1.0通孔 Through hole: φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	双边 Double side: φ8.2牙/Cog M6x1.0通孔 Through hole: φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	双边 Double side: φ10牙/Cog M8×1.25通孔 Through hole: φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	双边 Double side: φ11牙/Cog M8×1.25通孔 Through hole: φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	双边 Double side: φ11牙/Cog M8x1.25通孔 Through hole: φ6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	双边 Double side: φ14牙/Cog M12×1.75通孔 Through hole: φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	双边 Double side: φ17.5牙/Cog M14X2通孔 Through hole: φ11.3	30	13	10	114	90	-	3.65	32	27	35	26

● 外形尺寸 Overall Dimension



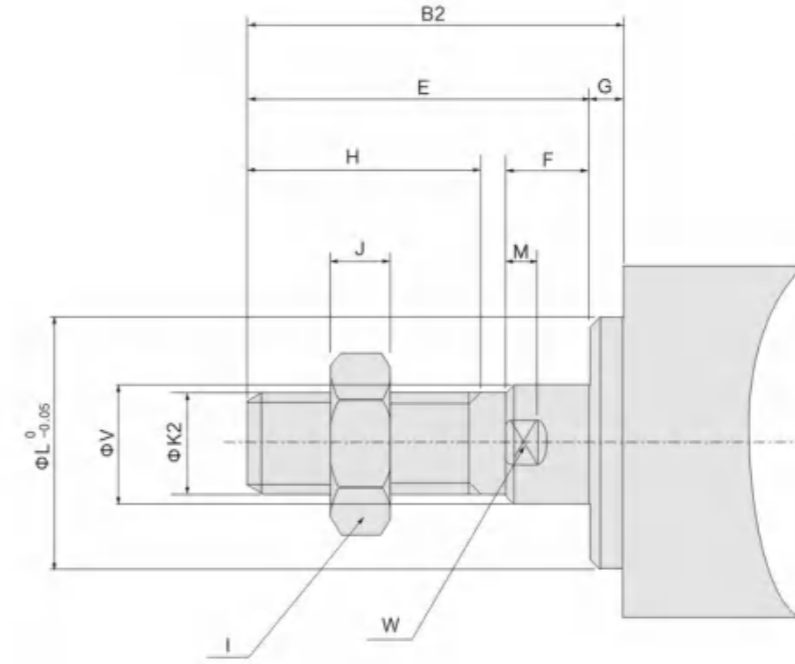
● 尺寸表 Dimension Sheet

型式/Type 内径/符号 Bore f / symbol 行程/Stroke	标准型 / Standard type		附磁型 / Attach magnet						D	E	F	G	K1	L	M	N1	N3		
	A		B1	C		A		B1										C	
	≤10	>10		≤10	>10	≤10	>10											≤10	>10
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3×0.5	10.2	2.8	6.3	6
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3×0.5	11	2.8	7.3	6.5
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4×0.7	16	2.8	7.5	-
25	37	47	6	31	41	47	57	6	41	51	42	10	4	2	M5×0.8	17	2.8	8	-
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	3	M6×1	22	2.8	9	-
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8×1.25	28	2.8	10	-

内径/符号 Bore f / symbol	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5×0.8	双边Double Side:Φ6.5 牙/Cog M5X0.8 通孔Through Hole:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5×0.8	双边Double Side:d 6.5牙/Cog M5X0.8 通孔Through Hole:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5×0.8	双边Double Side:Φ6.5 牙/Cog M5X0.8 通孔Through Hole:Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5×0.8	双边Double Side:Φ8.2牙/Cog M6X1.0 通孔Through Hole:Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8	双边Double Side:Φ8.2 牙/Cog M6 X1.0 通孔Through Hole:Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8	双边Double Side:Φ10 牙/Cog M8X1.25通孔Through Hole:Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

● 外形尺寸 Overall Dimension

SDA B牙



● 尺寸表 Dimension Sheet

内径/符号 Bore f symbol	B2	E	F	G	H	I	J	K2	L	M	V	W
12	17	16	4	1	12	8	4	M5×0.8	10.2	2.8	6	5
16	17.5	16	4	1.5	12	8	4	M5×0.8	11	2.8	6	5
20	20.5	19	4	1.5	15	10	5	M6×1.0	16	2.8	8	6
25	23	21	4	2	17	12	6	M10×1.25	17	2.8	10	8
32	25	22	4	3	18	17	6	M14×1.5	22	2.8	12	10
40	35	32	4	3	28	19	8	M18×1.5	28	2.8	16	14
50	37	33	5	4	28	27	11	M18×1.5	38	2.8	20	17
63	37	33	5	4	28	27	11	M22×1.5	40	2.8	20	17
80	44	39	6	5	33	32	13	M22×1.5	45	4	25	22
100	50	45	7	5	38	36	13	M26×1.5	55	4	32	27



ADVU25x30



ADVU50x50

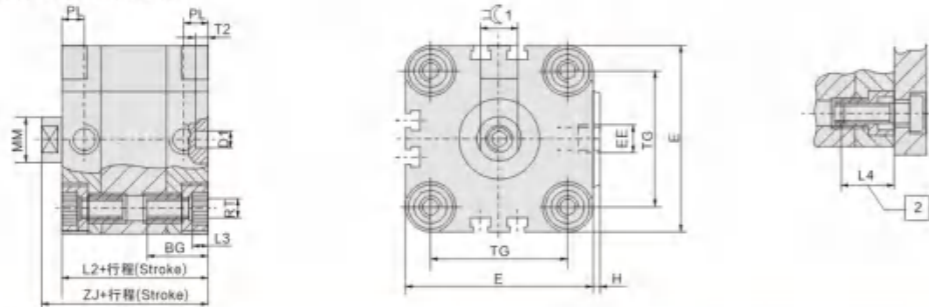
### 订购码 Ordering Code

<b>ADVU</b>	<b>50</b>	<b>80</b>	<b>A</b>	<b>S</b>	<b>A</b>	<b>S2</b>
<b>型号</b> Mode	<b>缸径</b> Cylinder Bore	<b>行程</b> Stroke	<b>牙型</b> Cog Type	<b>固定缓冲</b> Buffer Type	<b>磁石代号</b> Magnet Code	<b>活塞杆代号</b> Plunger Code
Φ16-Φ100mm ADVU:复动型 AEVU:单作用推动型 AEVUZ:单作用拉动型 ADVU:Double Action Type AEVU:Single-driven Type AEVUZ:Single Pull Type	Φ16-Φ100mm	基本型/Normal Type: Φ16-25:1-200mm Φ32-63:1-300mm Φ80-100:1-400mm 单作用/Single Action: Φ12:1-10mm Φ16:100:1-25mm	空白:内螺纹 A:外螺纹 Blank:Internal Thread A:External Thread		空白:不附磁系 A:Attach Magnet Blank:Without Magnet	空白:-端活塞杆 S2: 双端活塞杆 Blank:Single End Connecting Rod S2:Both Ends Connecting Rod

### 规格 Specification

内径/Bore(mm)	16	20	32	32	40	50	63	80	100
动作型式/Motion Pattern	双作用, 单杆/双杆/Double Acting, Single Rod/Double Rod								
使用流体/Fluid	过滤压缩空气/Filtered Compressed Air								
保证耐压力/Ensured Pressure Resistance	1.5MPa								
使用压力范围 Operating Pressure Range	ADVU-P-A 0.12-1.0MPa	0.1-1.0MPa	0.1-1.0MPa	0.08-1.0MPa	0.06-1.0MPa	0.1-1.0MPa	0.06-1.0MPa	0.06-1.0MPa	0.06-1.0MPa
环境和流体温度/Environment and Fluid Temp	-20~+80°C(No Freezing)								
接管口径/Port Size	M5			G1/8"			G1/4"		
活塞杆螺纹 Piston Rod Thread	内螺纹/Female Thread M4	M5	M6	M8	M10	M12			
缓冲/Buffering	橡胶缓冲/Rubber Bumper								

### 外形尺寸 Overall Dimension



### 尺寸表 Dimension Sheet

内径 Bore Size(mm)	GB	D1 ΦD9	E	EE	H	L2	L3	L4	ΦMM	PL	RT	T2	TG	ZJ	⊙1
16	18.5	6	29	M5	1	38	3	16	8	8	M4	4	18	42.5	7
20	18.5	6	36	M5	1.5	38	4	18	10	8	M5	4	22	42.5	9
25	18.5	6	40	M5	1.5	39.5	4	18	10	8	M5	4	26	45	9
32	21.5	6	50	G1/8	2	44.5	5	20	12	8	M6	4	32	50.5	10
40	21.5	6	60	G1/8	2.5	45.5	5	20	12	8	M6	4	42	52	10
50	22	6	68	G1/8	3	45.5	6	20	16	8	M8	4	50	53	13
63	24.5	6	87	G1/8	4	50	6	25	16	8	M10	4	62	57.5	13
80	27.5	6	107	G1/8	4	56	6	25	20	8.5	M10	4	82	64	17
100	32.5	6	128	G1/4	5	66.5	8	25	35	10.5	M10	4	103	76.5	22



CQ2B50x20



CQ2B40x25

### 订购码 Ordering Code

<b>CDQ2</b>	<b>B</b>	<b>12</b>	<b>10</b>	<b>D</b>	<b>□</b>
<b>系列</b> Series	<b>安装</b> Mounting Style	<b>缸径</b> Cylinder Bore	<b>行程</b> Stroke	<b>动作</b> Action	<b>缸身(任选)</b> Cylinder Body(Optional)
D: 办置磁环 空白: 无内置磁环 D: Attach Magnet Blank: Without Attach Magnet	A: 两端内 B: 通螺纹孔 A: With Female Thread On Both Ends B: With Through Bore	单动: Φ12-Φ50mm 双动: 12-Φ100mm Single Action: 12-Φ50mm Double Action: 12-Φ100mm	0~100mm	D: 双动 S: 单动(弹簧夺回) T: 单动(弹簧压出) D: Double Action S: Single Action (With Spring Return) T: Single Action (With Spring Extent)	空白: 杆端内螺纹 M: 杆端外螺纹 Blank: Female thread M: Male thread

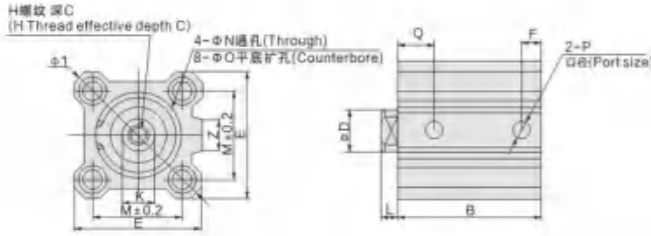
### 规格 Specification

内径/Bore(mm)	12	16	20	25	32	40	50	63	80	100
工作介质/Working Medium	空气/Air									
动作型式/Motion Pattern	单动: 弹簧压回/弹簧压出 Double Action/Single Action Extrusion Type/Single Action Drawing-In Type									
保证耐压力/Ensured Pressure Resistance	15.3kg/cm <sup>2</sup> (1.5MPa)									
最高使用压力/Max. Pressure	10.2kg/cm <sup>2</sup> (1.0MPa)									
环境和流体温度/Environment and Fluid Temp	5~+60°C									
杆端螺纹/Thread Type	内螺纹(标准)/外螺纹(任选) Inner Thread(Standard)/Outer Thread(Optional)									
缓冲/Buffering	无/NO									
行程公差/Margin of Stroke Error(mm)	+1.0 0									
安装/Installation	通孔(标准)/两准内螺纹(任选) Through Hole(Standard), Inner Size ON The Two Sides(Optional)									
接管口径/Port Size	M5 x 0.8			G1/8"			G1/4"		G3/8"	

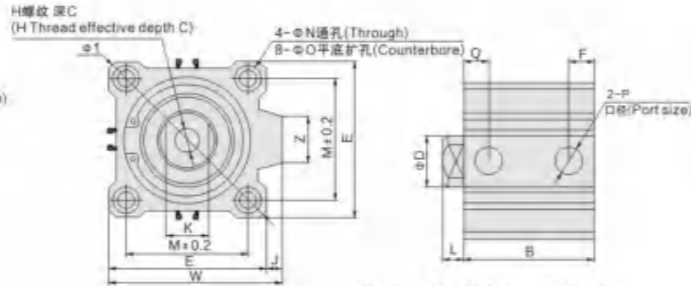
单动气缸不可以加橡胶缓冲  
Note: Pls Confirm Single Type Can't With Cushion

### ● 外形尺寸 Overall Dimension

Φ32~Φ100



Φ32~Φ100



注/Note2)长行程(Long Stroke)

通孔安装型(Through Hole Type)/CQ2B 系列/Series

### ● 双动气缸尺寸表 Dimension Sheet(Double Action)

型号/Model	行程范围 Stroke Range(mm)	B	ΦD	E	F	H	C	ΦI
CQ2B12-D	5-30	17+st	6	25	5	M3×0.5	6	32
CQ2B16-D	5-30	18.5+st	8	29	5.5	M4×0.7	8	38
CQ2B20-D	5-50	19.5+st	10	36	5.5	M5×0.8	7	47
CQ2B25-D	5-50	22.5+st	12	40	5.5	M6×1.0	12	52
CQ2B32-D	5	23+st	16	45	5.5	M8×1.25	13	60
	10-50				7.5			
CQ2B40-D	5-50	29.5+st	16	52	8	M8×1.25	13	69
CQ2B50-D	10-50	30.5+st	20	64	10.5	M10×1.5	15	86
CQ2B63-D	10-50	36+st	20	77	10.5	M10×1.5	15	103
CQ2B80-D	10-50	43.5+st	25	98	12.5	M16×20	21	132
CQ2B100-D	10-50	53+st	30	117	13	M20×25	27	156

型号/Model	J	K	L	M	ΦN	ΦO	P	Q	W	Z
CQ2B12-D	-	5	3.5	15.5	3.5	6.5深/depth 3.5	M5×0.8	7.5	-	-
CQ2B16-D	-	6	3.5	20	3.5	6.5深/depth 3.5	M5×0.8	8	-	10
CQ2B20-D	-	8	4.5	25.5	5.5	9深/depth 7	M5×0.8	9	-	10
CQ2B25-D	-	10	5	28	5.5	9深/depth 7	M5×0.8	11	-	10
CQ2B32-D	4.5	14	7	34	5.5	9深/depth 7	M5×0.8	11.5	49.5	18
							1/8	10.5		
CQ2B40-D	5	14	7	40	5.5	9深/depth 7	1/8	11	57	18
CQ2B50-D	7	17	8	50	6.6	11深/depth 8	1/4	10.5	71	22
CQ2B63-D	7	17	8	60	9	14深/depth 10.5	1/4	15	84	22
CQ2B80-D	6	22	10	77	11	17.5深/depth 13.5	3/8	16	104	26
CQ2B100-D	6.5	27	12	94	11	17.5深/depth 13.5	3/8	23	123.5	26

型号 Model	行程 (mm)	B	F	P	Q
32	75,100	33	7.5	1/8	10.5
40	75,100	39.5	8	1/8	11
50	75,100	40.5	10.5	1/4	10.5
63	75,100	46	10.5	1/4	15
80	75,100	53.5	12.5	3/8	16
100	75,100	63	12	3/8	23

St=行程(Stroke)

注1)标准行程是每5mm相隔。

Note1) The standard stroke is at a distance of each 5mm.

注2)行程有55mm至100mm之间的中间行程(55,60,65,70,80,85,90,95)加5,10,15或20mm厚的垫板。

Note2) The stroke between 55mm-100mm(55,60,65,70,80,85,90,95), need to be added thickness of 5, 10, 15 or 20mm pad.

注3)除非有特别指明, 通孔型气缸尺寸和两端内螺纹气缸尺寸是一样。

Note3) External dimensions with rumper are same as standard type as shown above.

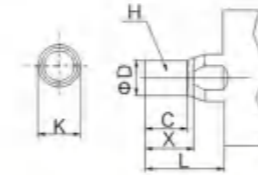
### ● 单动气缸尺寸表 Dimension Sheet(Single Action)

型号/Model	B			ΦD	E	F		H	C	ΦI	J	K
	5st	10st	20st			5st	10st					
CQ2B12-D	22	27	-	6	25	5	5	M3×0.5	6	32	-	5
CQ2B16-D	23.5	28.5	-	8	29	5.5	5.5	M4×0.7	8	38	-	6
CQ2B20-D	24.5	29.5	-	10	36	5.5	5.5	M5×0.8	7	47	-	8
CQ2B25-D	27.5	32.5	-	12	40	5.5	5.5	M6×1.0	12	52	-	10
CQ2B32-D	28	33	-	16	45	5.5	7.5	M8×1.25	13	60	4.5	14
CQ2B40-D	34.5	39.5	-	16	52	8	8	M8×1.25	13	69	5	14
CQ2B50-D	-	40.5	50.5	20	64	10.5	10.5	M10×1.5	15	86	7	17

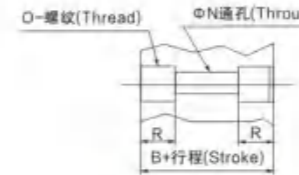
型号/Model	K	L	M	ΦN	ΦD	P			Q		W	Z	
						5st	10st	20st	5st	10st			
CQ2B12-D	5	3.5	15	3.5	6.5深/depth 3.5	M5×0.8			-	7.5	7.5	-	-
CQ2B16-D	6	3.5	20	3.5	6.5深/depth 3.5	M5×0.8			-	8	8	-	10
CQ2B20-D	8	4.5	25.5	5.5	9深/depth 7	M5×0.8			-	9	9	-	10
CQ2B25-D	10	5	28	5.5	9深/depth 7	M5×0.8			-	11	11	-	10
CQ2B32-D	14	7	3.4	5.5	9深/depth 7	M5×0.8	1/8	-	11.5	11.5	49.5	18	
CQ2B40-D	14	7	40	5.5	9深/depth 7	1/8			-	11	11	57	18
CQ2B50-D	17	8	50	6.6	11深/depth 8	-	1/4		10.5	10.5	71	22	

St=行程(Stroke)

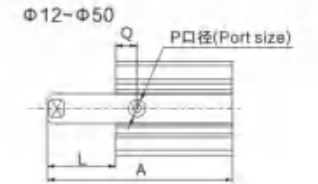
活塞杆外螺纹  
Thread Outer Type



两端内螺纹安装型  
(Inner Thread Type)/CO2A



单动/弹簧压出  
Single Action(With Spring Extent)



活塞杆外螺纹  
Thread Outer Type

缸径 Bore (mm)	C	X	ΦD	H	K	L
12	9	10.5	6	M5×0.8	14	5
16	10	12	8	M6×1.0	15.5	6
20	12	14	10	M8×0.8	18.5	8
25	15	17.5	12	M10×1.25	22.5	10
32	20.5	23.5	16	M14×1.5	28.5	14
40	20.5	23.5	16	M14×1.5	28.5	14
50	26	28.5	20	M18×1.5	33.5	17
63	26	28.5	20	M18×1.5	33.5	17
80	32.5	35.5	25	M22×1.5	43.5	22
100	32.5	35.5	30	M26×1.5	43.5	27

注3)两端内螺纹  
Note3) Inner Thread Type

缸径 Bore (mm)	O	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14
63	M10×1.5	18
80	M12×1.75	22
100	M12×1.75	22

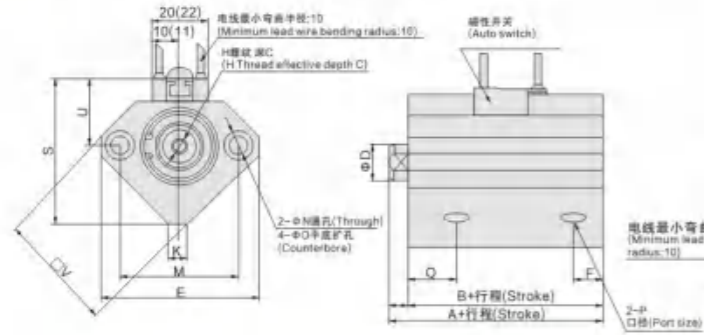
单动/弹簧压出  
Single Action(With Spring Extent)

缸径 Bore (mm)	A			L		
	5st	10st	20st	5st	10st	20st
12	30.5	40.5	-	8.5	13.5	-
16	32	42	-	8.5	13.5	-
20	34	44	-	9.5	14.5	-
25	37.5	47.5	-	10	15	-
32	40	50	-	12	17	-
40	46.5	56.5	-	12	17	-
50	-	58.5	78.5	-	18	28

◆除非有特别指明, 通孔型气缸尺寸和两端内螺纹气缸尺寸是一样。  
◆External dimensions with rumper are same as standard type as shown above.

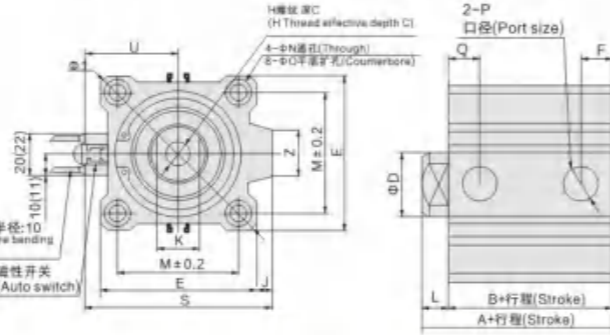
### ● 外形尺寸 Overall Dimension

Φ12~Φ25



Φ32~Φ100

CDQ2B 系列/Aeries



### ● 双动气缸尺寸表/Dimension Sheet(Double Acton)

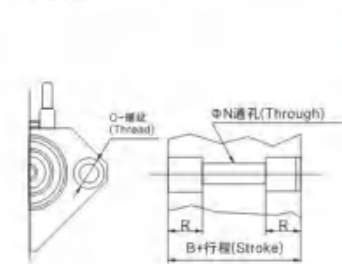
型号/Model	注1)行程范围 Stroke Range (mm)	A	B	ΦD	E	F	H	C	ΦI	J	K	L	M	ΦN	ΦO	P	Q	S	U	V	Z
CDQ2B12	5~30	31.5	28	6	32	6.5	M3×0.5	6	-	-	5	3.5	22	3.5	6.5深/depth 3.5	M5×0.8	11	35	19.5	25	-
CDQ2B16	5~30	34	30.5	8	38	5.5	M4×0.7	8	-	-	6	3.5	28	3.5	6.5深/depth 3.5	M5×0.8	10	41.5	22.5	29	-
CDQ2B20	5~50	36	31.5	10	46.8	5.5	M5×0.8	7	-	-	8	4.5	36	5.5	9深/depth 7	M5×0.8	10.5	48	24.5	36	-
CDQ2B25	5~50	37.5	32.5	12	52	5.5	M6×1.0	12	-	-	10	5	40	5.5	9深/depth 7	M5×0.8	11	53.5	27.5	40	-
CDQ2B32	5~50	40	33	16	45	7.5	M8×1.25	13	60	4.5	14	7	34	5.5	9深/depth 7	M5×0.8	10.5	58.5	31.5	-	18
CDQ2B40	5~50	46.5	39.5	16	52	8	M8×1.25	13	69	5	14	7	40	5.5	9深/depth 7	1/8	11	66	35	-	18
CDQ2B50	10~50	48.5	40.5	20	64	10.5	M10×1.5	15	86	7	17	8	50	6.6	11深/depth 8	1/8	10.5	80	41	-	22
CDQ2B63	10~50	54	46	20	77	10.5	M10×1.5	15	103	7	17	8	60	9	14深/depth 10.5	1/4	15	93	47.5	-	22
CDQ2B80	10~50	63.5	53.5	25	98	12.5	M16×2.0	21	132	6	22	10	77	11	17.5深/depth 13.5	1/4	16	112.5	57.5	-	26
CDQ2B100	10~50	75	63	30	117	13	M20×2.5	27	156	6.5	27	12	94	11	17.5深/depth 13.5	3/8	23	132.5	67.5	-	26

注/Note2长行程(Long Stroke)

缸径Bore (mm)	行程(mm)	A	B	F	P	Q
32	75,100	40	33	7.5	1/8	10.5
40	75,100	46.5	39.5	8	1/8	11
50	75,100	48.5	40.5	10.5	1/4	10.5
63	75,100	54	46	10.5	1/4	15
80	75,100	63.5	53.5	12.5	3/8	16
100	75,100	75	63	13	3/8	23

注1)标准行程是每5mm相隔。  
Note1)The standard stroke is at a distance of each 5mm.  
注2)行程有55mm至100mm之间的中间行程(55,60,65,70,80,85,90,95),加5,10,15或20mm厚的垫板。  
Note2)The stroke between 55mm-100mm(55,60,65,70,80,85,90,95),need to be added thickness of 5,10,15 or 20mm pad.  
注3)除非有特别指明,通孔型气缸尺寸和两端内螺纹气缸尺寸是一样。  
Note3)External dimensions with rumper are same as standard type as shown above.  
注4)5mm行程气缸只能安装一个磁性开关。  
Note4)The stroke of cylinder in 5mm can be fixed only one magnetism swigh.

两端内螺纹/Inner Thread Type  
CDQ2A



注3)两端内螺纹  
Note3)Inne Thread Type

缸径Bore (mm)	O	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14
63	M10×1.5	18
80	M12×1.75	22
100	M12×1.75	22

活塞杆外螺纹  
Thread Outer Type

缸径 Bore (mm)	C	X	ΦD	H	L	K
12	9	10.5	6	M5×0.8	14	5
16	10	12	8	M6×1.0	15.5	6
20	12	14	10	M8×0.8	18.5	8
25	15	17.5	12	M10×1.25	22.5	10
32	20.5	23.5	16	M14×1.5	28.5	14
40	20.5	23.5	16	M14×1.5	28.5	14
50	26	28.5	20	M18×1.5	33.5	17
63	26	28.5	20	M18×1.5	33.5	17
80	32.5	35.5	25	M22×1.5	43.5	22
100	32.5	35.5	30	M26×1.5	43.5	27

◆除非有特别指明,通孔型气缸尺寸和两端内螺纹气缸尺寸是一样。  
◆External dimensions with rumper are same as standard type as shown above.

### ● 订购码 Ordering Code

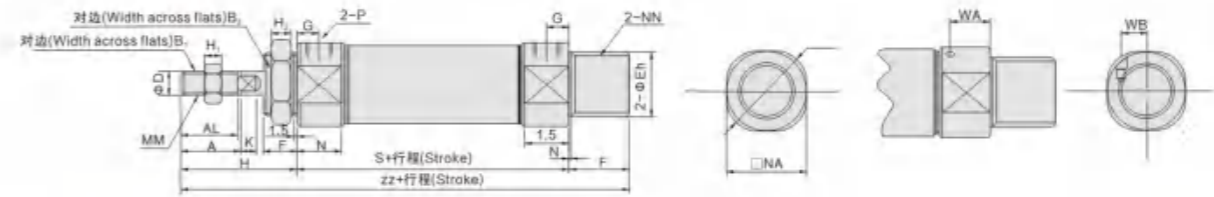
<b>CDM2</b>	<b>32</b>	<b>150</b>	<b>A</b>
系列 Series	缸径 Cylinder Bore	行程 Stroke	缓冲 Buffer
空白: 无内置磁环 D: 内置磁环 Blank: Without Attach Magnet D: Attach Magnet	Φ20~Φ40mm	0~1000mm	空白: 橡胶缓冲 A: 气缓冲 Blank: Rubber Cushion A: Air Cushion

### ● 规格 Specification

缸径/Cylinder Diameter	20	25	32	40
工作介质/Working Medium	空气/Air			
动作型式/Motion Pattern	复动型/Double Acting			
保证耐压/Ensured Pressure Resistance	15.3kgf/cm <sup>2</sup> (1.5MPa)			
最高使用压力/Max.Pressure	10.2kgf/cm <sup>2</sup> (1.0MPa)			
最低使用压力/Min.Pressure	0.5kgf/cm <sup>2</sup> (0.05MPa)			
使用温度范围/Operating Temperature Range	-10~70°C			
使用速度范围/Operating Speed Range	50~750mm/s			
缓冲/Buffering	橡胶缓冲(标准)Rubber Buffer(Standard),气缓冲/Air Buffering(Optional)			
行程公差/Margin of Stroke Error(mm)	+1 <sub>0</sub> <sup>-4</sup> mm			
接管口径/Port Size	G1/8"	G1/8"	G1/8"	G1/4"

### ● 外形尺寸 Overall Dimension

Φ20~Φ40 CM2 系列/Series



### ● 尺寸表 Dimension Sheet

缸径 Bore (mm)	行程范围 Stroke Range	A	AL	B1	B2	D	E	F	G	H	H1	H2	I	K	MM	N	NA	NN	P	S	ZZ	WA	WB
20	-300	18	15.5	13	26	8	20 <sub>0.033</sub>	13	8	41	5	8	28	5	M8×1.25	15	24	M20×1.5	1/8	62	116	11.5	8.5
25	-300	22	19.5	17	32	10	26 <sub>0.033</sub>	13	8	45	6	8	33.5	5.5	M10×1.25	15	30	M26×1.5	1/8	62	120	11.5	10
32	-300	22	19.5	17	32	12	26 <sub>0.033</sub>	13	8	45	6	8	37.5	5.5	M10×1.25	15	34.5	M26×1.4	1/8	64	122	11.5	11.5
40	-300	24	21	22	41	14	32 <sub>0.033</sub>	16	11	50	6	10	46.5	7	M14×1.5	21.5	42.5	M32×2	1/4	88	154	14	15



### ● 订购码 Ordering Code

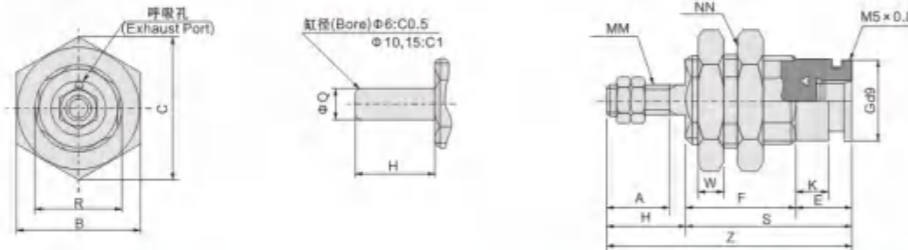
CJPB	10	5	B
<b>系列代号</b> Series Code	<b>缸径</b> Cylinder Bore	<b>行程</b> Stroke	<b>螺纹型</b> Thread Type
CJPB: 面板安装型 CJPS: 内置型 CJPB: Panel Mount Type CJPS: Attach Type	6: $\Phi 6$ mm 10: $\Phi 10$ mm 15: $\Phi 15$ mm	0-30mm	空白: 有螺纹 B: 无螺纹 Blank: With Thread B: No.Thread

### ● 规格 Specification

内径/Bore(mm)	6	10	15
工作介质/Working Medium	空气/Air		
动作型式/Motion Pattern	复动/单动(弹簧压回) Double Action/Single Action (SDrawing-in Type)		
保证耐压/Ensured Pressure Resistance	10.5kgf/cm <sup>2</sup> (1.05MPa)		
最高使用压力/Max.Pressure	7kgf/cm <sup>2</sup> (0.7MPa)		
最低使用压力/Min.Pressure	2kgf/cm <sup>2</sup> (0.2MPa)	1.5kgf/cm <sup>2</sup> (0.15MPa)	
使用温度范围/Operating Temperature Range	5~+60°C		
缓冲/Buffering	无/NO		
行程公差/Margin of Stroke Error(mm)	+1.0 0 mm		
接管口径/Port Size	M5 x 0.8 (面板安装型/Panel mount Type)		

### ● 外形尺寸 Overall Dimension

面板安装型CJPB  
Panel Mounting Style

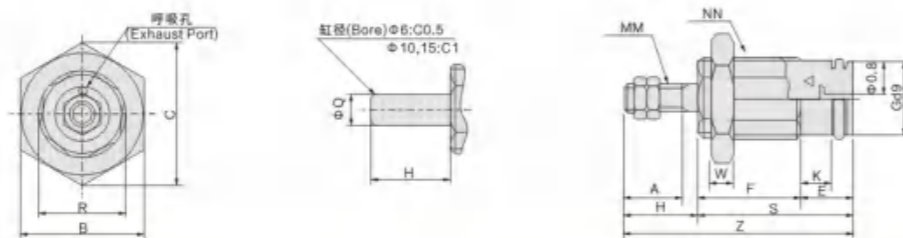


### ● 尺寸表 Dimension Sheet

缸径 Bore(mm)	A	B	C	E	F			$\Phi G$	H	K	MM	NN	R	S			W	Z			Q
					5st	10st	15st							5st	10st	15st		5st	10st	15st	
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3 x 0.5	M10 x 1.0	9	18.5	22.5	32.5	3	27.5	34.5	41.5	3
10	10	19	22	6	14.5	21	28	12	12	3.5	M4 x 0.7	M15 x 1.5	13	20.5	27	34	4	32.5	39	46	5
15	12	17	31	7	16.5	22.5	29	19	14	4.2	M5 x 0.8	M22 x 1.5	20	23.5	29.5	36	5	37.5	43.5	50	6

### 外形尺寸 Overall Dimension

内置型  
(Plug Mounting Style) CJPS



### ● 尺寸表 Dimension Sheet

缸径 Bore(mm)	A	B	C	E	F			$\Phi G$	H	K	MM	NN	R	S			W	Z			Q
					5st	10st	15st							5st	10st	15st		5st	10st	15st	
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3 x 0.5	M10 x 1.0	9	18.5	22.5	32.5	3	27.5	34.5	41.5	3
10	10	19	22	6	14.5	21	28	12	12	3.5	M4 x 0.7	M15 x 1.5	13	20.5	27	34	4	32.5	39	46	5
15	12	17	31	7	16.5	22.5	29	19	14	4.2	M5 x 0.8	M22 x 1.5	20	23.5	29.5	36	5	37.5	43.5	50	6



CU20-20

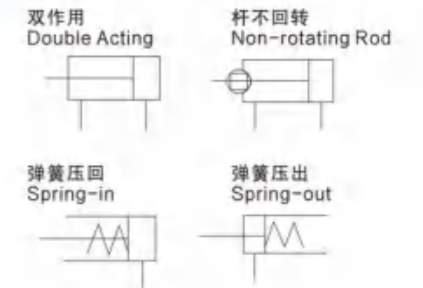


CU10-250

### ● 订购码 Ordering Code

CDU	K	25	30	D
<b>内置磁环</b> Magnet	<b>品种</b> Type	<b>缸径</b> Bore	<b>标准行程</b> Standard Stroke	<b>动作方式</b> Motion Type
无记号: 无内置磁环 D: 内置磁环 Blank: Without magnet D: With magnet	无记号: 基本型 K: 杆不回转型 Blank: Basic type K: Non-rotating	6 10 16 20 25 32	5 10 15 20 30 40 50	D-双动 S-单动(弹簧压回) T-单动(弹簧压出) D: Double acting S: Single acting (Spring-in) T: Single acting (Spring-out)

### ● 图形符号 Symbol



### ● 规格 Specification

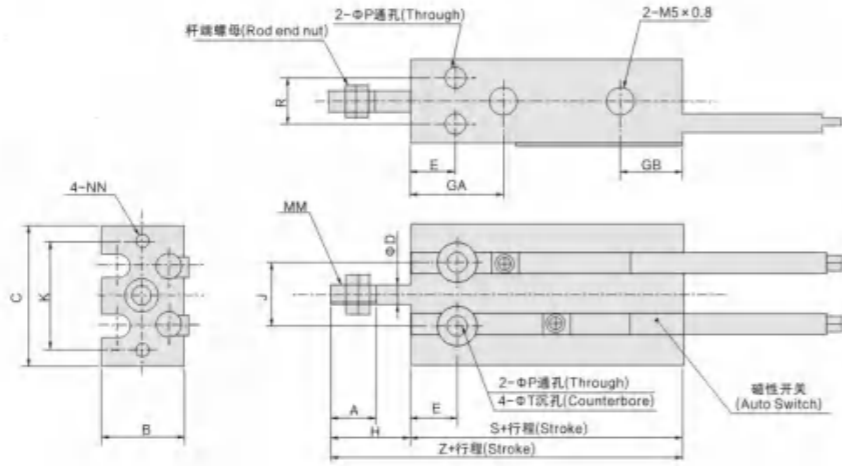
缸径Bore(mm)	6	10	16	20	25	32
使用流体 Operating Fluid	空气 Air					
动作方式 Operation	D: 双作用 S: 单作用(弹簧压回) T: 单作用(弹簧压出) D: Double Acting, S: Single Acting (Spring-in), T: Single Acting (Spring-out)					
最高使用压力 Max. Operating Pressure	0.7MPa					
保证耐压力 Proof Pressure	1.0MPa					
环境和流体温度 Ambient and fluid temp	5-60°C					
缓冲 Cushion	两端橡胶缓冲 Both end with Rubber Gasket Cushioning					
*给油 Lubricant	不需要 Non-lub					
安装形式 Installation Type	自由(多面安装) Free (Multi-installation)					
活塞杆不回转精度 Precision non-rotating rod	$\pm 0.8^\circ$			$\pm 0.5^\circ$		
接管口径 Port Size	M5 x 0.8					1/8

### ● 行程、磁性开关型号表 Stroke/Sensoric Switch Model

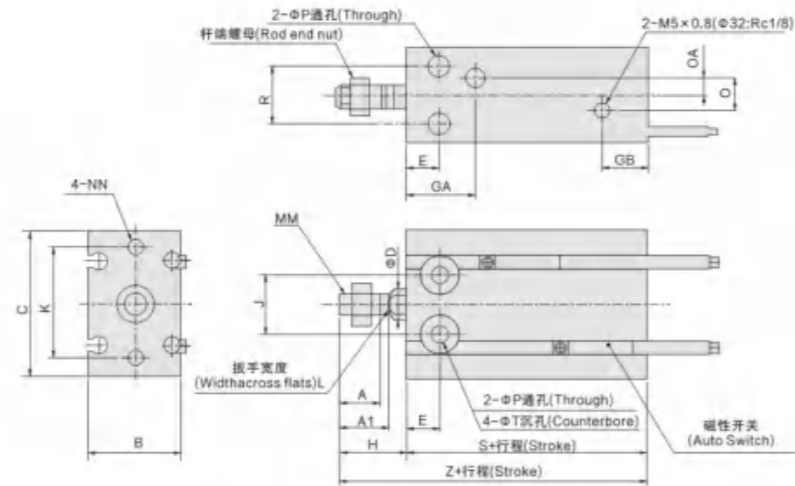
缸径Bore(mm)	标准行程 Standard Stroke		长行程(双作用) Stroke Length (Double Acting)	*磁性开关型号(直接安装) *Sensor Switch Model(Direct mounting)
	双作用 Double Acting	单作用 Single Acting		
6	5, 10, 15, 20, 25, 30	5, 10, 15	40, 50, 60	D-A90L D-A93L D-A96L D-A80L D-F9NL D-F98
10				
16				
20	5, 10, 15, 20, 25, 30, 40, 50	60, 70, 80, 90, 100		
25				
32				

● 外形尺寸 Overall Dimension

CU  $\Phi 6 \sim \Phi 10$



CU  $\Phi 16 \sim \Phi 32$



● 尺寸表 Dimension Sheet

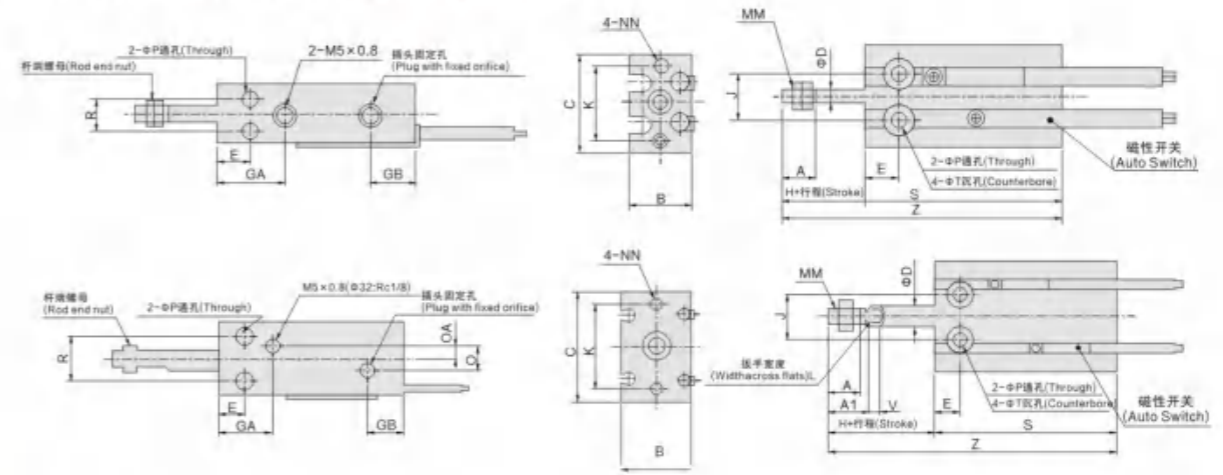
缸径/Bore Size(mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	K
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4×0.7
16	11	12.5	20	32	6	7	16.5 <sup>(No1)</sup>	11.5	16	25	14	5	M5×0.8
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25
32	19.5	22	40	62	12	11	23	12.5	27	38	24	10	M10×1.25

缸径/Bore Size(mm)	NN	P	Q	QA	R	T	不带磁性开关(Without Auto Switch)		带磁性开关(With Auto Switch)	
							S	Z	S	Z
6	M3×0.5深(depth)5	3.2	-	-	7	6深(depth)4.8	33	46	33	46
10	M3×0.5深(depth)5	3.2	-	-	9	6深(depth)5	36	52	36	52
16	M3×0.7深(depth)6	4.5	4	2	12	7.6深(depth)6.5	30	46	40	56
20	M3×0.8深(depth)8	5.5	9	4.5	16	9.3深(depth)8	36	55	46	65
25	M3×0.8深(depth)8	5.5	9	4.5	20	9.3深(depth)9	40	63	50	73
32	M3×1.0深(depth)9	6.5	13.5	4.5	24	11深(depth)11.5	42	69	52	79

注) 5行程(CU16-5D): 14.5mm  
Note) 5 Stroke (CU16-5D): 14.5mm

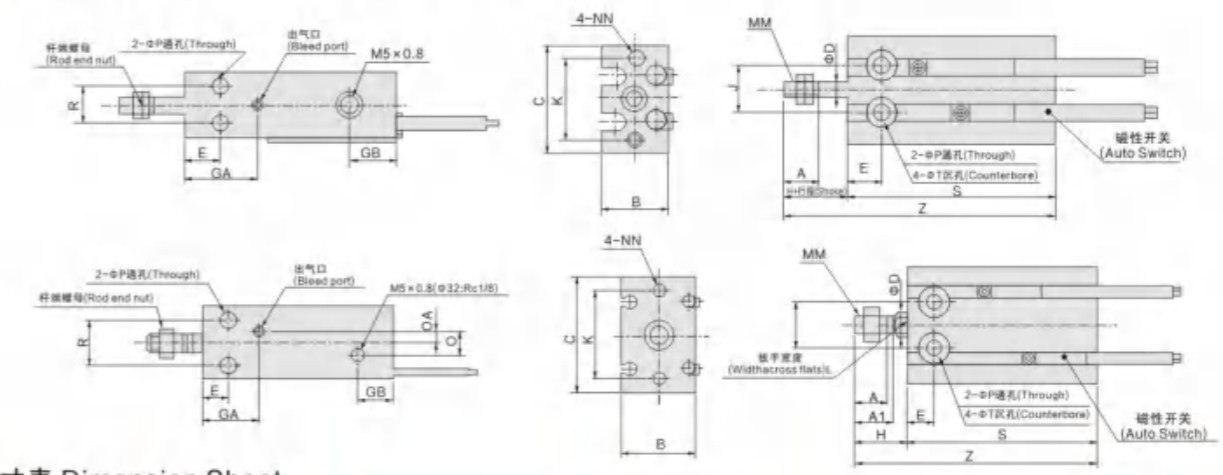
● 外形尺寸 Overall Dimension

单作用, 弹簧压出(Single Acting, Spring Extend)



● 外形尺寸 Overall Dimension

单作用, 弹簧压出(Single Acting, Spring Extend)



● 尺寸表 Dimension Sheet

缸径/Bore Size(mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	MM	NN	P
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5	M3×0.5深(depth)5	3.2
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4×0.7	M3×0.5深(depth)5	3.2
16	11	12.5	20	32	6	7	16.5	11.5	16	25	14	5	M5×0.8	M3×0.7深(depth)6	4.5
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0	M3×0.8深(depth)8	5.5
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25	M3×0.8深(depth)8	5.5
32	19.5	22	40	62	12	11	23	12.5	27	48	24	10	M10×1.25	M3×1.0深(depth)9	6.6

缸径/Bore Size(mm)	Q	QA	R	T	V <sup>No1</sup>	不带磁性开关(Without Auto Switch)				带磁性开关(With Auto Switch)							
						S		Z		S		Z					
						5"	10"	15"	5"	10"	15"	5"	10"	15"			
6	-	-	7	6深(depth)4.8	-	38	43	48	56	66	76	38	43	48	56	66	76
10	-	-	9	6深(depth)5	-	41	46	56	62	72	87	41	46	56	62	72	87
16	4	2	12	7.6深(depth)6.5	3.5	45	50	60	66	76	91	45	50	60	66	76	91
20	9	4.5	16	9.3深(depth)8	5	41	46	56	65	75	90	51	56	66	75	85	100
25	9	4.5	20	9.3深(depth)9	5	45	50	60	73	83	98	55	60	70	83	93	108
32	13.5	4.5	24	11深(depth)11.5	5	47	52	62	79	89	104	57	62	72	89	99	114

注)V<sup>No1</sup>仅适用单作用, 弹簧压出。  
Note)V<sup>No1</sup>Only for Single Acting, Spring Extend.



TN16 x 50



TN25 x 50

### 订购码 Ordering Code

<b>TN</b>	<b>25</b>	<b>×</b>	<b>50</b>	<b>-</b>	<b>S</b>
系列代号 Series Code	缸径 Cylinder Bore		行程 Stroke		磁系列代号 Magnet Code
双轴复动型 Double-Shaft Double Action Type	10-φ32mm				S: 内置磁环型 S: With Magnet

### 图形符号 Symbol

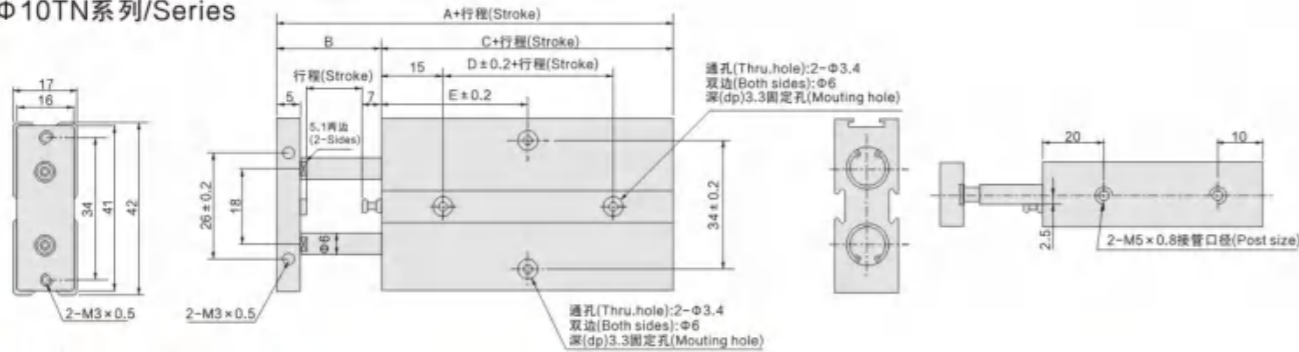


### 规格 Specification

内径/Bore(mm)	10	16	20	25	32
动作型式/Motion Pattern	复动型/Double Action				
工作介质/Working Medium	空气/Air				
使用压力范围/Operating Voltage Range	1-9kgf/cm <sup>2</sup>				
保证耐压力/Ensured pressure Resistance	10.5kgf/cm <sup>2</sup>				
使用温度范围/Operating Temperature Range	-5-70°C				
使用速度范围/Operating Sped Range	100-500mm/s				
调整行程/Adjustable Stroke	-10-0mm				
缓冲型式/Cushion Type	固定缓冲/Fixed Type Buffer				
不回转精度/Non Rotating Precision	0.4°C			0.3°C	
接管口径/Port Size	M5 x 0.8			G1/8"	

### 外形尺寸 Overall Dimension

#### φ10TN系列/Series

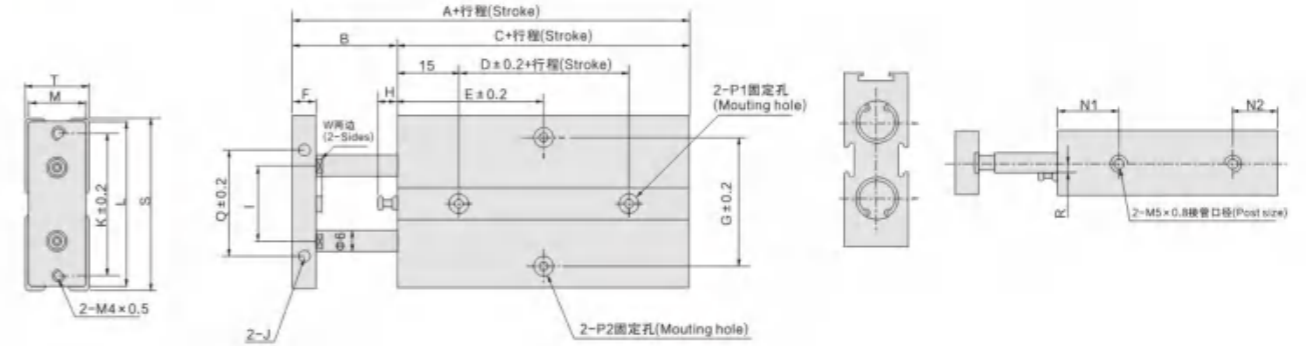


### 尺寸表 Dimension Sheet

缸径/Bore Size 项目/Item	A	B	C	D	E						
					10	20	20	40	50	60	70
10	63	12	51	10	30	30	35	40	45	50	55

### 外形尺寸 Overall Dimension

#### φ16~φ25TN系列/Series



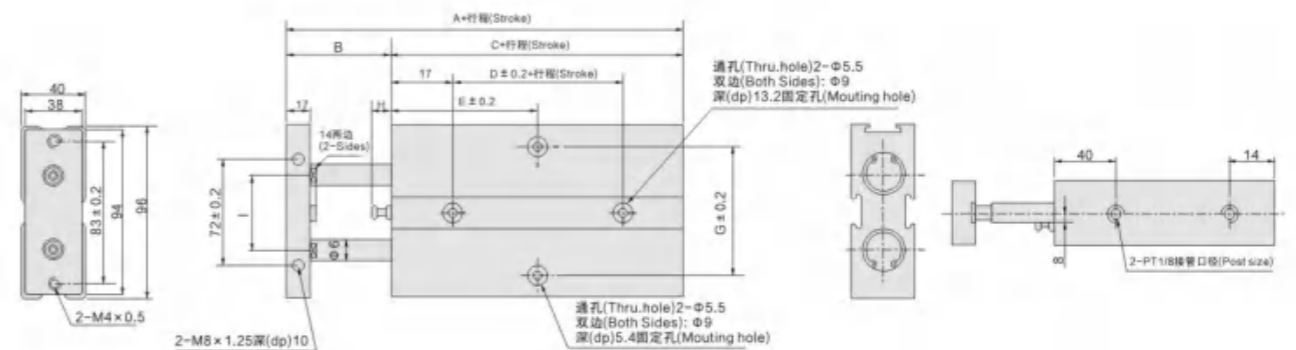
### 尺寸表 Dimension Sheet

缸径/Bore Size 项目/Item	A	B	C	D	E											F	G	H	I	
					10	20	30	40	50	60	70	80	90	100	125					150
16	68	15	56	20	30	35	40	45	50	55	60	65	70	75	87.5	100	8	47	6	24
20	78	20	58	20	35	35	40	45	50	55	60	65	70	75	87.5	100	10	55	9	28
25	81	19	62	30	40	40	45	50	55	60	65	70	75	80	92.2	105	10	66	8	34

缸径/项目Bore Size/Item	J	K	B	M	N1	N2	P1	P2	Q	R	S	T	V	W
16	M4 x 0.7 深/dp5	47	53	20	22	11	双边(Both Sides): φ7.5深(dp)7.2mm 通孔(Thru.Hole): φ4.5	双边(Both Sides): φ8深(dp)4.4mm 通孔(Thru.Hole): φ4.5	34	3	54	21	8	6.1
20	M4 x 0.7 深/dp5	55	61	24	25	12	双边(Both Sides): φ7.5深(dp)7.2mm 通孔(Thru.Hole): φ4.5	双边(Both Sides): φ8深(dp)4.4mm 通孔(Thru.Hole): φ4.5	44	3.5	62	25	10	8.1
25	M4 x 0.7 深/dp5	66	72	29	12	12	双边(Both Sides): φ7.5深(dp)7.2mm 通孔(Thru.Hole): φ4.5	双边(Both Sides): φ8深(dp)4.4mm 通孔(Thru.Hole): φ4.5	56	7	73	30	12	10.2

### 外形尺寸 Overall Dimension

#### φ32TN系列/Series

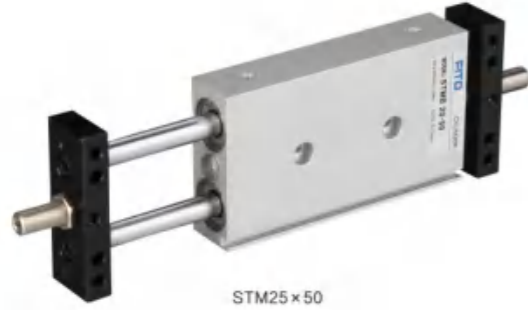


### 尺寸表 Dimension Sheet

缸径/Bore Size 项目/Item	A	B	C	D	E											
					10	20	30	40	50	60	70	80	90	100	125	150
32	108	30	78	35	45	50	55	60	65	70	75	80	85	90	102.5	115

### ● 订购码 Ordering Code

STM	B	25	100
<b>系列代号</b> Series Code	<b>固定方式</b> Fixed way	<b>缸径</b> Cylinder Bore	<b>行程</b> Stroke
STM:STM系列滑台气缸 STM:STM Slide Cylinder series	B:本体固定型 S:滑块固定型 B:Body fixed type S:Sliding block type	10:10mm 16:16mm 20:20mm 25:25mm	



### 图形符号 Symbol



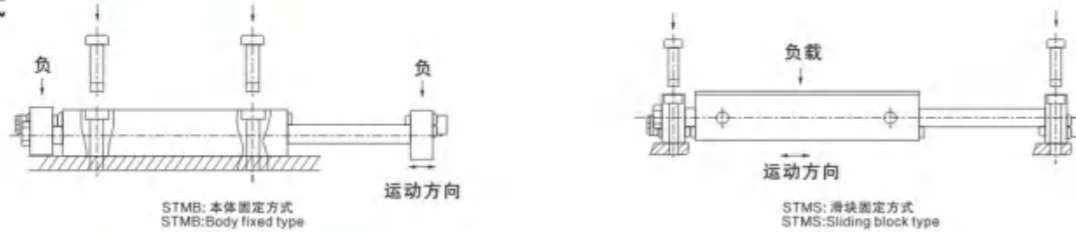
### ● 行程 Stroke

内径 Bore Size	标准行程 Stroke
10	25 50 75 100
16	25 50 75 100 125 150 175 200
20	25 50 75 100 125 150 175 200 250
25	25 50 75 100 125 150 175 200 250

### ● 规格 Specification

内径 Bore (mm)	10	16	20	25
动作型式 Motion Pattern	双动型 /Double Action			
工作介质 Working Medium	空气 Air			
工作温度 Working temperature	-5~70			
使用压力范围 Operating Voltage Range	0.1~0.9MPa(14~128Psi)			
保证耐压力 Ensured pressure Resistance	1.5MPa(213Psi)			
使用速度范围 Operating Sped Range	52~200			
缓冲形式 Cushion Type	无	油压缓动器(不选项)		
润滑 lubrication	不需要			
不回转精度 Non Rotating Precision	±0.1°	±0.05°		
接管口径 Port Size	M5×0.8			PT1/8

### ● 固定方式

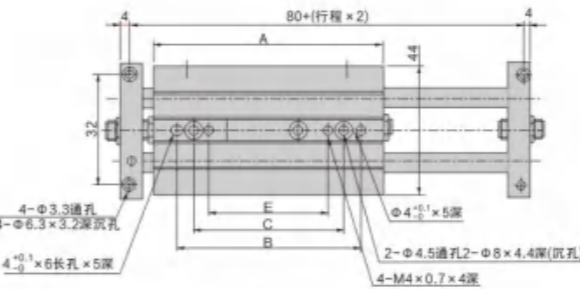
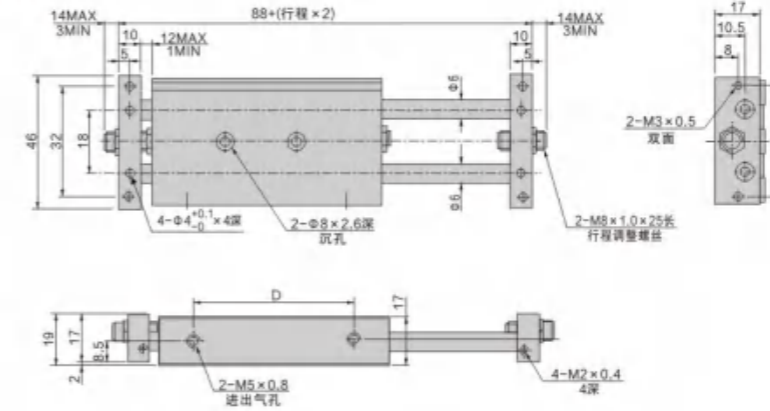


### ● 气缸理论出力表

气缸内径 (mm)	活塞杆外径 (mm)	动作型式	受压面积 (mm <sup>2</sup> )	空气压力MPa						
				0.1	0.2	0.3	0.4	0.5	0.6	0.7
10	6	复动	100.5	10.1	20.1	30.2	40.2	50.3	60.3	70.4
16	8	复动	301.6	30.2	60.3	90.5	120.6	150.8	181.0	211.1
20	10	复动	471.2	47.1	94.2	141.4	188.5	235.6	282.7	329.9
25	12	复动	755.6	75.6	151.1	226.7	302.2	377.8	453.3	528.9

### ● 外形尺寸 Overall Dimension

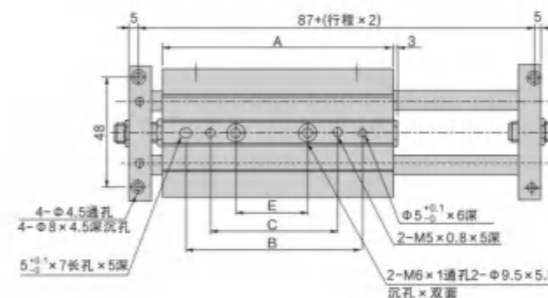
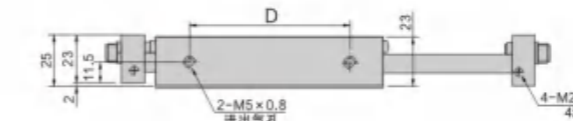
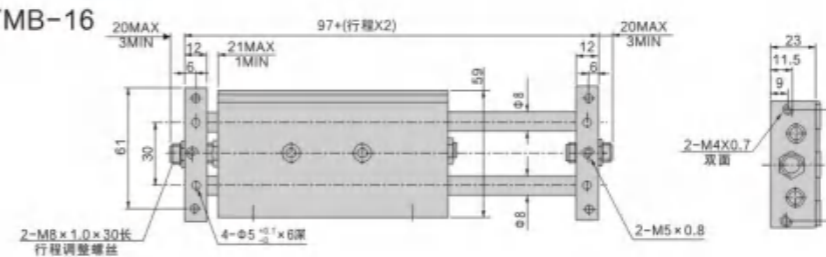
#### STMB-10



符号/行程	25	50	75	100
A	81	106	131	156
B	65	85	85	85
C	35	60	60	60
D	46	71	96	121
E	15	40	40	40

### ● 外形尺寸 Overall Dimension

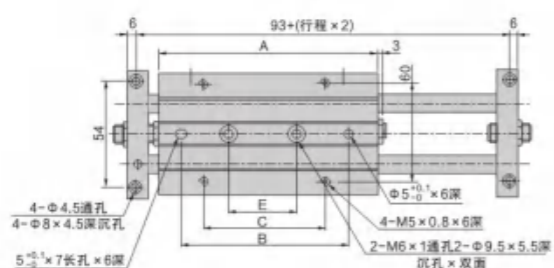
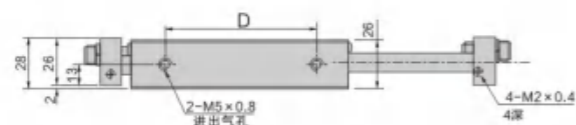
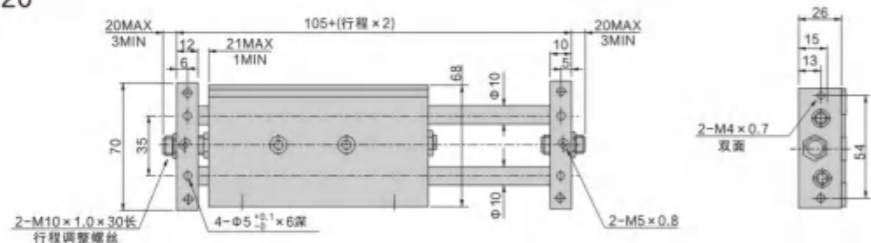
#### STMB-16



符号/行程	A	B	C	D	E
25	86	55	-	48	25
50	111	80	-	73	50
75	136	105	75	98	45
100	161	130	100	123	70
125	186	150	120	148	90
150	211	150	120	173	90
175	236	150	120	198	90
200	261	150	120	223	90

### ● 外形尺寸 Overall Dimension

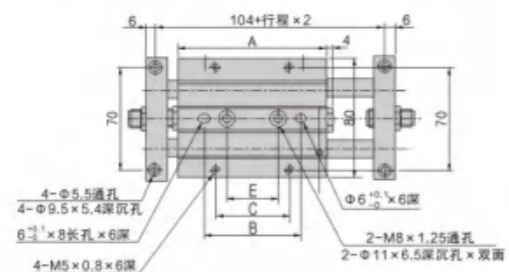
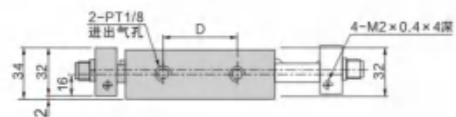
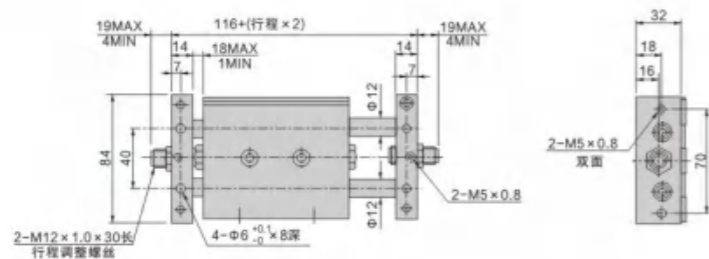
#### STMB-20



符号/行程	A	B	C	D	E
25	94	60	50	53	35
50	119	85	50	78	45
75	144	110	75	103	45
100	169	135	100	128	70
125	194	150	120	153	90
150	219	150	120	178	90
175	244	150	120	203	90
200	269	150	120	228	90
250	319	150	120	278	90

### ● 外形尺寸 Overall Dimension

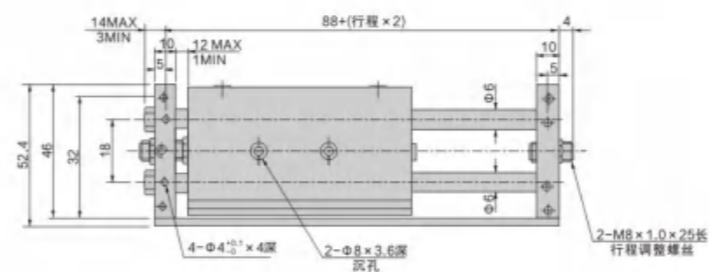
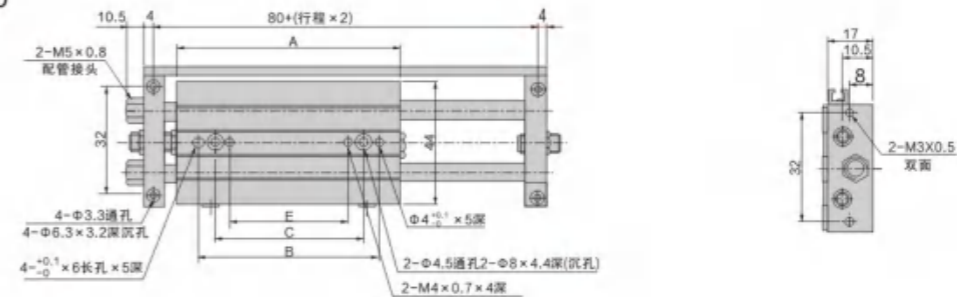
#### STMB-25



符号/行程	A	B	C	D	E
25	101	65	50	50	35
50	126	90	50	75	45
75	151	115	75	100	45
100	176	140	100	125	70
125	201	140	100	150	95
150	226	140	100	175	100
175	251	140	100	200	100
200	276	140	100	225	100
250	326	140	100	275	100

### ● 外形尺寸 Overall Dimension

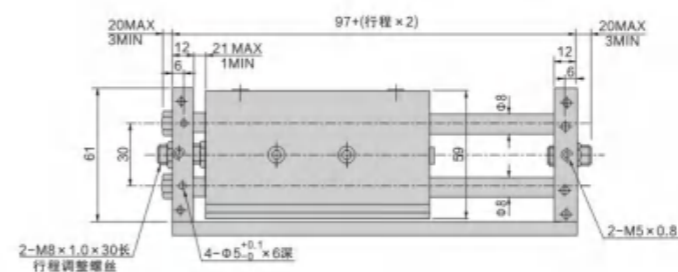
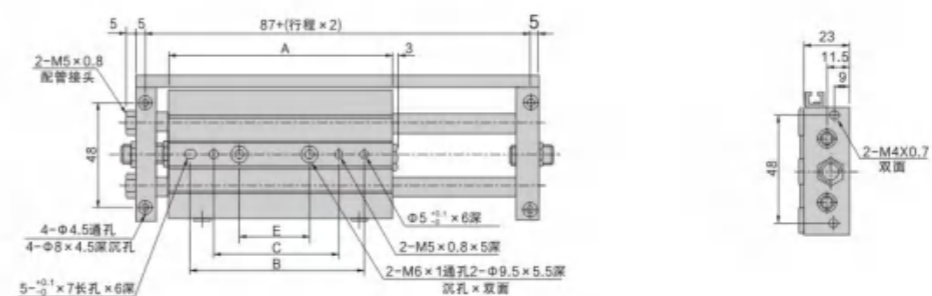
#### STMS-10



符号/行程	25	50	75	100
A	81	106	131	156
B	65	85	85	85
C	35	60	60	60
E	15	40	40	40

### ● 外形尺寸 Overall Dimension

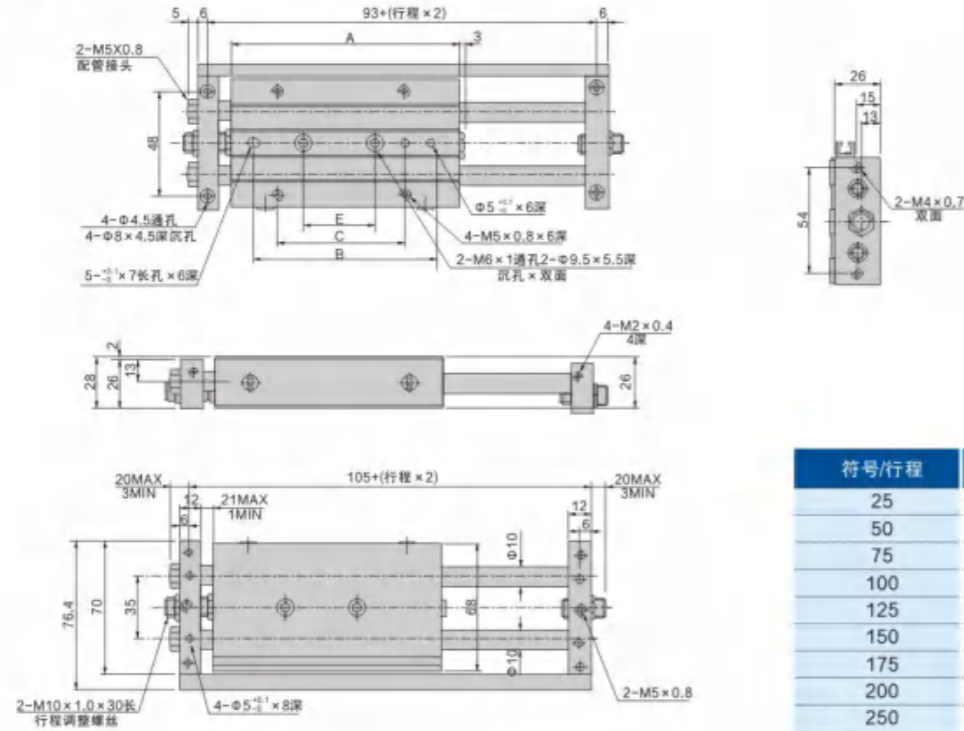
#### STMS-16



符号/行程	A	B	C	E
25	86	55	-	25
50	111	80	-	50
75	136	105	75	45
100	161	130	100	70
125	186	150	120	90
150	211	150	120	90
175	236	150	120	90
200	261	150	120	90

### ● 外形尺寸 Overall Dimension

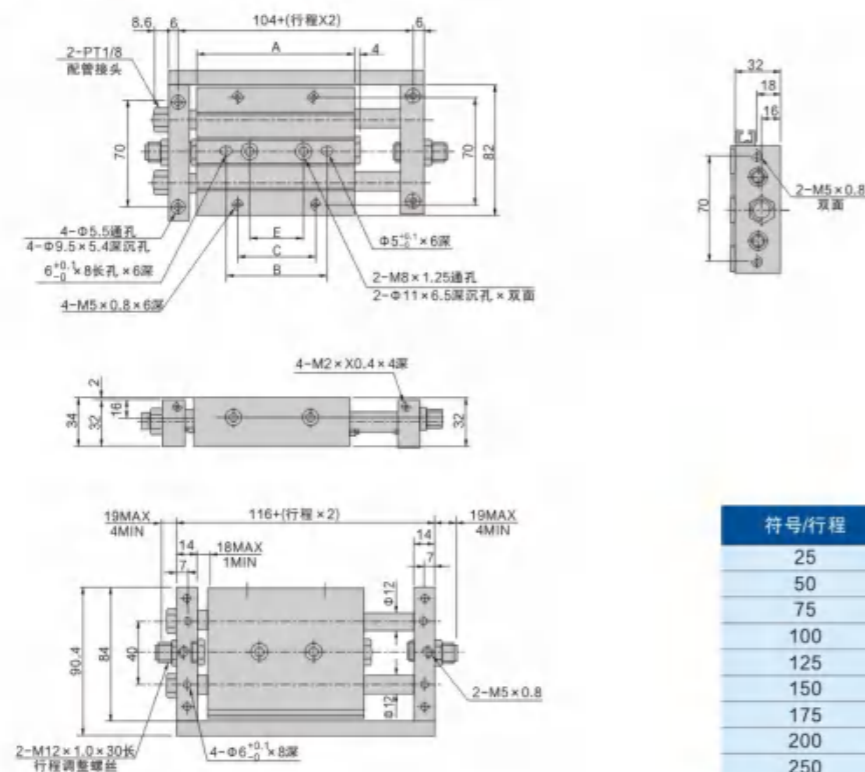
STMS-20



符号/行程	A	B	C	E
25	94	60	50	35
50	119	85	50	45
75	144	110	75	45
100	169	135	100	70
125	194	150	120	90
150	219	150	120	90
175	244	150	120	90
200	269	150	120	90
250	319	150	120	90

### ● 外形尺寸 Overall Dimension

STMS-25



符号/行程	A	B	C	E
25	101	65	50	35
50	126	90	50	45
75	151	115	75	45
100	176	140	100	70
125	201	140	100	95
150	226	140	100	100
175	251	140	100	100
200	276	140	100	100
250	326	140	100	100

### ● 订购码 Ordering Code

CXS	M	10	×	50
系列代号 Series Code	轴承种类 Type of Bearing	缸径 Cylinder Bore		行程 Stroke
内置磁环型 CXS: Attach Magnet Type	M: 滑动轴承 L: 滑珠导向轴承 M: Slide Bearing Type L: Ball Guide Bearing Type	6-φ6mm 10-φ10mm 16-φ16mm 20-φ20mm 25-φ25mm 32-φ32mm		0-100mm



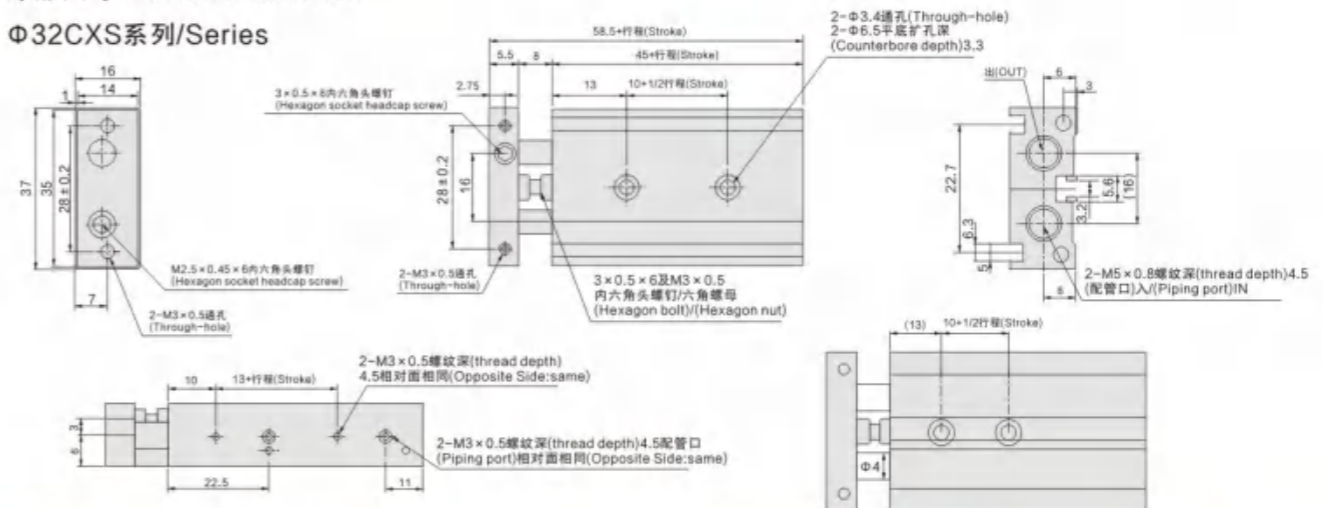
CXSM10 × 50

### ● 规格 Specification

内径/Bore(mm)	6	10	16	20	25	32	
工作介质/Working Medium	空气/Air						
动作型式/Motion Pattern	复动型/Double Action						
保证耐压力/Ensured pressure Resistance	1.05Mpa(10.7kgf/cm <sup>2</sup> )						
最高使用压力/Max.Pressure	0.7Mpa(7.1kgf/cm <sup>2</sup> )						
最低使用压力/Min.Pressure	0.15MPa(1.5kgf/cm <sup>2</sup> )	0.1MPa(1.0kgf/cm <sup>2</sup> )		0.05MPa(0.51kgf/cm <sup>2</sup> )			
使用温度范围/Operating Temperature Range	5~+60°C						
缓冲/Cushion	两端橡胶缓冲/Both Ends Buffer						
结构/Structure	双气缸(两倍出力)/Double Power						
行程调整范围/Stroke Adjustable Range	缩回行程/(Return Stroke)0~5mm						
轴承/Bearing	滑动轴承/滚珠导向轴承/Slide Bearing/Ball Guide Bearing						
活塞杆不转动精度 Precision of Piston Rod Non-Rotating	滑动轴承/Slide Bearing	±0.1	±0.15	±0.13	±0.11	±0.1	±0.08
	滚珠导向轴承/Ball Guide Bearing	±0.1	±0.1	±0.07	±0.06	±0.05	±0.04
接管口径/Port Size	M5 × 0.8					G1/8"	

### ● 外形尺寸 Overall Dimension

φ32CXS系列/Series

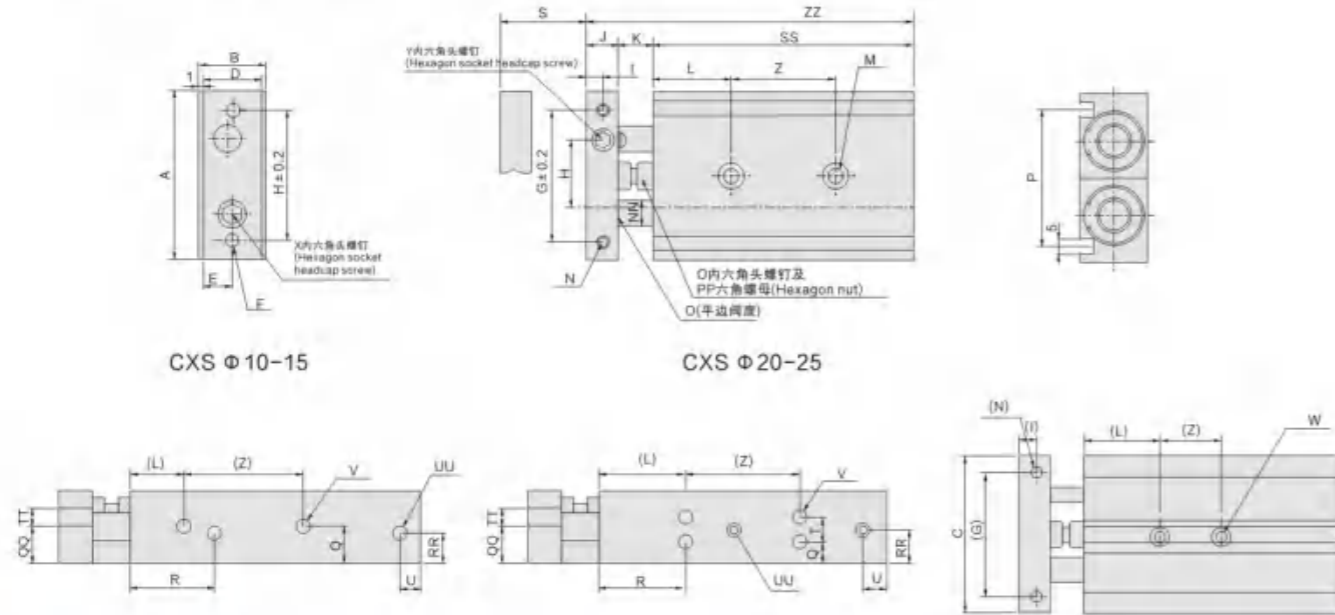


### ● 尺寸表 Dimension Sheet

型号/Model	行程/Stroke	10+1/2行程/Stroke	13+行程/Stroke	45+行程/Stroke	58.5+行程/Stroke
CXS 6-10	10	15	23	55	68.5
CXS 6-20	20	20	33	65	78.5
CXS 6-30	30	25	43	75	88.5
CXS 6-40	40	30	53	85	95.5
CXS 6-50	50	35	63	95	108.5

● 外形尺寸 Overall Dimension

CXS Φ10-15-20-25



● 尺寸表 Dimension Sheet

型号/Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	NN	O	P	
CXS 10-10 /20/30/40/50	46	17	44	15	7.5	2-M4 x 0.7	35	20	4	8	9	20	2-Φ3.4通孔/Through 2-Φ6.5 凹坑深度/Counterbore Depth 3.3	2-M3 x 0.5 螺纹深度/ Thread Depth 5	Φ6	5	M4 x 0.7 x 14.5L	33.6
CXS 15-10 /20/30/40/50	58	20	56	18	9	2-M4 x 0.8	45	25	5	10	9	30	2-Φ4.3通孔/Through 2-Φ8 凹坑深度/Counterbore Depth 4.4	2-M4 x 0.7 螺纹深度/ Thread Depth 6	Φ8	6	M4 x 0.7 x 14.5L	48
CXS 20-10/20 /30/40/50/75/100	64	25	62	23	11.5	2-M4 x 0.8	50	28	6	12	12	30	2-Φ5.5通孔/Through 2-Φ9.5 凹坑深度/Counterbore Depth 5.3	2-M4 x 0.7 螺纹深度/ Thread Depth 6	Φ10	8	M6 x 1.0 x 18.5L	53
CXS 25-10/20 /30/40/50/75/100	80	30	78	28	14	2-M4 x 1.0	60	35	6	12	12	30	2-Φ6.9通孔/Through 2-Φ11 凹坑深度/Counterbore Depth 6.3	2-M5 x 0.8 螺纹深度/ Thread Depth 7.5	Φ12	10	M6 x 1.0 x 18.5L	64
CXS 32-10/20 /30/40/50/75/100	98	38	96	36	18	2-M4 x 1.0	75	44	8	16	14	30	2-Φ6.9通孔/Through 2-Φ11 凹坑深度/Counterbore Depth 6.3	2-M5 x 0.8 螺纹深度/ Thread Depth 8	Φ16	13	M8 x 12.5 x 23L	76

型号/Model	PP	Q	QQ	R	RR	T	TT	U	N	N	N	N	N
CXS 10-10 /20/30/40/50	2-M4 x 0.7	8.5	7	30	7	-	5	8	4-M5 x 0.8 螺纹深度/ Thread Depth 4.5	4-M3 x 0.5 螺纹深度/ Thread Depth 4.5	2-M4 x 0.7 螺纹深度/ Thread Depth 4.5	M3 x 0.5 x 10L	M3 x 0.5 x 5L
CXS 15-10 /20/30/40/50	2-M4 x 0.7	10	10	38.5	10	-	5	8	4-M5 x 0.8 螺纹深度/ Thread Depth 4.5	4-M4 x 0.7 螺纹深度/ Thread Depth 5	2-M5 x 0.8 螺纹深度/ Thread Depth 8	M5 x 0.8 x 10L	M4 x 0.7 x 4L
CXS 20-10/20 /30/40/50/75/100	2-M4 x 1.0	7.75	12.5	45	7.75	9.5	6.5	8	4-M5 x 0.8 螺纹深度/ Thread Depth 4.5	8-M4 x 0.7 螺纹深度/ Thread Depth 6	2-M6 x 1.0 螺纹深度/ Thread Depth 10	M6 x 1.0 x 12L	M5 x 0.8 x 5L
CXS 25-10/20 /30/40/50/75/100	2-M4 x 1.0	8.5	15	46	15	13	9	9	4-1/8 螺纹深度/ Thread Depth 6.5	8-M5 x 0.8 螺纹深度/ Thread Depth 7.5	2-M8 x 1.25 螺纹深度/ Thread Depth 12	M6 x 1.0 x 14L	M6 x 1.0 x 5L
CXS 32-10/20 /30/40/50/75/100	2-M4 x 1.25	9	19	56	19	20	11.5	10	4-1/8 螺纹深度/ Thread Depth 6.5	8-M5 x 0.8 螺纹深度/ Thread Depth 7.5	2-M8 x 1.25 螺纹深度/ Thread Depth 12	M8 x 12.5 x 16L	M8 x 12.5 x 8L

型号/Model	S	SS	Z	ZZ	型号/Model	S	SS	Z	ZZ	型号/Model	S	SS	Z	ZZ	型号/Model	S	SS	Z	ZZ	型号/Model	S	SS	Z	ZZ
CXS 10-10	10	65		82	CXS 15-10	10	70		89	CXS 20-10	10	80		104	CXS 25-10	10	82		106	CXS 32-10	10	92		122
CXS 10-20	20	75	30	92	CXS 15-20	20	80	25	99	CXS 20-20	20	90	30	114	CXS 25-20	20	95	30	116	CXS 32-20	20	102	40	132
CXS 10-30	30	85		102	CXS 15-30	30	90		109	CXS 20-30	30	100		124	CXS 25-30	30	102		126	CXS 32-30	30	112		142
CXS 10-40	40	95	40	112	CXS 15-40	40	100	35	119	CXS 20-40	40	110	40	134	CXS 25-40	40	112	40	136	CXS 32-40	40	122	50	152
CXS 10-50	50	105		122	CXS 15-50	50	110		129	CXS 20-50	50	120		144	CXS 25-50	50	122		146	CXS 32-50	50	132		162
										CXS 20-75	75	145	60	169	CXS 25-75	75	147	60	171	CXS 32-75	75	157		187
										CXS 20-100	100	170		194	CXS 25-100	100	172		196	CXS 32-100	100	182	70	212

● 订购码 Ordering Code

CXS	W	M	10	×	50
型号 Model	轴头型式 Rod style	轴承种类 Bearing	缸径 Bore		行程 Stroke
	W: 双轴头 W: Double rod	M: 滑动轴承 L: 滚珠导向轴承 M: Slide bearing L: Ball guide bearing			



CXSW10 x 50

● 规格 Specification

缸径 Bore (mm)	6	10	15	20	25	32
工作介质 Working Fluid	空气 Air					
动作型式 Action	双动 Double action					
耐压 Mpa (kgf/cm <sup>2</sup> )	1.05					
工作压力 working pressure Mpa(kgf/cm <sup>2</sup> )	0.7					
最低工作压力 Min working pressure Mpa(kgf/cm <sup>2</sup> )	0.15			0.1		
工作温度 Working temperature	0~+60°C					
缓冲 Cushion	两端橡胶缓冲 Rubber bumper on both ends					
结构 Constructure	双气缸(2倍出力) Double cylinder (twice strength)					
*润滑 Lubrication	不需要 No need					
行程调校范围 Stroke adjustable range	0~10mm					
轴承 Bearing	滑动轴承/滚珠导向轴承 Ball Bushing Bearing					
接管口径 Rc (PT) Portsiza	M5 x 0.8				Rc(PT)1/8	

\*如需润滑, 请用透平1号油ISOVG32. If need, suggest NO1ISOYG32 cubrication

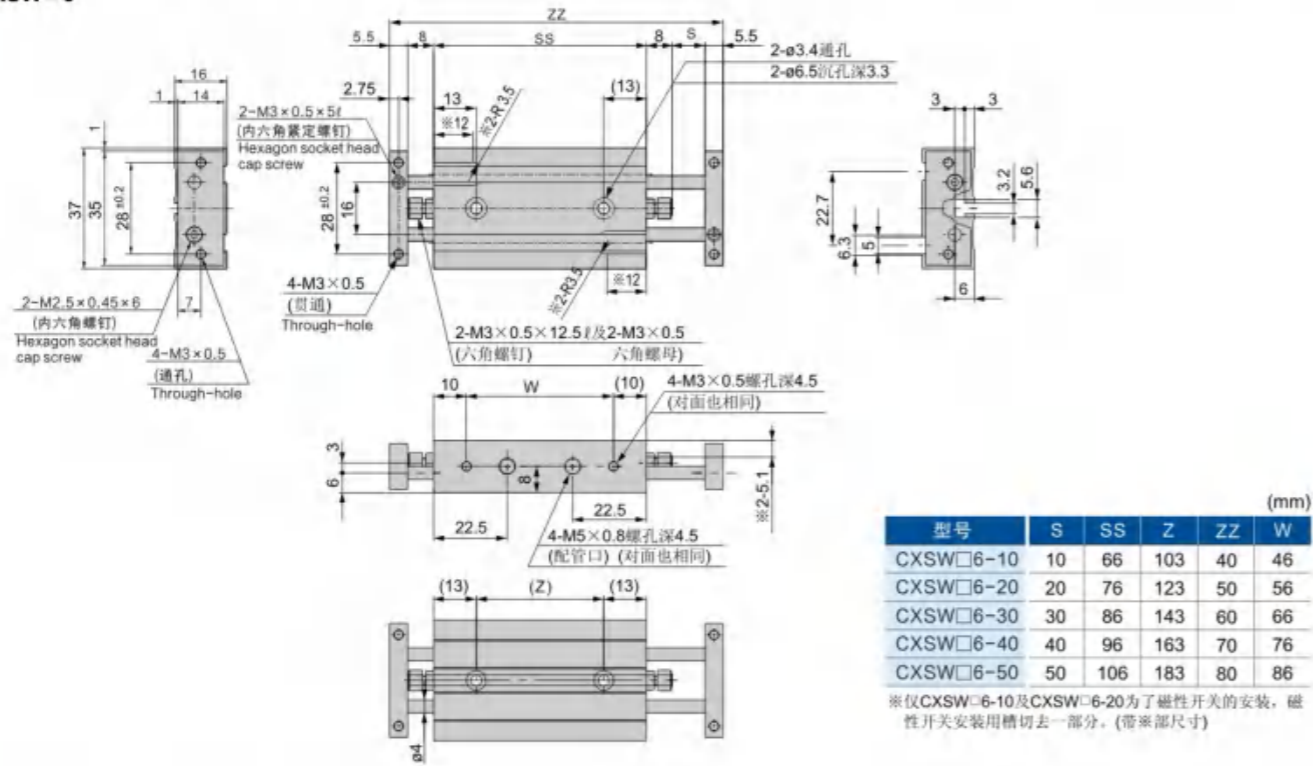
● 标准行程表

型号	标准行程	长行程
CXSW□6	10,20,30,40,50	
CXSW□10		75,100,125,150
CXSW□15	10,20,30,40,50	
CXSW□20		125,150,175,200
CXSW□25	10,20,30,40,50,75,100	
CXSW□32		

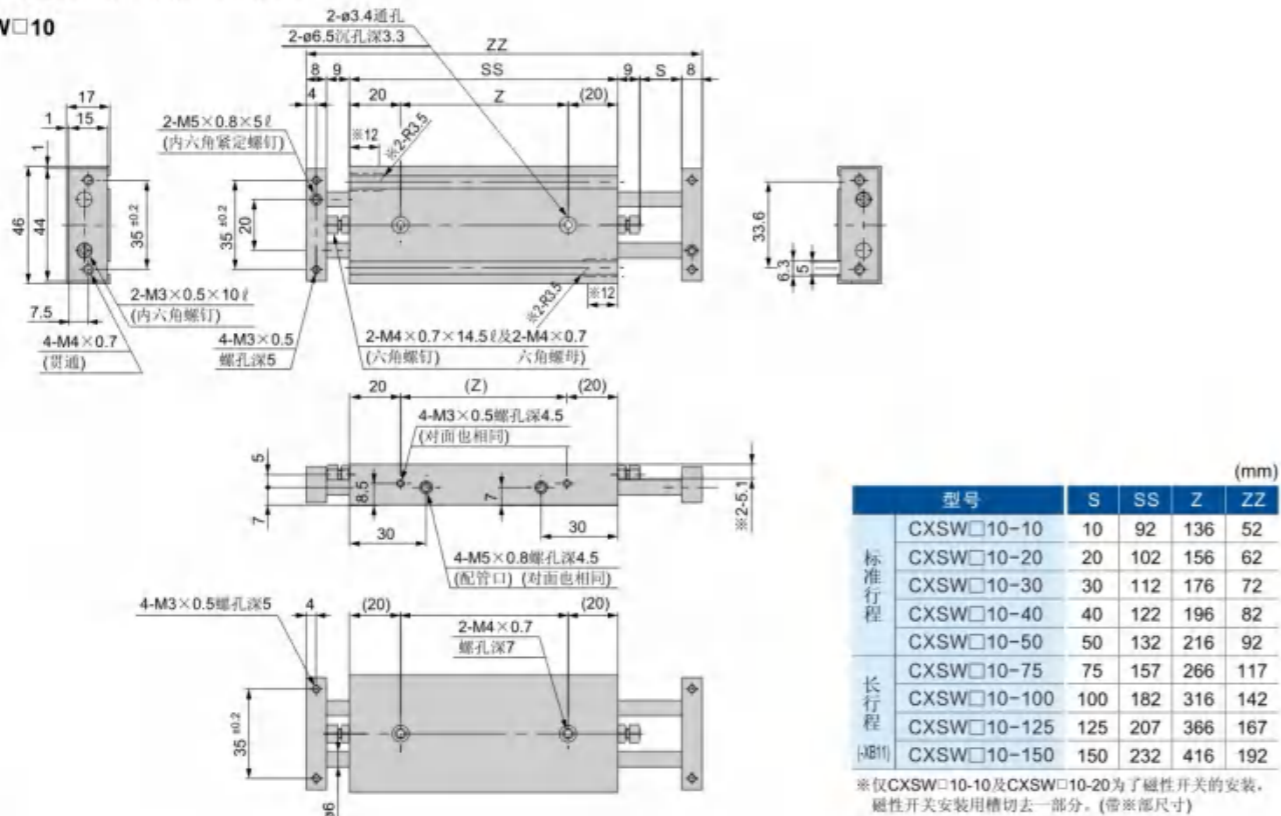
● 理论出力表

型号	杆径(mm)	受压面积(mm <sup>2</sup> )	使用压力(MPa)						
			0.1	0.2	0.3	0.4	0.5	0.6	0.7
CXSW□6	4	31	4.6	6.2	9.3	12.4	15.5	18.6	21.7
CXSW□10	6	100	10	20	30	40	50	60	70
CXSW□15	8	252	25.2	50.4	75.6	101	126	151	176
CXSW□20	10	471	47.1	94.2	141	188	236	283	330
CXSW□25	12	756	75.6	151	227	302	378	454	529
CXSW□32	16	1206	121	241	362	482	603	724	844

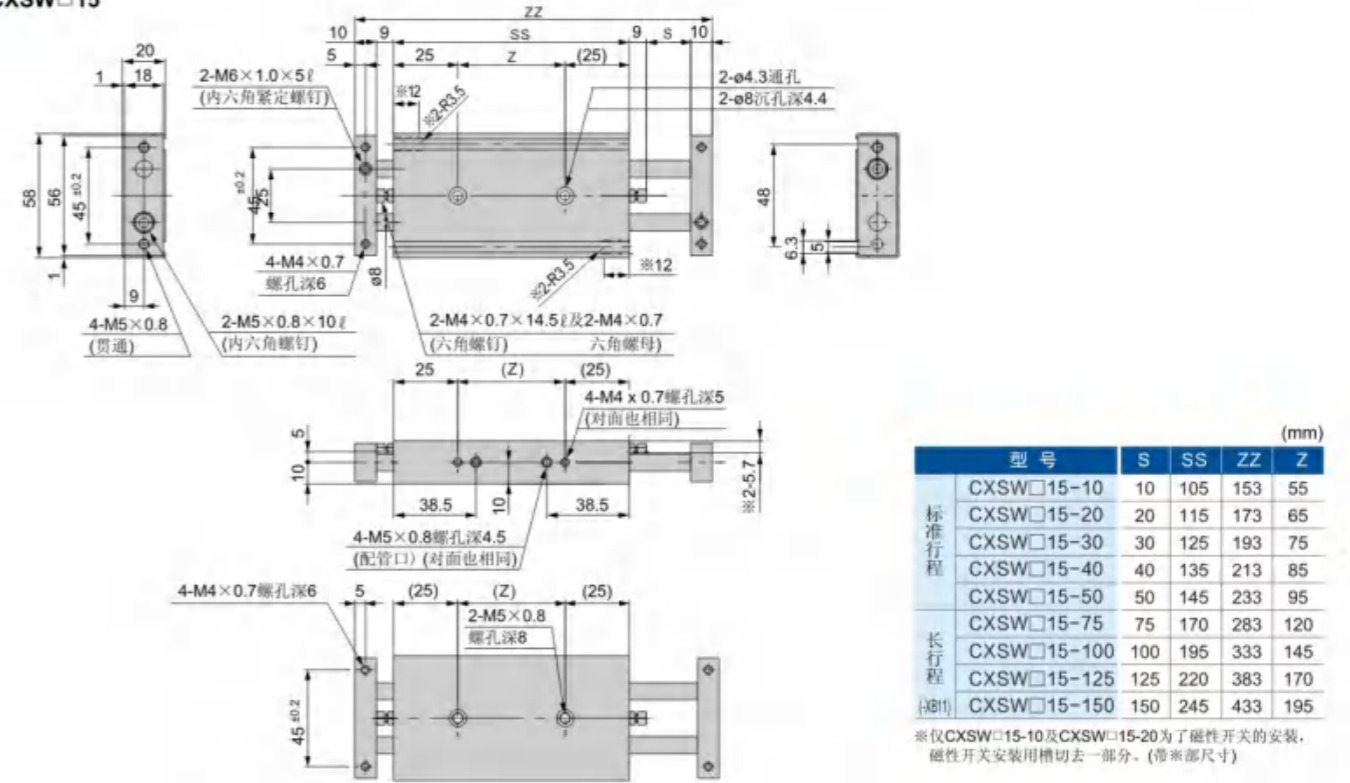
### ● 外形尺寸 Overall Dimension CXSW□6



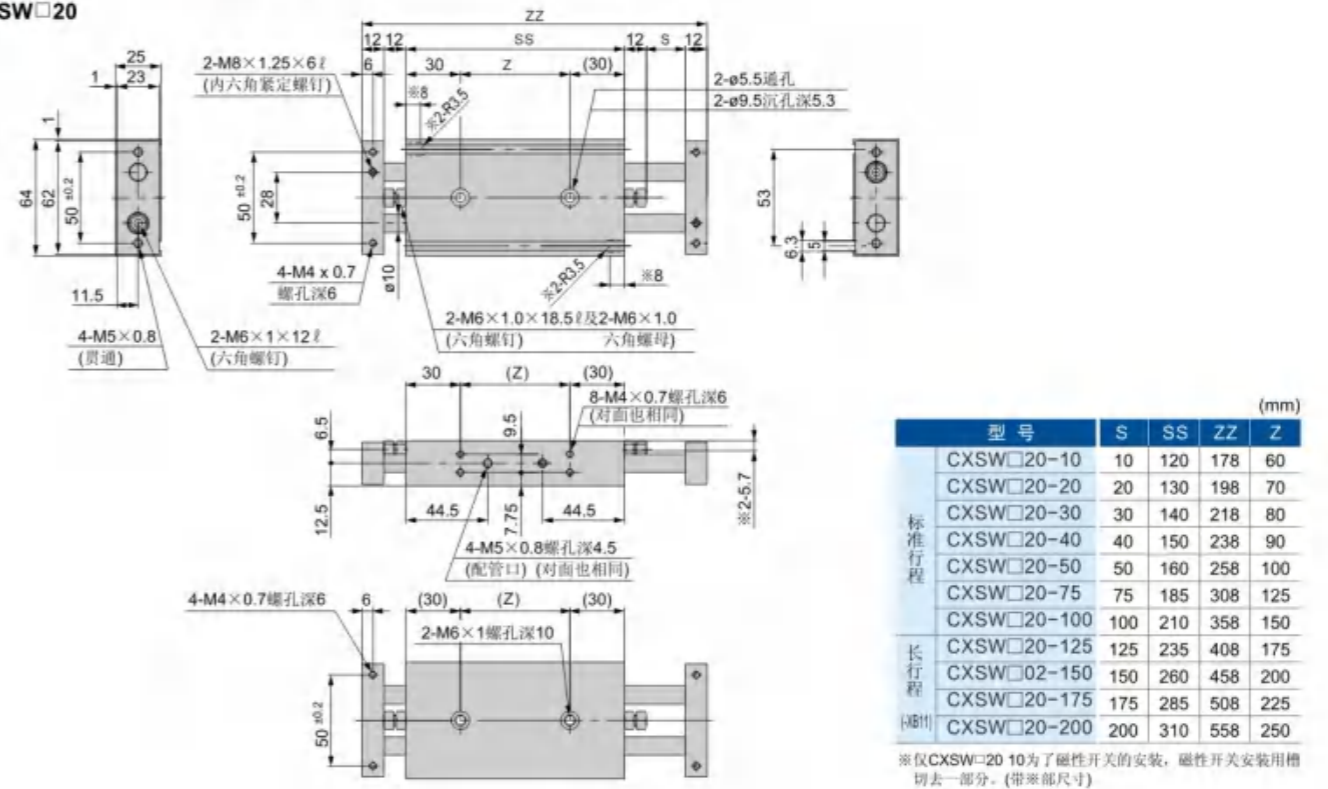
### ● 外形尺寸 Overall Dimension CXSW□10



### ● 外形尺寸 Overall Dimension CXSW□15

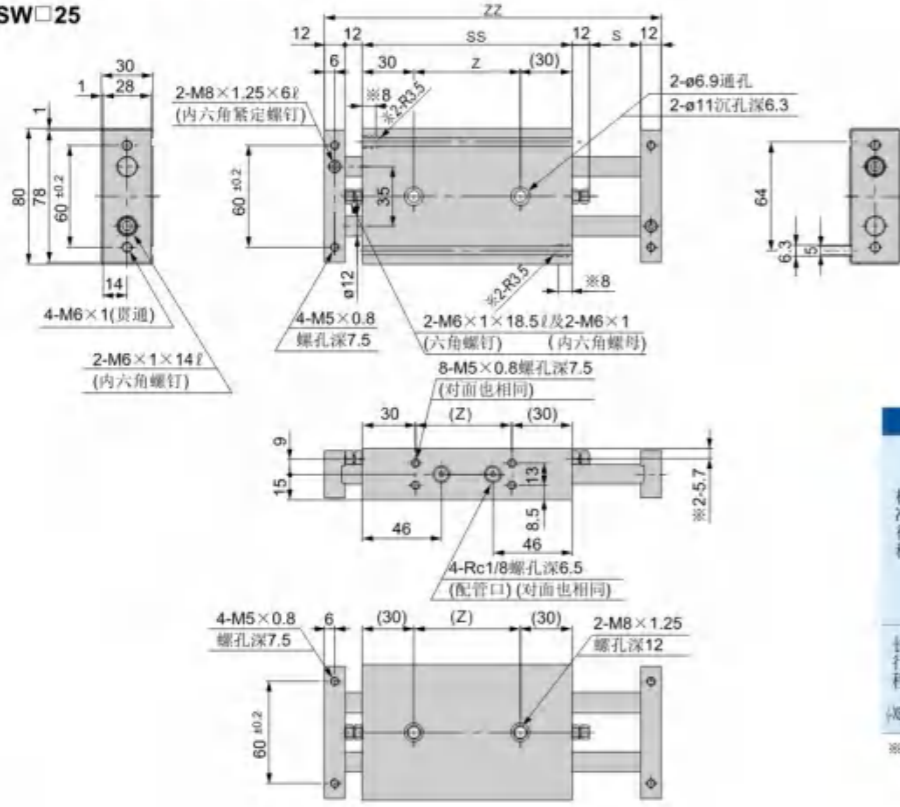


### ● 外形尺寸 Overall Dimension CXSW□20



### ● 外形尺寸 Overall Dimension

#### CXSW□25

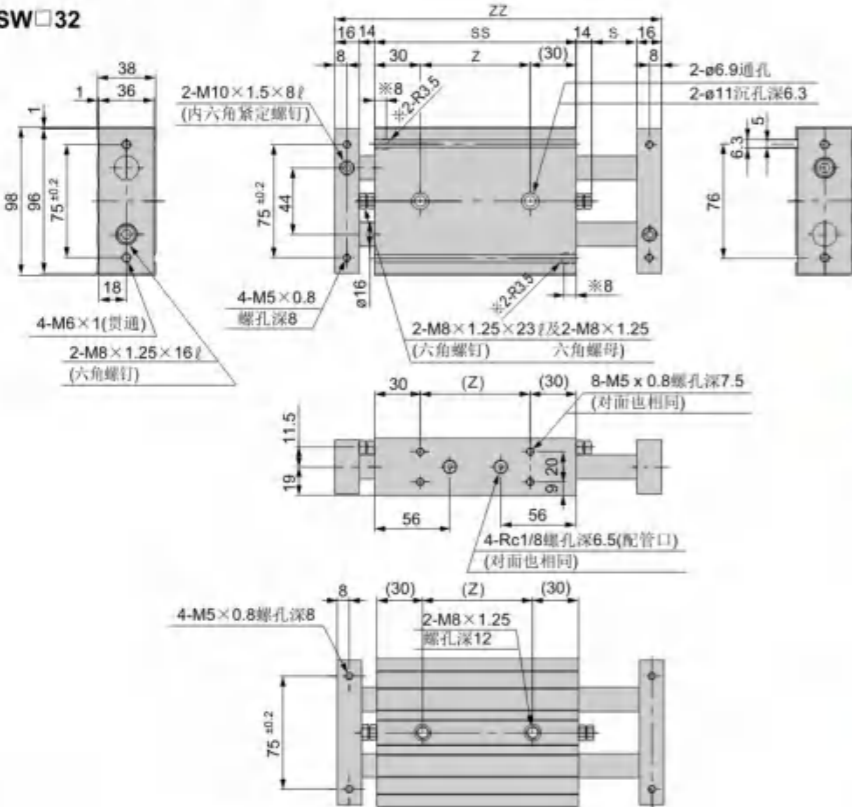


		S	SS	ZZ	Z
标准行程	CXSW□25-10	10	122	180	62
	CXSW□25-20	20	132	200	72
	CXSW□25-30	30	142	220	82
	CXSW□25-40	40	152	240	92
	CXSW□25-50	50	162	260	102
长行程	CXSW□25-125	125	237	410	177
	CXSW□25-150	150	262	460	202
	CXSW□25-175	175	287	510	227
	CXSW□25-200	200	312	560	252

※仅CXSW25-10为了磁性开关的安装, 磁性开关安装用槽切去一部分。(带※部尺寸)

### ● 外形尺寸 Overall Dimension

#### CXSW□32



		S	SS	ZZ	Z
标准行程	CXSW□32-10	10	143	213	83
	CXSW□32-20	20	153	233	93
	CXSW□32-30	30	163	253	103
	CXSW□32-40	40	173	273	113
	CXSW□32-50	50	183	293	123
长行程	CXSW□32-75	75	208	343	148
	CXSW□32-100	100	233	393	173
	CXSW□32-125	125	258	443	198
	CXSW□32-150	150	283	493	223
	CXSW□32-175	175	308	543	248
※	CXSW□32-200	200	333	593	273

※仅CXSW□32-10为了磁性开关的安装, 磁性开关安装用槽切去一部分。(带※部尺寸)



MGP32 x 50



MGPL32 x 100

### ● 订购码 Ordering Code

MGP	M	32	50	MT
轴承种类 Type Bearing				
M: 滑动轴承 L: 球轴承 M: Slide bearing L: Ball guide bearing		缸径 Type Bearing	行程 Stroke	磁性开关的型号 Sensor
		12 16 20 25 32 40 50 63 80 100		D-Z73 *标准线长1M特殊另订购 *Standard wire is 1 meter, please order for other length

### ● 性能特点 Features

- 体积小、轻巧  
Light weight and compact.
- 耐横向负载能力强  
Strong transverse load capacity.
- 耐扭矩能力强  
Strong torque capacity.
- 不回转精度高  
High Non-rotating precision.
- 导向杆的轴承可选择滑东轴承或球轴承  
Either ball joint or slide joint are available for directional bearing for directional rod.
- 安装方便  
Easy for installation.
- 二面接管位置可供选择  
Position of both side ports are changeable.

### ● 规格 Specification

缸径 Bore(mm)	12	16	20	25	32	40	50	63	80	100
使用液体 Operation Fluid	空气 Air									
动作方式 Operation	双作用 Double Acting									
耐压试验压力 Anti-pressure testing pressure	1.5MPa(15.3kgf/cm <sup>2</sup> )									
最高使用压力 Max. Operation Pressure	1.0MPa(10.2kgf/cm <sup>2</sup> )									
最低使用压力 Min. Operation Pressure	0.12MPa(1.2kgf/cm <sup>2</sup> )									
环境和流体温度 Ambient and fluid temperature	5~+60°C									
活塞速度 Piston Speed	50~500mm/s								50~400mm/s	
缓冲 Buffer	橡胶缓冲 Rubber Buffer									
行程公差 Stroke Tolerance	+1.5mm 0									
*给油 Lubrication	不需要 Non-lub									
轴承 Bearing	滑动轴承/球轴承 Slidable bearing/Ball Bearing									
活塞杆不回转精度 Non-rotating rod precision	滑动轴承 Slidable bearing		±0.08°	±0.07°	±0.06°	±0.05°	±0.04°			
	球轴承 Ball Bearing		±0.10°	±0.09°	±0.08°	±0.06°	±0.05°			
接管口径 Rc Port Size Rc(PT)	M5×0.8			1/8"			1/4"		3/8"	

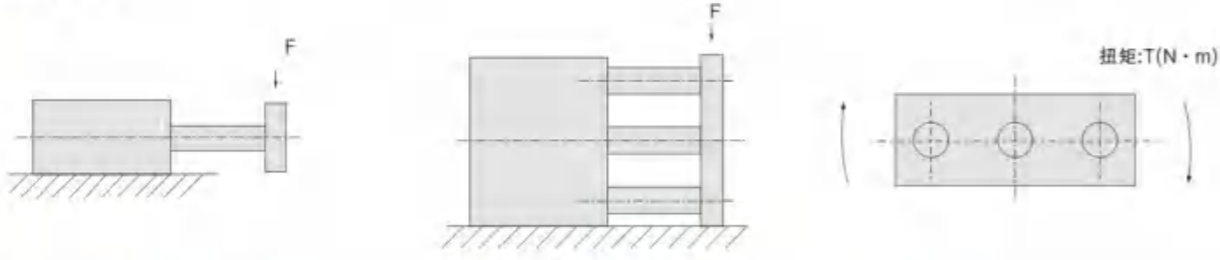
\*如需给油, 请用透平油1号油ISOVG32. If lubricant is demanded, please choose clear No.1 lubricant, ISOVG32.

### ● 行程 Stroke

缸径 Bore(mm)	标准行程 Standard Stroke*(mm)	磁性开关型号(轨道安装) Sensor Switch Optional Model( For slide installation)
12,16	10,20,30,40,50,75,100	D-Z73L D-Z76L D-Z80L D-Y59AL D-Y59BL
20,25	20,30,40,50,75,100,125,175,200	
32,40,50,63,80,100	20,50,75,100,125,150,175,200	

\*中间行程(5,10,20,30,35.....)是加5,10,15,20mm厚的垫板, 例如, MGP50-10是加15mm厚的垫板在MGP50-25之内  
Strokes (from 5, 10, 20, 30, 35.....) are added with 5, 10, 15, 20 mm thick gasket respectively, ex: MGP50-10 is with 15 mm thickness gasket (MGP50-25).

● 负载及扭矩



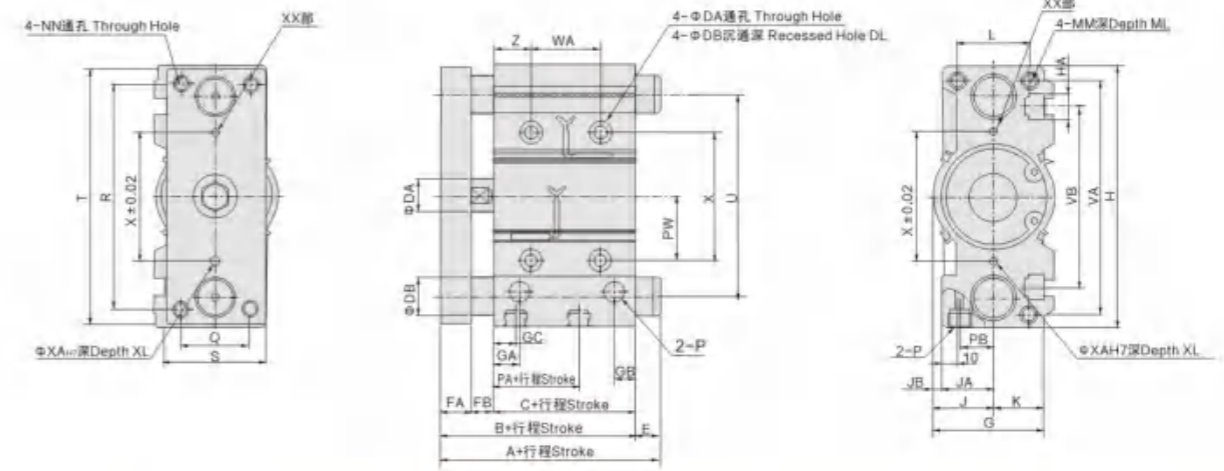
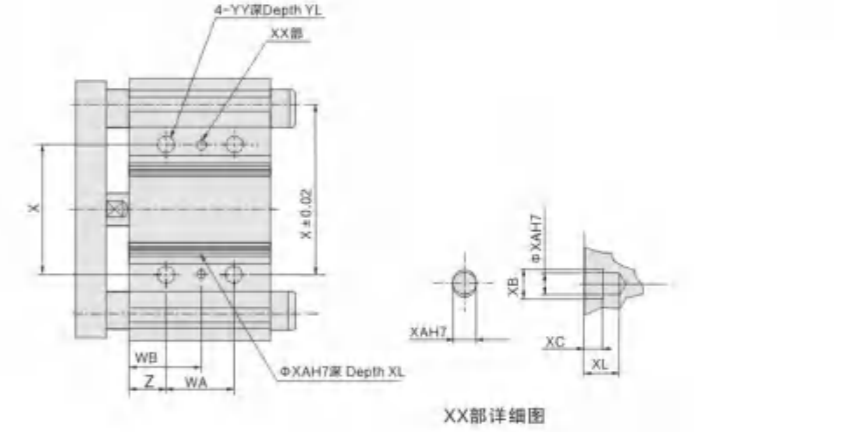
缸径 Bore (mm)	系列 Series	最大横向负载 Max. Transverse Load F(N)											
		行程 Stroke (mm)											
		10	20	25	30	40	50	75	100	125	150	175	200
12	MGPM	24	19	-	17	14	13	26	22	-	-	-	-
	MGPL	37	27	-	22	35	30	23	18	-	-	-	-
16	MGPM	38	31	-	27	23	21	37	32	-	-	-	-
	MGPL	54	40	-	32	54	47	35	28	-	-	-	-
20	MGPM	-	49	-	43	38	35	87	75	66	59	54	49
	MGPL	-	58	-	48	101	90	70	58	62	54	48	43
25	MGPM	-	69	-	60	54	49	116	100	88	79	71	65
	MGPL	-	82	-	68	132	118	93	77	80	70	62	55
32	MGPM	-	-	203	-	-	164	182	159	142	127	116	106
	MGPL	-	-	113	-	-	78	164	107	130	114	101	90
40	MGPM	-	-	203	-	-	164	182	159	142	127	116	106
	MGPL	-	-	113	-	-	78	163	106	130	114	101	90
50	MGPM	-	-	296	-	-	245	273	241	216	195	179	164
	MGPL	-	-	120	-	-	83	223	148	148	129	114	102
63	MGPM	-	-	296	-	-	245	273	241	216	195	179	164
	MGPL	-	-	117	-	-	81	176	145	145	126	111	99
80	MGPM	-	-	352	-	-	297	368	329	298	272	251	232
	MGPL	-	-	125	-	-	99	281	240	208	184	163	147
100	MGPM	-	-	515	-	-	445	498	450	410	377	349	325
	MGPL	-	-	138	-	-	108	395	340	297	263	235	211

● 最大扭矩 T(N·m)

缸径 Bore (mm)	标准行程 Standard Stroke	行程 (mm)											
		10	20	25	30	40	50	75	100	125	150	175	200
10	0.39	-	-	-	-	-	-	-	-	-	-	-	-
20	0.32	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-
30	0.27	-	-	-	-	-	-	-	-	-	-	-	-
40	0.24	-	-	-	-	-	-	-	-	-	-	-	-
50	0.21	-	-	-	-	-	-	-	-	-	-	-	-
75	0.43	-	-	-	-	-	-	-	-	-	-	-	-
100	0.36	-	-	-	-	-	-	-	-	-	-	-	-
125	-	-	-	-	-	-	-	-	-	-	-	-	-
150	-	-	-	-	-	-	-	-	-	-	-	-	-
175	-	-	-	-	-	-	-	-	-	-	-	-	-
200	-	-	-	-	-	-	-	-	-	-	-	-	-
0.39	0.32	-	-	-	-	-	-	-	-	-	-	-	-
0.78	0.66	-	-	-	-	-	-	-	-	-	-	-	-
0.69	0.58	-	-	-	-	-	-	-	-	-	-	-	-
1.23	1.06	-	-	-	-	-	-	-	-	-	-	-	-
-	1.05	-	-	-	-	-	-	-	-	-	-	-	-
-	1.70	-	-	-	-	-	-	-	-	-	-	-	-
-	1.76	-	-	-	-	-	-	-	-	-	-	-	-
-	2.80	-	-	-	-	-	-	-	-	-	-	-	-
-	-	6.35	-	-	-	-	-	-	-	-	-	-	-
-	-	4.76	-	-	-	-	-	-	-	-	-	-	-
-	-	7.00	-	-	-	-	-	-	-	-	-	-	-
-	-	5.24	-	-	-	-	-	-	-	-	-	-	-
-	-	13.0	-	-	-	-	-	-	-	-	-	-	-
-	-	7.02	-	-	-	-	-	-	-	-	-	-	-
-	-	14.7	-	-	-	-	-	-	-	-	-	-	-
-	-	77.7	-	-	-	-	-	-	-	-	-	-	-
-	-	22.0	-	-	-	-	-	-	-	-	-	-	-
-	-	10.3	-	-	-	-	-	-	-	-	-	-	-
-	-	38.8	-	-	-	-	-	-	-	-	-	-	-
-	-	13.6	-	-	-	-	-	-	-	-	-	-	-

● 外形尺寸 Overall Dimension

MGP  
Φ12~Φ25



● MGPM, MGPL 尺寸表 Dimension Sheet (Φ12~Φ25)

缸径 Bore (mm)	标准行程 Standard Stroke	B	C	DA	FA	FB	G	GA	GB	H	HA	J	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB	PW	Q
12	10,20,30,40	42	29	6	8	5	26	11	7.5	58	M4	13	13	18	M4×0.7	10	M4×0.7	4.3	8	4.5	M5×0.8	13	8	18	14
16	50,75,100	46	33	8	8	5	30	11	8	64	M4	15	15	22	M5×0.8	12	M5×0.8	4.3	8	4.5	M5×0.8	15	10	19	16
20	20,30,40,50	53	37	10	10	6	36	10.5	8.5	83	M5	18	18	24	M5×0.8	13	M5×0.8	5.6	9.5	5.5	RC1/8	12.5	10.5	25	18
25	75,100,125,150,175,200	53.5	37.5	12	10	6	42	11.5	9	93	M5	21	21	30	M6×1.0	15	M6×1.0	5.6	9.5	5.5	RC1/8	12.5	13.5	28.5	26

缸径 Bore (mm)	标准行程 Standard Stroke	行程 (mm)											WA		WB		X	YA	YB	YY	YC	YL	YL	Z
		R	S	T	U	VA	VB	30st以下 Below	40st至100st 100st	125st或以上 For above	30st以下 Below	40st至100st 100st	125st或以上 For above											
12	10,20,30,40,50,75,100	48	22	56	41	50	37	20	40	-	15	25	-	23	3	3.5	M5×0.8	3	6	10	5			
16	20,30,40,50,75,100	54	25	62	46	56	38	24	44	-	17	27	-	24	3	3.5	M5×0.8	3	6	10	5			
20	20,30,40,50,75,100,125,150,175,200	70	30	81	54	72	44	24	44	120	29	39	77	28	3	3.5	M6×1.0	3	6	12	17			
25	100,125,150,175,200	78	38	91	64	82	50	24	44	120	29	39	77	34	4	4.5	M6×1.0	3	6	12	17			

● MGPM(滑动轴承) (Slidable Bearing)

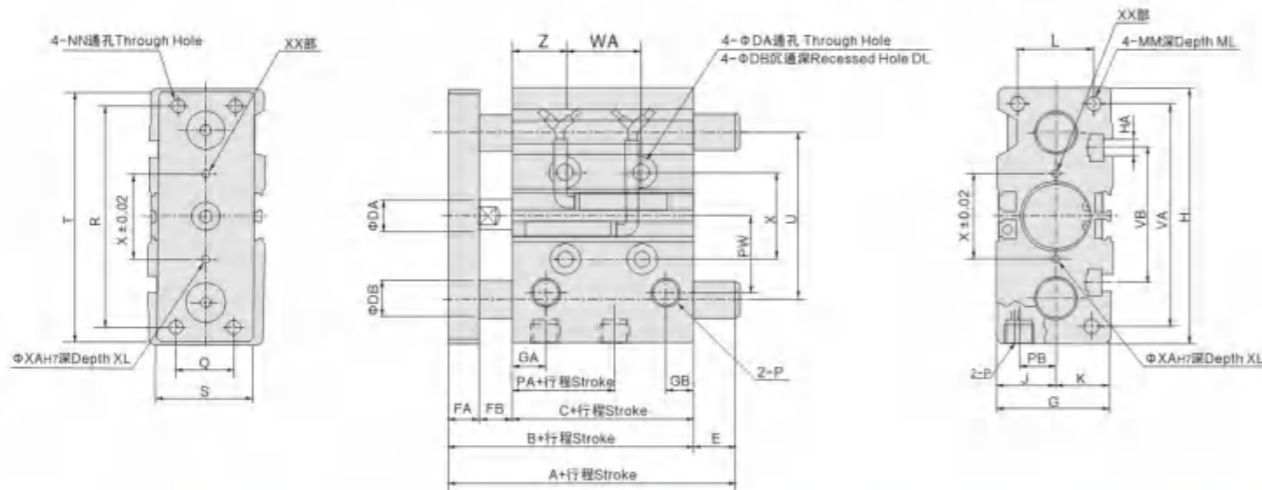
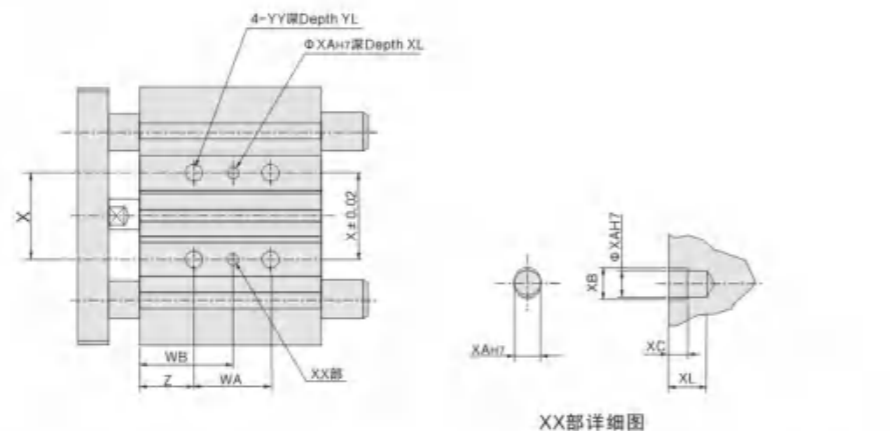
缸径 Bore (mm)	A		DB	E	
	50st以下 Below	50st以上 Above		50st以下 Below	50st以上 Above
12	42	60.5	8	0	18.5
16	46	64.5	10	0	18.5
20	53	84.5	12	0	31.5
25	53.5	85	16	0	31.5

● MGPL(球轴承) (Ball Bearing)

缸径 Bore (mm)	A			DB	E		
	30st以下 Below	30st至100st 100st	100st或以上 or Above		30st以下 Below	30st至100st 100st	100st或以上 or Above
12	43	55	85	6	1	13	43
16	49	65	95	8	3	19	49
20	63	80	104	10	10	27	51
25	69.5	80.5	104.5	13	16	32	51

● 外形尺寸 Overall Dimension

MGP  
Φ32~Φ63



● MGPM, MGPL尺寸表 Dimension Sheet(Φ32~Φ63)

缸径 Bore (mm)	标准行程 Standard Stroke	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB	PW	Q
32	25,50,75, 100,125,150, 175,200	59.5	37.5	16	12	10	48	12.5	112	9	112	M6	24	24	34	M8×1.25	20	M8×1.25	6.6	11	7.5	RC1/8	7	15	34	30
40		66	44	16	12	10	54	14	120	10	120	M6	27	27	40	M8×1.25	20	M8×1.25	6.6	11	7.5	RC1/8	13	18	38	30
50		72	44	20	16	12	64	12	148	11	148	M8	32	32	46	M10×1.5	22	M10×1.5	8.6	14	9	RC1/4	9	21.5	47	40
63		77	49	20	16	12	78	16.5	162	13.5	162	M10	39	39	58	M10×1.5	22	M10×1.5	8.6	14	9	RC1/4	14	28	55	50

缸径 Bore (mm)	标准行程 Standard Stroke	R	S	T	U	VA	VB	WA			WB			X	XA	XB	XC	XL	YY	YL	Z
								25st	50,75,100st	100st以上 Above	25st	50,75,100st	100st以上 Above								
32	25,50,75, 100,125, 150,175,200	96	44	110	78	98	63	24	48	124	33	45	83	42	4	4.5	3	6	M8×1.25	16	21
40		104	44	118	86	106	72	24	48	124	34	46	84	50	4	4.5	3	6	M8×1.25	16	22
50		130	60	146	110	130	92	24	48	124	36	48	86	66	5	6	4	8	M10×1.5	20	24
63		130	70	158	124	142	110	28	52	128	38	50	88	80	5	6	4	8	M10×1.5	20	24

● MGPM(滑动轴承)(Slidable Bearing)

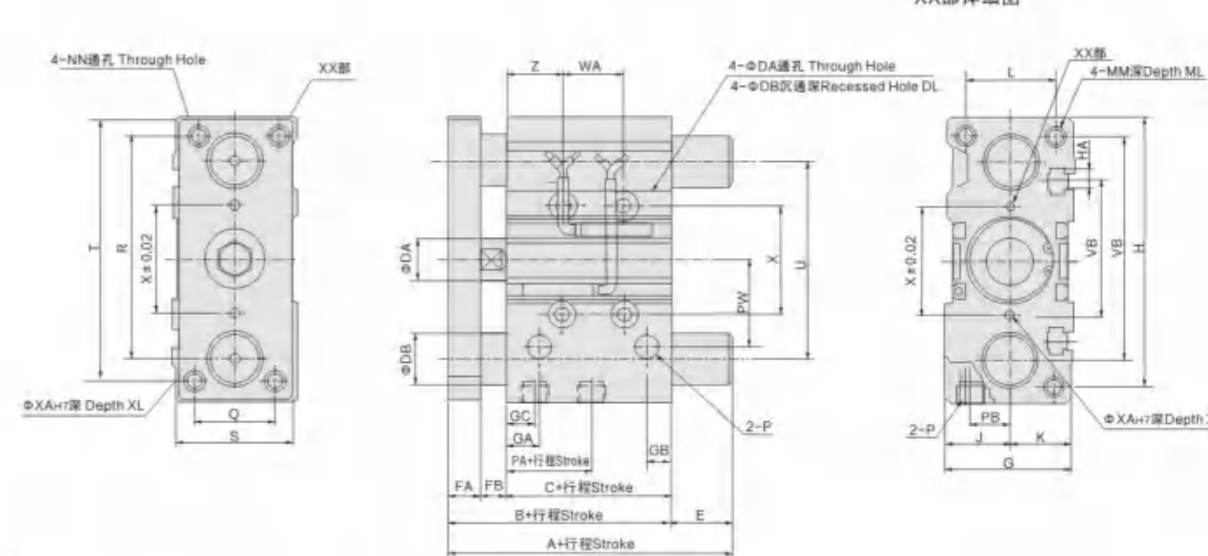
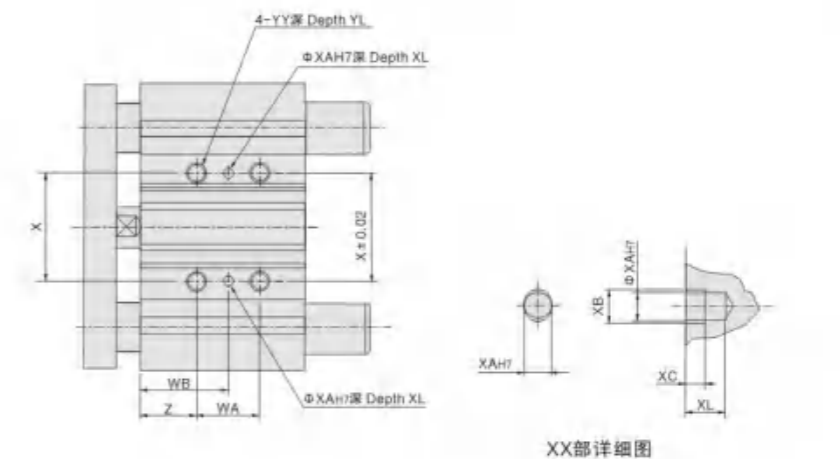
缸径 Bore (mm)	A		DB	E	
	25,50st	50st以上 Above		25,50st以下 Below	50st以上 Above
32	97	102	20	37.5	42.5
40	97	102	20	31	36
50	106.5	118	25	34.5	46
63	106.5	118	25	29.5	41

● MGPL(球轴承)(Ball Bearing)

缸径 Bore (mm)	A			DB	E		
	50st	75,100st	100st以上 Above		50st	75,100st	100st以上 Above
32	81	98	118	16	21.5	38.5	58.5
40	81	98	118	16	15	32	52
50	93	114	134	20	21	40	62
63	93	114	134	20	16	37	57

● 外形尺寸 Overall Dimension

MGP  
Φ80~Φ100



● MGPM, MGPL尺寸表 Dimension Sheet(Φ80~Φ100)

缸径 Bore (mm)	标准行程 Standard Stroke	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	JA	JB
80	25,50,75, 100,125,150, 175,200	96.5	56.5	25	22	18	91.5	19	15.5	14.5	202	M12	45.5	38	7.5
100		116	66	30	25	25	111.5	23	19	18	240	M14	55.5	45	10.5

缸径 Bore (mm)	标准行程 Standard Stroke	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB	PW	Q
100	56	62	M14×2.0	32	M14×2.0	12.5	20	8	RC3/8	17.5	32.5	89	64	

缸径 Bore (mm)	标准行程 Standard Stroke	R	S	T	U	VA	VB	WA			WB			X	XA	XB	XC	XL	YY	YL	Z
								25st	50,75,100st	100st以上 Above	25st	50,75,100st	100st以上 Above								
80	25,50,75, 100,125,150, 175,200	174	75	198	156	180	140	28	52	128	42	54	92	100	6	7	5	10	M12×1.75	24	28
100		210	90	236	188	210	166	48	72	148	35	47	85	124	6	7	5	10	M14×2.0	28	11

● MGPM(滑动轴承)(Slidable Bearing)

缸径 Bore (mm)	A		DB	E	
	25,50st	50st以上 Above		25,50st以下 Below	50st以上 Above
80	115	142	30	18.5	45.5
100	137	162	36	21	46

● MGPL(球轴承)(Ball Bearing)

缸径 Bore (mm)	A			DB	E		
	25,50st	75,100st	100st以上 Above		25,50st	75,100st	100st以上 Above
80	109.5	130	160	25	13	33.5	63.5
100	121	147	180	30	5	31	64



### ● 性能特点 Features

- 高精度型使用高精度滚珠轴承，故垂直及水平位置精度提高到 ±0.01mm。High precision balls used in bearing, vertical and horizontal precision are up to ±0.01 mm.
- 回转台型，工件安装方便。Rotational type is easy for installation.
- 滚动轴承设计，负载比CRQ系列大3至4倍。Rolling bearing design, load is 3 to 4 times larger than CRQ series.
- 摆动顺滑、准确。Rotation is smooth and accurate.
- 中空轴可用于引入电线或气管。Hollowed center rods for wire or tube to go through.
- 标准带角度调整装置，调节角度范围大。(0~190°) Standard angle adjusting device for wider angle adjustment (0° ~190°).
- 内置磁环，可安装磁性开关。With magnet ring for sensor switch application.

### ● 订购码 Ordering Code

<b>MSQB</b>	<b>10</b>	<b>A</b>	<b>MT</b>
规格代号 Model	大小代号 Bore	缸径 Type	磁性开磁型号 Sensor
	10 70 20 100 30 200 50	A: 带角度调整螺钉 R: 带液压缓冲器 A: With angle adjusting screw R: With hydraulic Cushion device	无记号: 无磁性开关 Blank: Without sensor *磁性开关型号见磁性开关型号表 *标准线长1M, 特殊另订购 *To choose proper sensor switch, please refer to stroke/ sensor switch chart.

### ● 行程/磁性开关型号表 Stroke / Sensor Switch Model

代号 Model	*磁性开关型号(轨道安装) *Sensor Switch Model (For Slide Installation)
10	
20	D-A90L
30	D-A93L
50	D-A96L
70	D-F9NL
100	D-F9BL
200	

### ● 规格 Specification

缸径 Bore (mm)	10	20	30	50	70	100	200
使用流体 Operation Fluid	空气(不给油) Air ( Non-lub )						
动作方式 Operation	双作用 Double Acting						
最高使用压力 Max. Operation Pressure	带角度调整螺钉 With angle adjusting screw 1MPa 带液压缓冲器 With hydraulicCushion 0.6MPa						
最低使用压力 Min. Operation Pressure	0.1MPa						
环境及流体温度 Ambient and fluid temperature	0~60°C						
缓冲 Cushion	橡胶缓冲(标准)/液压缓冲器(可选) Rubber Buffer (Standard) / Hydraulic Cushion device (Optional)						
允许功能 Function	带角度调整螺钉 With angle adjusting screw 0.007J, 0.025J, 0.048J, 0.081J, 0.24J, 0.32J, 0.56J 带液压缓冲器 With hydraulicCushion 0.039J, 0.116J, 0.294J, 1.1J, 1.6J, 2.9J						
角度调节范围 Angle adjusting range	0~190°						
最大摆动角度 Max. rotating angle	190°						
稳定摆动时间范围 Steady rotating Time range	带角度调整螺钉 With angle adjusting screw 0.2~1.0s/90°, 0.2~1.5s/90°, 0.2~2.0s/90°, 0.2~2.5s/90° 带液压缓冲器 With hydraulicCushion 0.2~0.7s/90°, 0.2~1.0s/90°						
缸径 Bore	φ15	φ18	φ21	φ25	φ28	φ32	φ40
接管口径 Port Size	M5×0.8			Rc1/8			

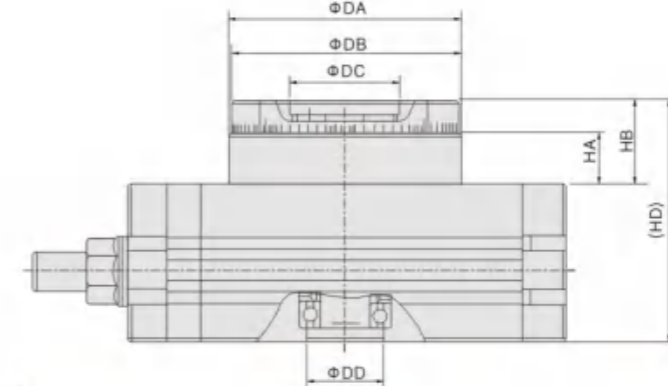
注): 最高使用压力是受液压缓冲器的最大允许负载限制。  
Max. operation pressure is subject to the Max. load of hydraulic Cushion device.

### ● 允许负载重 Max. Load

型号 Model	允许径向负载重(N) Max.honjontal load (N)	允许轴向负载重(N) Max. vertical load (N)		允许弯矩(N.m) Max. bending (N.m)
		(a)	(b)	
MSQ□10□	78	74	78	2.4
MSQ□20□	147	137	137	4.0
MSQ□30□	196	197	363	5.3
MSQ□50□	314	296	451	9.7
MSQ□70□	333	296	476	12.0
MSQ□100□	390	493	708	18.0
MSQ□200□	543	740	1009	25.0

### ● 外形尺寸 Overall Dimension

#### MSQA



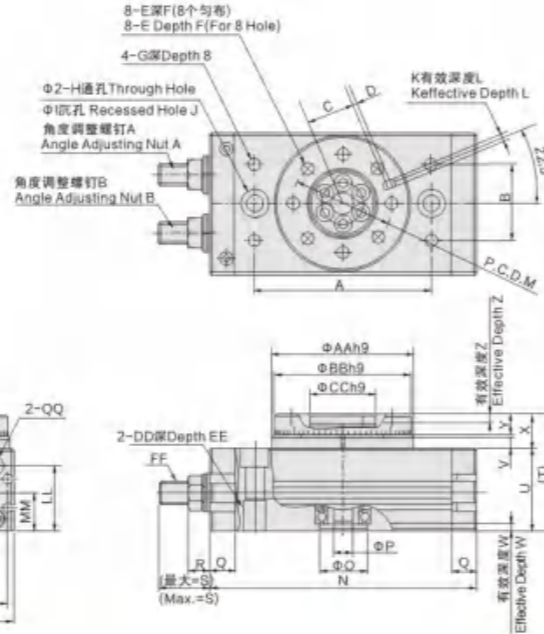
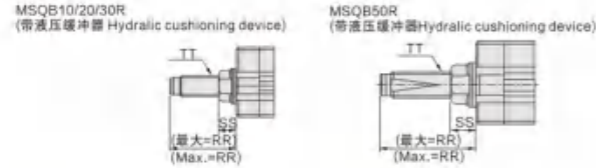
### ● 尺寸表 Dimension Sheet

型号 Model	DA	DB	DC	DD	HA	HB	BD
MSQA10□	46h8	45h8	20H8	15H8	10	18.5	52.5
MSQA20□	61h8	60h8	28H8	17H8	15.5	26	63
MSQA30□	67h8	65h8	32H8	22H8	16.5	27	67
MSQA50□	77h8	75h8	35H8	26H8	17.5	30	76

### ● 外形尺寸 Overall Dimension

MSQB

Φ10.20.30.50



型号 Model	每转1圈的调整角度* Adjusting angle reached per round*
MSQB10□	约 Aboves 10.2°
MSQB20□	约 Aboves 7.2°
MSQB30□	约 Aboves 6.5°
MSQB50□	约 Aboves 8.2°

指角度调整螺钉或液压缓冲器每转动1圈的情况下  
In case of angle adjusting screw or hydraulic cushion twisting one circle.

### ● 尺寸表 Dimension Sheet

型号 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
MSQB10□	60	27	15	2	M5×0.8	8	M5×0.8	6.8	11	6.5	3H9	3.5	32	92	15H9	5	9.5	8.6	17.7	47	34	4.5	3	13	8	4
MSQB20□	76	34	20.5	2	M6×1	10	M6×1	8.6	14	8.5	4H9	4.5	43	117	17H9	9	12	10.6	25	54	37	6.5	2.5	17	10	6
MSQB30□	84	37	23	2	M6×1	10	M6×1	8.6	14	8.5	4H9	4.5	48	127	22H9	9	12	10.6	25	57	40	6.5	3	17	10	4.5
MSQB50□	100	50	26.5	2	M8×1.25	12	M8×1.25	10.5	18	10.5	5H9	5.5	55	152	26H9	10	15.5	14	31.4	66	46	7.5	3	20	12	5

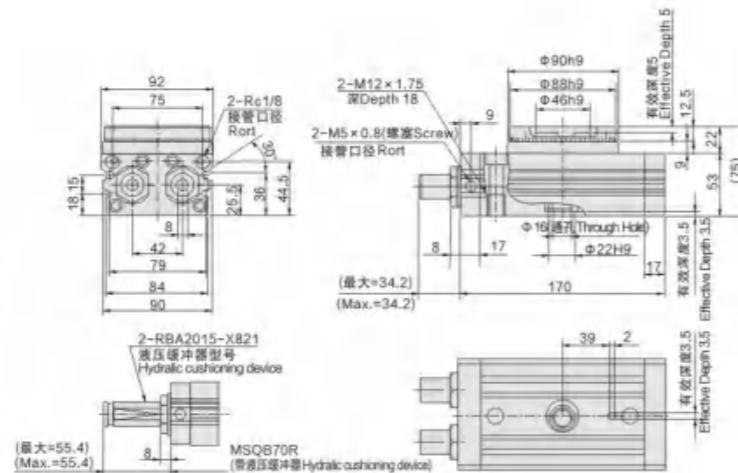
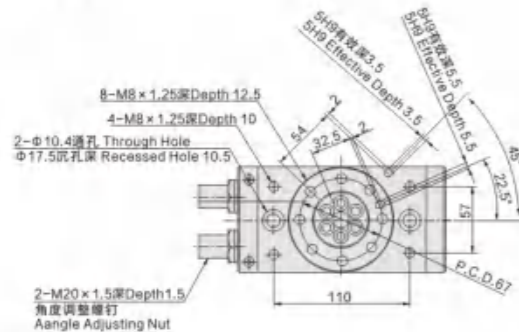
型号 Model	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	液压缓冲器型号 Code of Hydraulic Cushion device
MSQB10□	46	46	20	M8×1.25	12	M8×1	50	45	20	12	4	27.8	15.5	34.5	9	13	M5×0.8	31.5	8.6	M8×1	RBA0805-X692
MSQB20□	61	60	28	M10×1.5	15	M10×1	65	60	27.5	14	5	28.8	16	51	10	12	M5×0.8	34.7	10.6	M10×1	RBA1006-X692
MSQB30□	67	65	32	M10×1.5	15	M10×1	70	65	29	14	5	32	18.5	50	11.5	14	1/8	34.7	10.6	M10×1	RBA1006-X692
MSQB50□	77	75	35	M12×1.75	18	M12×1.5	80	75	38	19	6	37.5	22	63	14.5	15	1/8	51.7	14	M14×1.5	RBA1411-X692

注: 最大的尺寸是在摆动角度在最大时(190°)  
Max. measurement is at Max. rotation angle (190°)

### ● 外形尺寸 Overall Dimension

MSQB

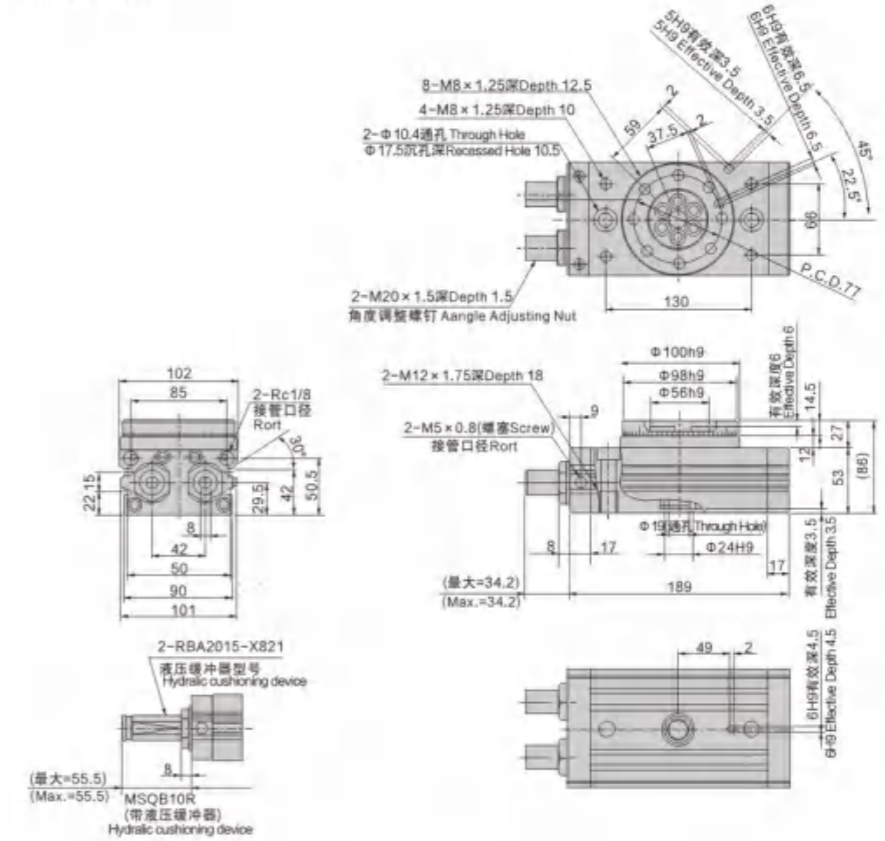
Φ70



### ● 外形尺寸 Overall Dimension

MSQB

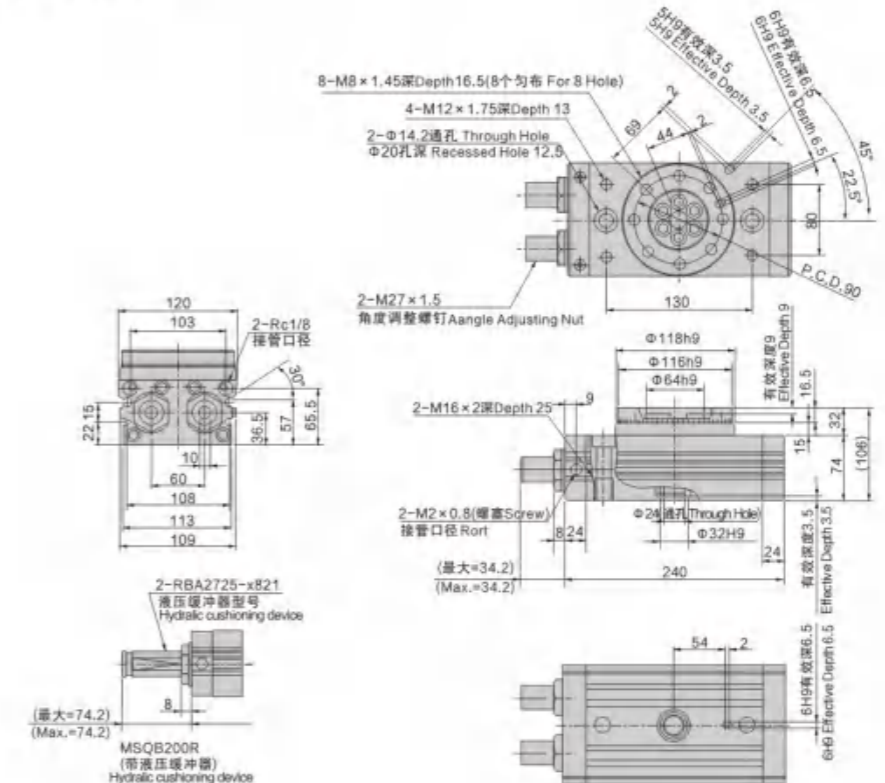
Φ100



### ● 外形尺寸 Overall Dimension

MSQB

Φ200

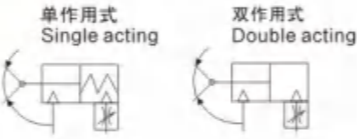




● 订购码 Ordering Code

<b>MHC2</b>	<b>20</b>	<b>D</b>	<b>Y59A</b>	<b>S</b>
支点开闭型 Angular style air gripper	缸径 Bore	动作方式 Action	磁性开关的型号 Auto switch	磁性开关个数 Number of auto switches
	10: 10mm 16: 16mm 20: 20mm 25: 25mm	D: 双作用式 S: 单作用式(常开)	无记号: 无磁性开关 (内置磁环) Nil: Without auto switch (Built-in magnet)	无记号Nil: 2个 pcs. S: 1个 pcs.
		D: Double acting S: Single acting		

图形符号 Symbol



磁性开关型号 Switch type

缸径(mm) Bore	磁性开关的型号 Magnetic Switch
Φ6	M9N(V), M9B(V), M9P(V)
Φ10~Φ25	*在磁性开关型号后面, 附导线长度表示记号 in the back of switch, said mark for wire length Y59A, Y59B, Y69A, Y69B 无记号No mark-0.5m, L-3m, Z-5m 例EX.: Y59AL

● 规格 Specification

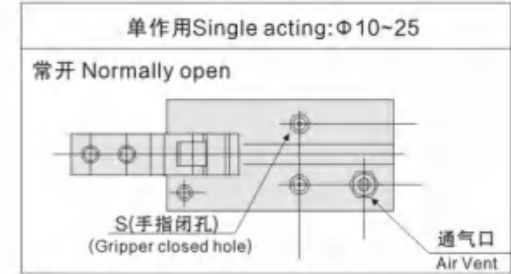
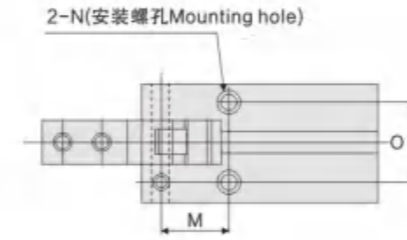
缸径 Bore (mm)	6	7	10	16	20	25
使用流体 Fluid	空气 Air					
使用压力范围(MPa) Operating pressure(Mpa)	单作用式 Single acting	0.3~0.6	0.4~0.6	0.25~0.6		
	双作用式 Double acting	0.15~0.6		0.1~0.6		
环境和流体温度 Ambient and fluid temperature	-10°C~+70°C					
最高使用频率 Max. operating frequency	180c.p.m					
重复精度 Repeat ability (mm)	±0.02			±0.01		
给油 Lubrication	不需要 Not need					

● 夹持力矩 Holding moment

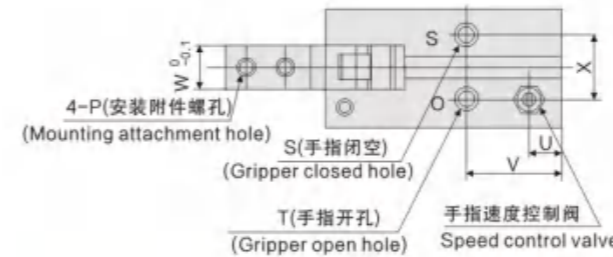
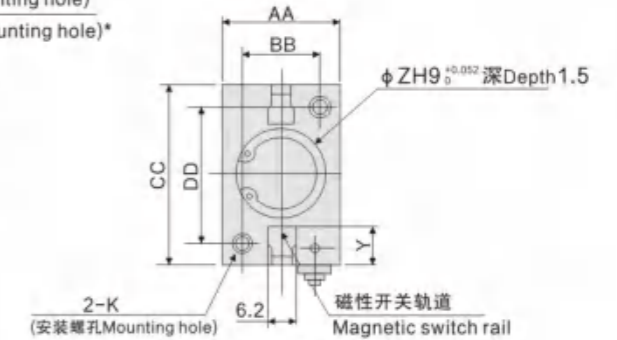
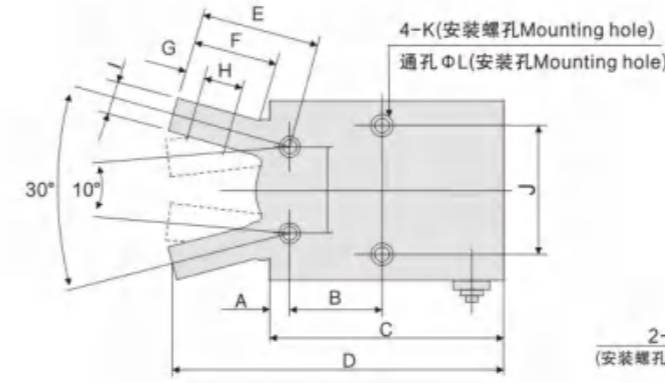
动作方式 Action	型号 Model	缸径Bore size mm	夹持力矩Gripping moment(N·m)	开闭角度(两侧) Opening/closing angle (Both sides)
双作用 Double acting	MHCA2-6D	6	0.038	30° --10°
	MHC2-10D	10	0.1	
	MHC2-16D	16	0.39	
	MHC2-20D	20	0.70	
	MHC2-25D	25	1.36	
单作用 Single acting	MHCA2-6S	6	0.024	30° --10°
	MHCM2-7S	7	0.017	20° --7°
	MHC2-10S	10	0.07	30° --10°
	MHC2-16S	16	0.31	
	MHC2-20S	20	0.54	
	MHC2-25S	25	1.08	

● 外形尺寸 Overall Dimension

双作用 Double acting: Φ6~Φ25



\*如果装上了磁性开关, ΦL安装孔不能使用。  
If installed magnetic switches, L mounting hole can not be used



● 尺寸表 Dimension Sheet

缸径 Bore (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N
6	4	6	29	41	16	11	2.5	5	2	12	M3×0.5通孔Thru.hole	2.6	-	M2×0.4深Depth4
10	2.8	12.8	38.6	52.4	17.2	12	3	5.7	4	16	M3×0.5深Depth5	2.6	8.8	M3×0.5深Depth6
16	3.9	16.2	44.6	62.5	22.6	16	4	7	7	24	M4×0.7深Depth8	3.4	10.7	M4×0.7深Depth8
20	4.5	21.7	55.2	78.7	28	20	5.2	9	8	30	M5×0.8深Depth10	4.3	15.7	M5×0.8深Depth8
25	4.6	25.8	60.4	92	37.5	27	8	12	10	36	M6深Depth12	5.1	19.3	M6深Depth10

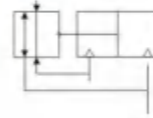
缸径 Bore (mm)	O	P	接管口径 Port size		U	V	W	X	Y	Z	AA	BB	CC	DD	EE
			S	T											
6	5	M2×0.4	M3×0.5		-	-	4	2.1	-	7	10	4	20	13.6	14
10	11.4	M2.5×0.45	M3×0.5		7.2	18.8	6.4	10.4	5.4	11	16.4	12	23	18	10
16	16	M3×0.5	M5×0.8		7	18.3	8	13	5.8	17	23.6	15	30.6	22	16
20	18.6	M4×0.7	M5×0.8		7.5	22.2	10	15	9	21	27.6	18	42	32	20
25	22	M5×0.8	M5×0.8		7.7	23.5	12	20	11.5	26	33.6	22	52	40	25



### 订购码 Ordering Code

<b>MHY2</b>	<b>20</b>	
<b>规格代号 Model</b>	<b>缸径 Bore size</b>	<b>安装型式 The installation type</b>
MHY2: 180° 开闭型气动手指 MHY2: Series Air Gripper (Angle 180 Open & Closed)	10: Φ10mm 16: Φ16mm 20: Φ20mm 25: Φ25mm 32: Φ32mm	空白: 螺孔安装型 N: 开闭方向通孔安装型 Blank: Screw mounting type N: Open and closed direction of through-hole mounting type

### 图形符号 Symbol



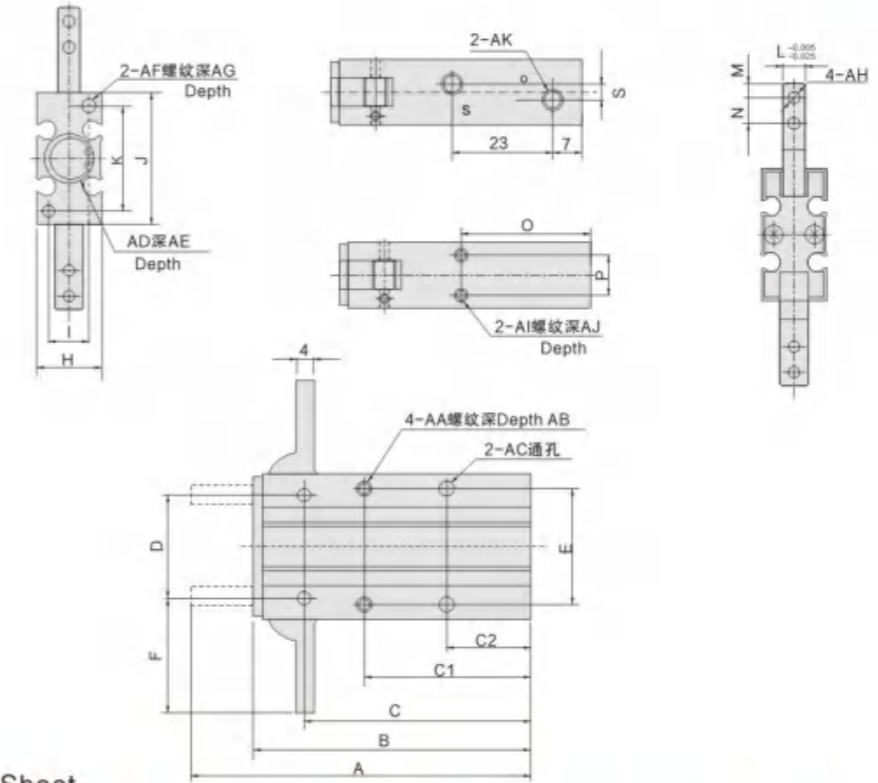
### 产品特性 Product feature

- ◆ 内置磁环型, 可安装磁性开关。 \*180° 开闭式, 简化拾放动作。
- ◆ 可适合特殊环境不使用, 手指开闭部分特别设计, 可防止微小异物进入。
- ◆ 安装方便, 附有定位孔。
- ◆ 所有系列均附磁石, 便于控制。
- ◆ The built-in magnetic ring, magnetic switch can be installed. 180 open and closed, simplify the pick and place oper
- ◆ The built-in magnetic ring, magnetic switch can be installed. 180 open and closed, simplify the pick and place operation
- ◆ It can be stop when in the special environment, because of the special design for gripper opening and closing, it can prevent the tiny foreign into the gripper
- ◆ It have a positioning hole to make the install easily
- ◆ All series have magnet for control

### 规格 Specification

内径Bore size(mm)	10	16	20	25	32
动作型式Acting type	复动型、单动型 Double acting Single acting				
工作介质 Fluid	空气(经40 μ m以上滤网过滤) Air(to be filtered by 40m filter element)				
使用压力范围 Operating pressure	0.1~0.7MPa(15~100psi)(1.0~7.0bar)				
工作温度Temperatur°C	-10°C~+70°C				
给油 Lubrication	气缸: 无需给油; 夹爪: 润滑脂 cylinder:Not required; Gripper jaws:Lubricate grease				
缓冲型式Cushion type	防撞垫 Bumper				
最高使用频率 Max.fraquency	60(c.p,m)				
重复精度Repeat ability	±0.2mm				
夹持力矩Holding moment	0.16N.m	0.55N.m	1.10N.m	2.30N.m	5.20N.m
接管口径Port size	M5×0.8				

### 外形尺寸 Overall Dimension



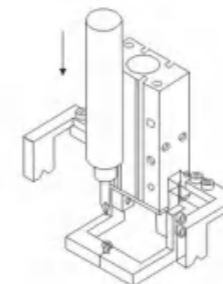
### 尺寸表 Dimension Sheet

缸径/符号Bore/Symbol	A	B	C	C1	C2	D	E	F	G	H	I	J	K	L	M
10	71	58	47.5	35	18	22	24	23.5	4	15	9	24	30	6	3
16	84	69	55.5	41	20	28	30	28.5	5	20	12	30	38	8	4
20	106	86	69	50	25	36	36	37	8	26	16	38	48	10	5
25	131	107	86	60	30	45	42	45	10	30	18	46	58	12	6
32	158.5	121.7	96.2	64	35	55	46	62.3	12	40	20	46	72	14	9

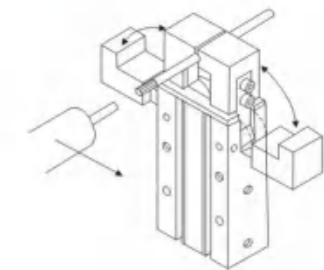
缸径/符号Bore/Symbol	N	O	P	Q	R	S	AA	AB	AC	AD	AE	AF
10	6	30	9	21.5	7	3	M3×0.5	6	Φ3.4	Φ11H9	1.5	M3×0.5
16	7	33	12	23.5	7	8	M4×0.7	8	Φ4.5	Φ17H9	1.5	M4×0.7
20	9	42	14	30.5	8	12	M5×0.8	10	Φ5.5	Φ21H9	1.5	M5×0.8
25	12	50	16	40	8	14	M6×1.0	12	Φ6.6	Φ26H9	1.5	M6×1.0
32	16	59	26	46.8	9.2	18	M6×1.0	14	Φ6.6	Φ34H9	1.5	M6×1.0

缸径/符号Bore/Symbol	AG	AH	AI	AJ	AK
10	6	M3×0.5	M3×0.5	4	M5×0.8
16	8	M3×0.5	M4×0.7	5	M5×0.8
20	10	M4×0.7	M5×0.8	8	M5×0.8
25	12	M5×0.8	M6×1.0	10	M5×0.8
32	14	M6×1.0	M6×1.0	12	M5×0.8

### 固定螺钉 Fixed screw



### 夹紧电线 Clamping wire

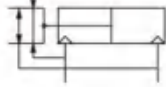




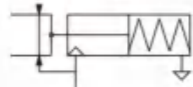
HFZ-20

### 图形符号 Symbol

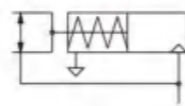
HFZ: 标准复动型  
Double acting



HFTZ: 单动常开型  
Single acting and normally opened



HFSZ: 单动常闭型  
Single acting and normally closed



### 产品特性 Product feature

- ◆ 采用一体化设计之线性导轨, 高刚性、高精度;
- ◆ 线性导轨底部附定拉插销, 防止导轨与本体偏离;
- ◆ 本体附带的固定基准孔更深, 提升固定精度, 提高重复拆装定位的一致性;
- ◆ 根据客户实际使用要求, 可以定制夹爪初始位置, 以满足不同工况条件下的不同需求。
- ◆ Integrated design of linear guide rail, high rigidity and high precision.
- ◆ A positioning pin is attached to the bottom of the linear guide rail, which can prevent the deviation of the positioning rail and body.
- ◆ The hole of the body is deeper, which can improve the precision and the consistency of repeated dismantling and positioning.
- ◆ According to the actual using requirements of customers, the initial position of clamping jaw can be customized to meet the different needs under different working conditions.

### 规格 Specification

内径Bore size(mm)		6	10	16	20	25	32	40
动作型式Acting type		复动型、单动型 Double acting Single acting						
工作介质 Fluid		空气(经40 μm以上滤网过滤) Air(to be filtered by 40m filter element)						
使用压力范围 Operating pressure	复动 Double acting	Φ6、Φ10	0.2~0.7MPa(28~100psi)(2.0~7.0bar)					
	其它Others		0.1~0.7MPa(15~100psi)(1.0~7.0bar)					
单动 Single acting	Φ6、Φ10	0.35~0.7MPa(50~100psi)(3.0~7.0bar)						
	其它Others		0.25~0.7MPa(36~100psi)(2.5~7.0bar)					
工作温度 Temperature °C		-10°C~+70°C						
给油Lubrication		不需要 Not required						
重复精度Repeat ability (mm)		±0.03				±0.05		
最高使用频率Max.frequency		180(c.p.m)				60(c.p.m)		
接管口径 Port size		M3×0.5			M5×0.8			

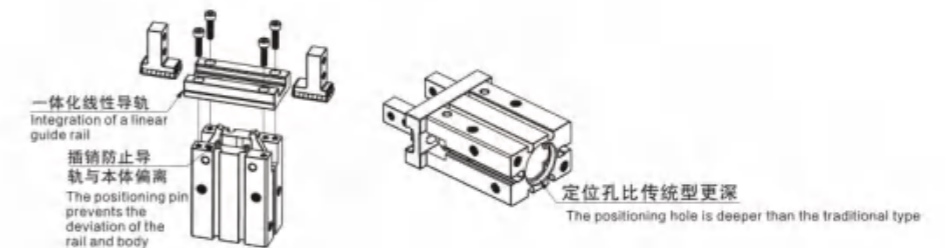
### 订购码 Ordering Code

HFZ	20	□
<b>规格代号 Model</b>	<b>缸径 Bore size</b>	<b>夹爪可选种类 Finger type</b>
HFZ: 标准复动带导轨平行型气动手指 HFSZ: 单动常闭带导轨平行型气动手指 HFTZ: 单动常开带导轨平行型气动手指 HFZ: Standard guide rail parallel with double acting air gripper	6: Φ6mm 10: Φ10mm 16: Φ16mm 20: Φ20mm 25: Φ25mm 32: Φ32mm 40: Φ40mm	空白: 标准型 Blank: Standard N: 通孔安装型 N: Thru.hole mounting type M: 通孔安装且爪宽窄型 M: Thru.hole mounting and narrow type F: 底部安装型 F: Bottom mounting type R: 爪宽窄型 R: Narrow type B: 侧面安装型 B: Side mounting type W: 侧面安装且爪宽窄型 W: Side mounting and narrow type

### 夹持力与行程 Gripping force and stroke

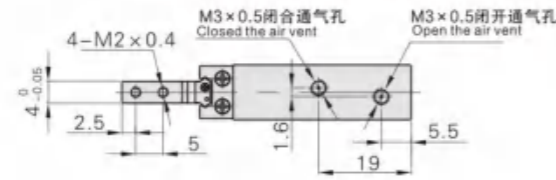
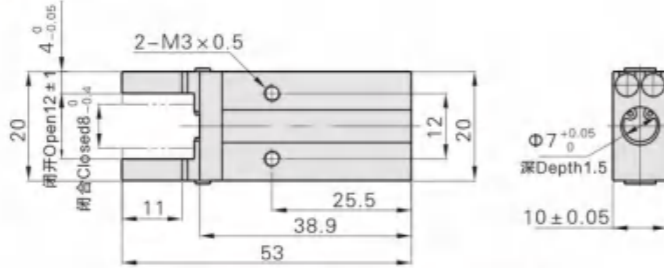
动作方式 Acting	型号 Model	单个气动手指夹持力有效值Gripping force per finger Effective valve(N)		开关行程Opening/Closin stroke (两侧 Both sides)(mm)	重量Weight(g)		
		闭会夹持力 External	张开夹持力 Internal		F型Type	其它Others	
复动型 Double acting	HFZ6	3.3	6.1	4	24	25	
	HFZ10	11	17	4	56	56	
	HFZ16	34	45	6	124	124	
	HFZ20	45	68	10	236	236	
	HFZ25	69	102	14	418	428	
	HFZ32	160	195	22	750	729	
	HFZ40	255	320	30	1340	1268	
	单动型 Single acting	HFTZ6	1.9	-	4	25	26
		HFTZ10	7	-	4	57	57
		HFTZ16	27	-	6	125	125
HFTZ20		35	-	10	238	238	
HFTZ25		55	-	14	420	430	
HFTZ32		133	-	22	799	778	
HFTZ40		220	-	30	1437	1365	
常开 Normally opened		HFSZ6	-	3.7	4	25	26
		HFSZ11	-	13	4	57	57
		HFSZ16	-	38	6	125	125
	HFSZ20	-	59	10	238	238	
	HFSZ25	-	87	14	420	430	
	HFSZ32	-	163	22	799	778	
常闭 Normally closed	HFSZ40	-	270	30	1437	1365	

注: 上表中的夹持力是在工作气压为0.5MPa, 夹持点L=20mm状态时的值。  
Note: The value of holding force is under the 0.5Mpa working pressure and holding point L=20mm on the above table

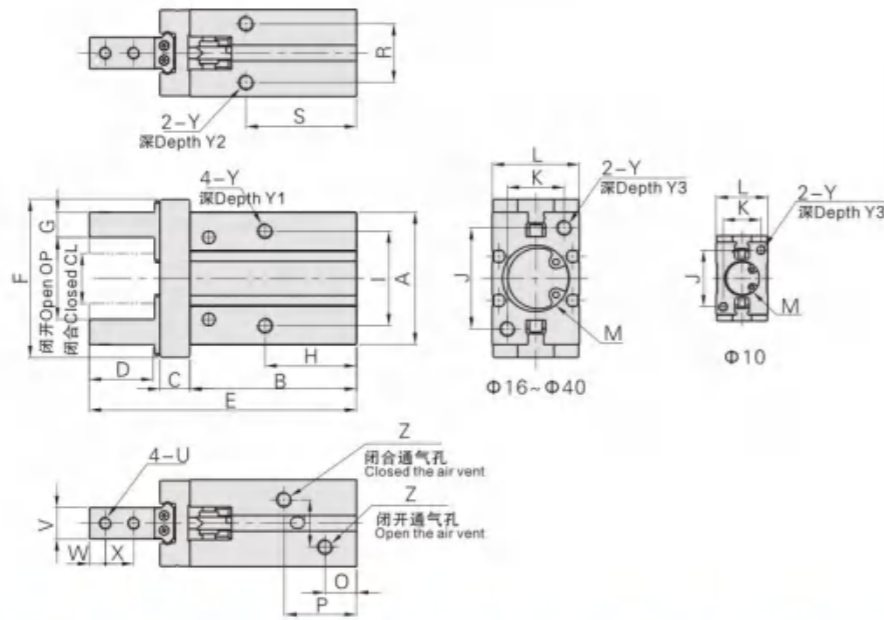


### ● 外形尺寸 Overall Dimension

标准型  
Standard type  
Φ6



Φ10~Φ40



型号/符号 Bore/Symbol	A	B	C	D	E	F	G	H	I	J
HFZ10	23	37.8	6	12	57	29	4 <sup>0</sup> / <sub>-0.01</sub>	23	16	18
HFZ16	30.6	42.5	7.5	15	67.3	38	5 <sup>0</sup> / <sub>-0.01</sub>	24.5	24	22
HFZ20	42	52.8	9.5	20	84.8	50	8 <sup>0</sup> / <sub>-0.01</sub>	29	30	32
HFZ25	52	63.6	11	25	102.7	63	10 <sup>0</sup> / <sub>-0.01</sub>	30	36	40
HFZ32	60	67(76)	12	29	113(122)	97	12 <sup>0</sup> / <sub>-0.01</sub>	40(49)	46	46
HFZ40	72	83(96)	15	36	139(152)	119	14 <sup>0</sup> / <sub>-0.01</sub>	49(62)	56	56

型号/符号 Bore/Symbol	K	L	M	O	P	Q	R	S	U	W
HFZ10	12	16.4	Φ11 <sup>0</sup> / <sub>-0.05</sub> 深Depth 2	9	19	10	11.4	27	M2.5×0.45	3
HFZ16	15	23.6	Φ17 <sup>0</sup> / <sub>-0.05</sub> 深Depth 2	7.5	19	13	16	30	M3×0.5	4
HFZ20	18	27.6	Φ21 <sup>0</sup> / <sub>-0.05</sub> 深Depth 3	10	23	15	18.6	35	M4×0.7	5
HFZ25	22	33.6	Φ21 <sup>0</sup> / <sub>-0.05</sub> 深Depth 3.5	10.7	23.5	20	22	36.5	M5×0.8	6
HFZ32	26	40	Φ34 <sup>0</sup> / <sub>-0.05</sub> 深Depth 4	11	31(40)	24	26	48(57)	M6×1.0	7
HFZ40	32	48	Φ42 <sup>0</sup> / <sub>-0.05</sub> 深Depth 4	12	38(50)	28	32	58(71)	M8×1.25	9

型号/符号 Bore/Symbol	V	X	Y	Y1	Y2	Y3	Z	OP	CL
HFZ10	5 <sup>0</sup> / <sub>-0.05</sub>	5.7	M3×0.5	5.5	6	6	M3×0.5	15.2 <sup>0</sup> / <sub>-0.2</sub>	11.2 <sup>0</sup> / <sub>-0.7</sub>
HFZ16	8 <sup>0</sup> / <sub>-0.05</sub>	7	M4×0.7	8	4.5	8	M5×0.8	20.9 <sup>0</sup> / <sub>-0.3</sub>	14.9 <sup>0</sup> / <sub>-0.7</sub>
HFZ20	10 <sup>0</sup> / <sub>-0.05</sub>	9	M5×0.8	10	8	10	M5×0.8	26.3 <sup>0</sup> / <sub>-0.3</sub>	16.3 <sup>0</sup> / <sub>-0.7</sub>
HFZ25	12 <sup>0</sup> / <sub>-0.05</sub>	12	M6×1.0	12	10	12	M5×0.8	33.3 <sup>0</sup> / <sub>-0.3</sub>	19.3 <sup>0</sup> / <sub>-0.8</sub>
HFZ32	15 <sup>0</sup> / <sub>-0.05</sub>	14	M6×1.0	13	10	13	M5×0.8	48 <sup>0</sup> / <sub>-0.5</sub>	26 <sup>0</sup> / <sub>-0.5</sub>
HFZ40	18 <sup>0</sup> / <sub>-0.05</sub>	17	M8×1.25	16	13	17	M5×0.8	60 <sup>0</sup> / <sub>-0.5</sub>	30 <sup>0</sup> / <sub>-0.5</sub>



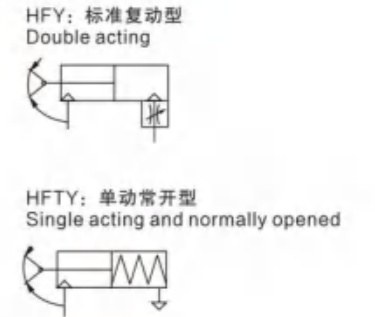
HFY-20

### ● 订购码 Ordering Code

规格代号 Model
HFY: 标准复动Y型气动手指
HFTY: 单动常开Y型气动手指
HFY: Air finger(Angle style, Double acting)
HFTY: Air finger(Angle style, Single acting normally opened)

缸径 Bore size
6: Φ6mm
10: Φ10mm
16: Φ16mm
20: Φ20mm
25: Φ25mm
32: Φ32mm

### ● 图形符号 Symbol



### ● 规格 Specification

型号 Model	HFY					
作动方式 Acting type	复动型 Double acting					
气缸内径 Tube I.D.(mm)	12	16	20	25	32	
配管口径尺寸 Port size	M3×0.5		M5×0.8			
使用流体 Medium	空气 Air					
使用压力范围 Operating pressure range	0.15~0.7MPa					
周围温度 Ambient temperature	-10°C~+70°C(不冻结 No freezing)					
最高作动频率 Max.frequency	180次/分钟 Cycles/min					
给油 Lubrication	气缸 Cylinder	不需要给油 Not required				
	爪片 Lever	润滑脂grease				
最大爪臂长度夹爪开角角度 Max arm length clamp/Release angle	30	40	60	70	85	
理论把持力距(M) Theorem moment	闭侧	40×P	90×P	170×P	340×P	610×P
	开侧	50×P	120×P	230×P	440×P	810×P
有效把持力 Clamping force (F)	F=M/L×0.85					
重量 Weight (g)	53	103	193	327	525	

### ● 产品特性 Product feature

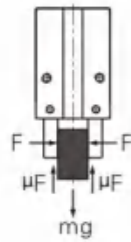
- ◆采用单活塞结构,夹持力矩大;
- ◆合理的夹持角度,实际使用范围宽广;
- ◆精准的定位精度,夹取工件时更加准确可靠;
- ◆多种型式的安装方式,方便不同场合的使用;
- ◆所有系列均附磁石,便于控制。
- ◆Using a single piston structure,large gripping torque.
- ◆Reasonable gripping angle,wide range of actual use.
- ◆Precise positioning accuracy,it is more accurate and reliable when gripping work-piece.
- ◆Various types of installation,it is convenient for the use in different occasions.
- ◆All series are attached with magnet so that it is easy to control.

### ● 理论夹持力矩 Gripping force and stroke

作动方式 Acting	型号Model	理论夹持力矩 Theoretical gripping torque(N·cm)		最大夹取点长度 Max.length of gripping point (L)(mm)	张开角度 Opening angle	闭合角度 Closing angle
		闭合夹持力矩 Closed	张开夹持力矩 Opens			
复动型 Double acting	HFY6	7.4×P	10.6×P	30	30 <sup>+3</sup> <sub>0</sub>	-10 <sup>0</sup> <sub>-3</sub>
	HFY10	17.6×P	29.4×P	30		
	HFY16	90×P	129×P	40		
	HFY20	152×P	252×P	60		
	HFY25	304×P	473×P	70		
	HFY32	637×P	904×P	85		
单动常闭型 Single acting Normally opened	HFTY6	5.7×P	-	30		
	HFTY10	11.8×P	-	30		
	HFTY16	71.2×P	-	40		
	HFTY20	122.4×P	-	60		
	HFTY25	252×P	-	70		
	HFTY32	589×P	-	85		

### ● 夹持力与夹持点的选定

夹持力的选定请根据以下方法确定夹持力的大小。  
The selection of gripping force Please determine the gripping force according to the below methods.



如图所示夹持工件,在普通搬运状态所产生的冲击状况下,取安全系数a=4时,夹持力为被夹持对象质量的10~20倍以上。  
The gripping work-pieces shown above,on the impact condition of ordinary handling state,taking safety coefficient a=4,have a gripping force that is more than 10~20 times of the mass of the gripped objects.

$\mu=0.2$ 时 $F = \frac{mg}{2 \times 0.2} \times 4$ $= 10 \times mg$	$\mu=0.1$ 时 $F = \frac{mg}{2 \times 0.1} \times 4$ $= 20 \times mg$
被夹持对象质量的10倍 10 times of the mass of the gripped objects	被夹持对象质量的20倍 20 times of the mass of the gripped objects

注:当摩擦系数 $\mu > 0.2$ 时,为了安全,也请按被夹持对象质量的10~20倍的原则选定夹持力;对于大加速度与冲击而言,必需预留更大的安全系数。  
Note)If the friction coefficient  $\mu > 0.2$ ,for safety,please also select clamping force according to the principle of 10~20 times of the mass of the clamped objects,As for large acceleration and shock,it requires higher safety coefficient.

如左图所示夹持工件时:  
The work-pieces as shown in the left:

- F: 夹持力 Gripping force(N)
- $\mu$ : 配件与工件之间摩擦系数  
friction coefficient between fittings and work-pieces.
- m: 工件质量  
mass of work-pieces
- g: 重力加速度(=9.8m/s<sup>2</sup>)  
acceleration of gravity(=9.8m/s<sup>2</sup>)

工件不掉落的条件为:  
The condition that the work-pieces

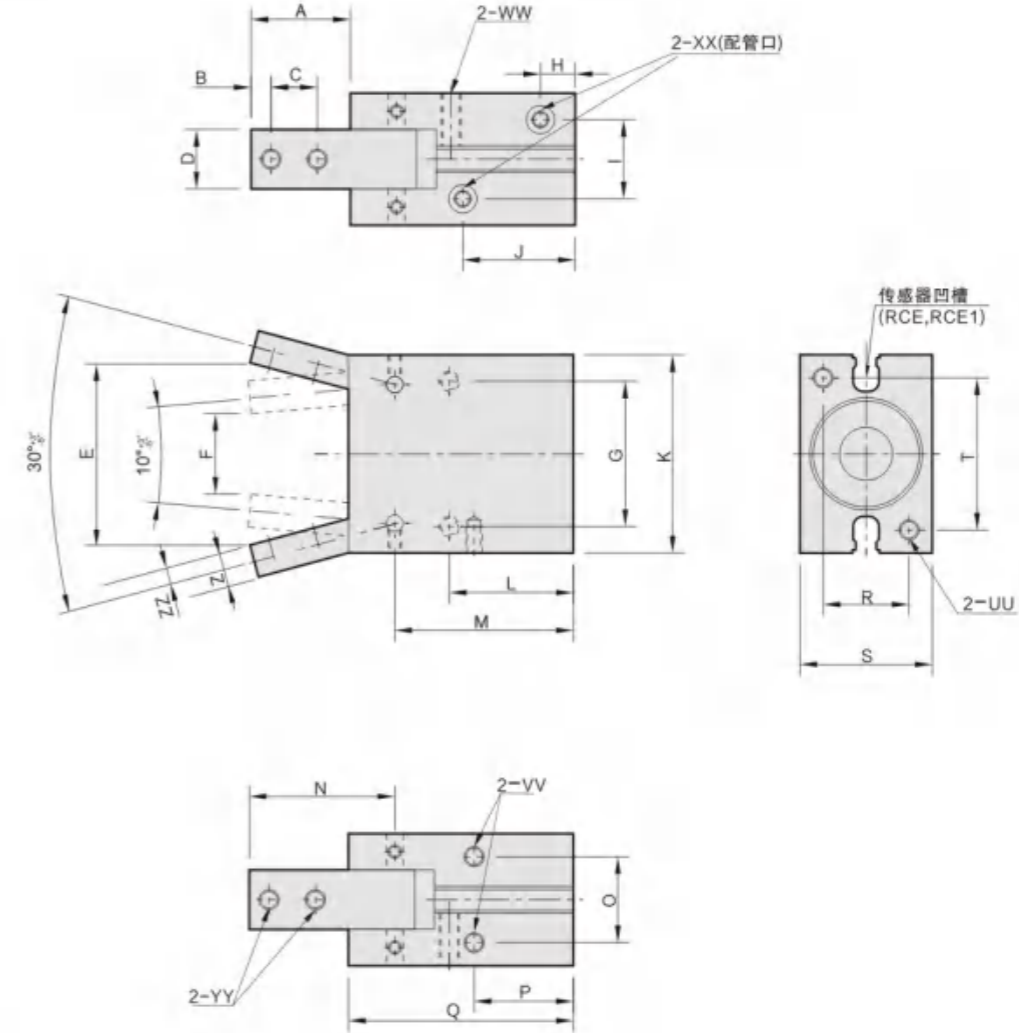
$$2 \times \mu F > mg$$

$$\text{即so: } F > \frac{mg}{2 \times \mu}$$

安全系数为a,因此F为:  
Safety coefficient is a so F is:

$$F = \frac{mg}{2 \times \mu} \times a$$

### ● 外形尺寸 Overall Dimension



### ● 尺寸表 Dimension Sheet

代号\内径 Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
12	15.4	3	6	7	26.3	9	20	7.5	10.2	23	28	20	32.9	21.5	10.2	16
16	17.5	3	8	9	31.1	14	24	7.5	12	22	34	22.5	35	25	14	18
20	22	4	10	12	40.1	18	30	8.0	13	25	45	25	39.5	32.5	16	19
25	26	5	12	14	47.9	21	36	8.5	18	28	52	28.5	45.5	38.5	20	21.5
32	30	6	14	18	55.1	24	44	10.5	24	34	60	37.5	54	44	26	30

代号\内径 Bore/Symbol	Q	R	S	T	UU	VV	WW	XX	YY	Z	ZZ
12	39	10	16	22	M3×5深Depth	M3×5深Depth	M3×8深Depth	M3×5深Depth	M3	5	2.5
16	42.5	14	22	26	M4×7深Depth	M4×7深Depth	M4×11深Depth	M5×5深Depth	M3	6	3
20	50	16	26	35	M5×8深Depth	M5×8深Depth	M5×12深Depth	M5×5深Depth	M4	7	3.5
25	58	20	32	40	M6×10深Depth	M6×8深Depth	M6×16深Depth	M5×5深Depth	M5	9	4
32	68	26	40	46	M6×10深Depth	M6×8深Depth	M6×20深Depth	M5×5深Depth	M6	10	5

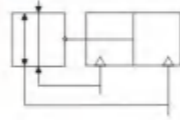


### 订购码 Ordering Code

<b>MHL</b>	<b>16</b>	<b>D</b>	<b>1</b>	<b>Y59A</b>	<b>□</b>
2爪缸径 2 Fingers		双作用 Double Action	手指开闭行程 No Remark means no sensor	磁性开关的型号 Sensor Model	磁性开关个数 Qty of Sensor
10: Φ10mm 16: Φ16mm 20: Φ20mm 25: Φ25mm 32: Φ32mm 40: Φ40mm				无记号 无磁性开关 *磁性开关型号后面, 附 导线长度表示记号: 无记号-0.5m, L-3m, 例 Y59A, Y59AL	无记号 2个 S 1个 n n个

- \*手指行程长, 适合夹持体积大的物件。
- \*双活塞设计, 能增大保持力。
- \*采用齿轮齿条操作, 令手指能同步开闭。
- \*防尘设计, 因采用特别密封件。

### 图形符号 Symbol

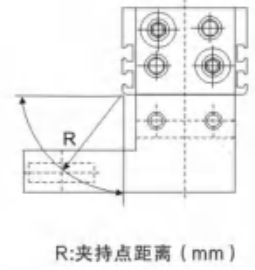
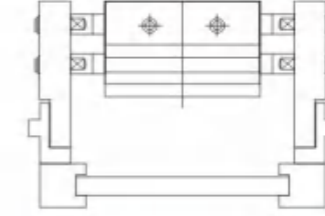
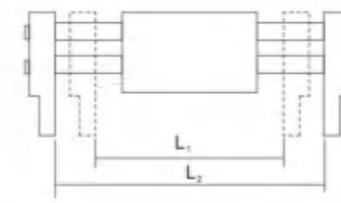


### 规格 Specification

缸径Bore(mm)	10	16	20	25	32	40
使用流体 Working Medium: Air(Lubricator free)	空气 (不给油)					
作动方式 Motion Type: Double Action	双作用					
最高使用压力 Max Working Pressure MPa	0.6					
最低使用压力 Minimum Working Pressure MPa	0.15			0.1		
环境和流体温度 Environment and flow temperature	-10~60°C					
重复精度 Accuracy Rate	±0.1mm					
注1) 夹持力 NTips) Clamp strength	14	45	74	131	228	396
接管口径 Port Size	M5x0.8		Rc1/8			

注1) 在0.5MPa的压力下及夹持点距离是40mm (φ10-φ25) 80mm (φ32/φ40)

### 行程表 Schedule



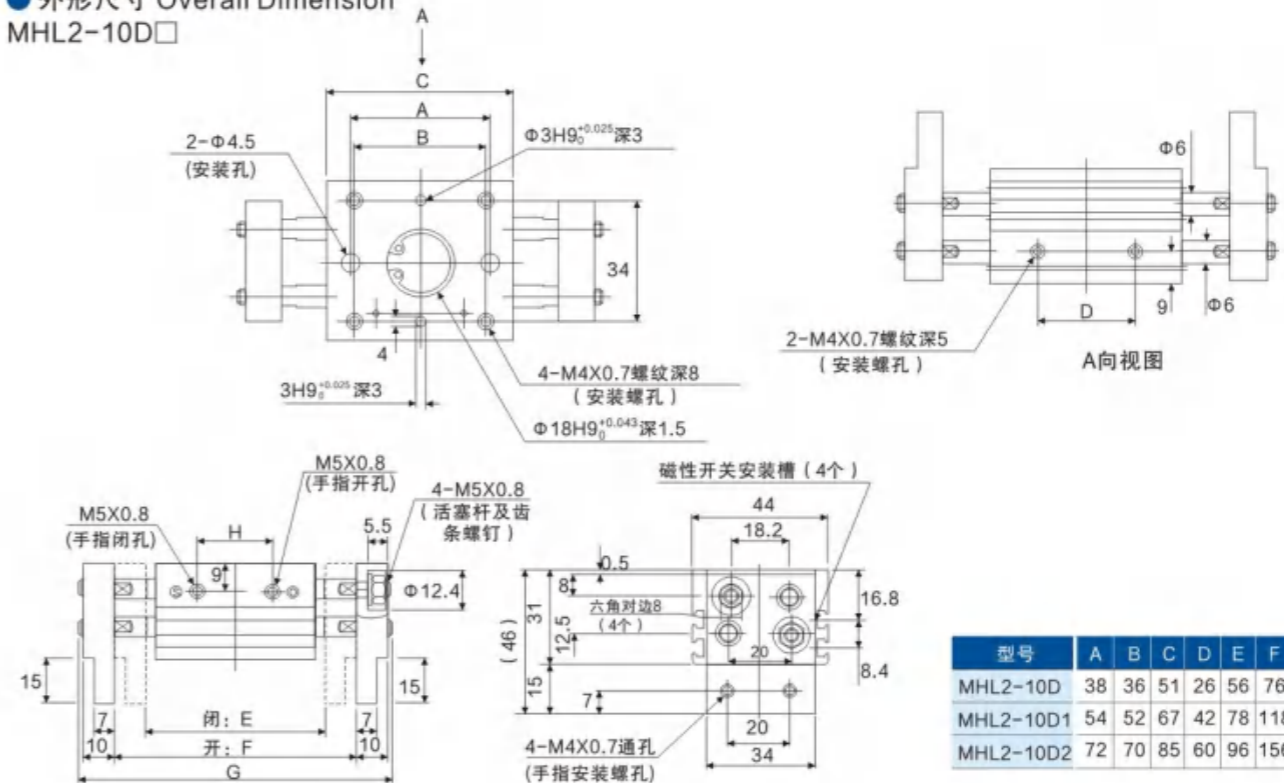
R: 夹持点距离 (mm)

### 尺寸表 Dimension Sheet

型号	缸径 (mm)	最高动作频率 c.p.m	开/闭行程 mm (L2-L1)	闭时宽度 mm (L1)	开时宽度 mm (L2)
MHL2-10D	10	60	20	56	76
MHL2-10D1		40	40	78	118
MHL2-10D2		60	60	96	156
MHL2-16D	16	60	30	68	98
MHL2-16D1		40	60	110	170
MHL2-16D2		80	80	130	210
MHL2-20D	20	60	40	82	122
MHL2-20D1		40	80	142	222
MHL2-20D2		100	100	162	262
MHL2-25D	25	60	50	100	150
MHL2-25D1		40	100	182	282
MHL2-25D2		120	120	200	320
MHL2-32D	32	30	70	150	220
MHL2-32D1		20	120	198	318
MHL2-32D2		160	160	242	402
MHL2-40D	40	30	100	188	288
MHL2-40D1		20	160	246	406
MHL2-40D2		200	200	286	486

### 外形尺寸 Overall Dimension

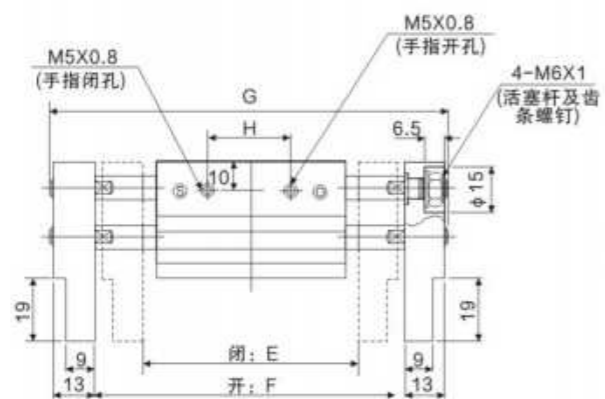
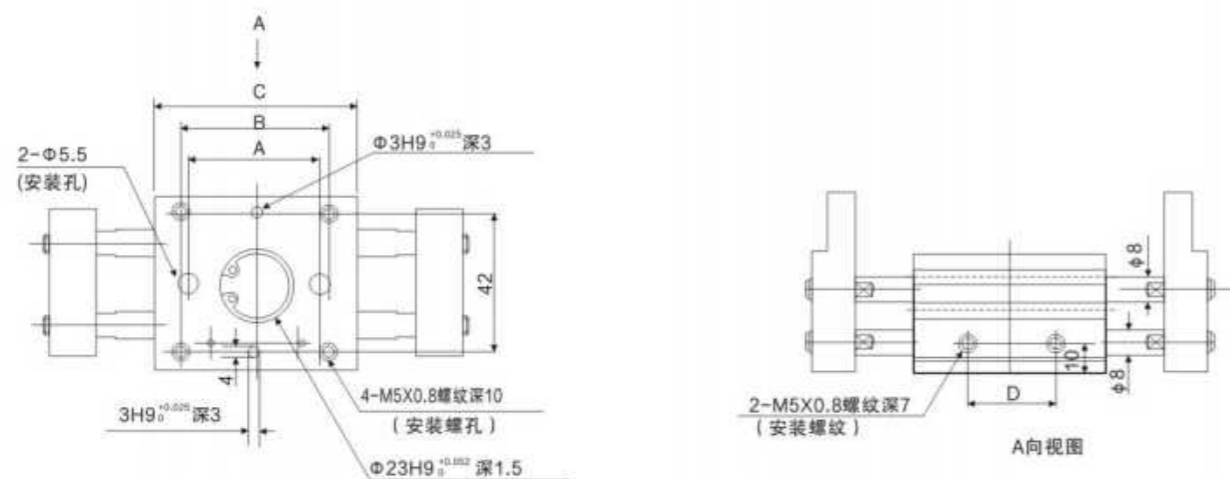
MHL2-10D□



型号	A	B	C	D	E	F	G	H
MHL2-10D	38	36	51	26	56	76	100	24
MHL2-10D1	54	52	67	42	78	118	142	39
MHL2-10D2	72	70	85	60	96	156	180	57

### ● 外形尺寸 Overall Dimension

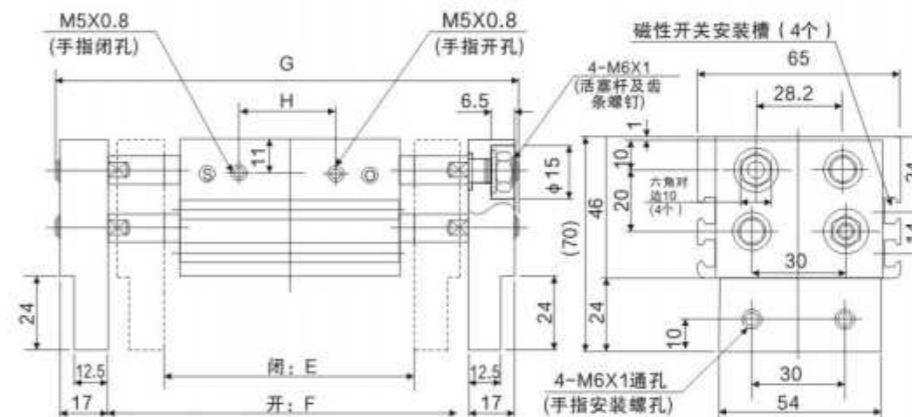
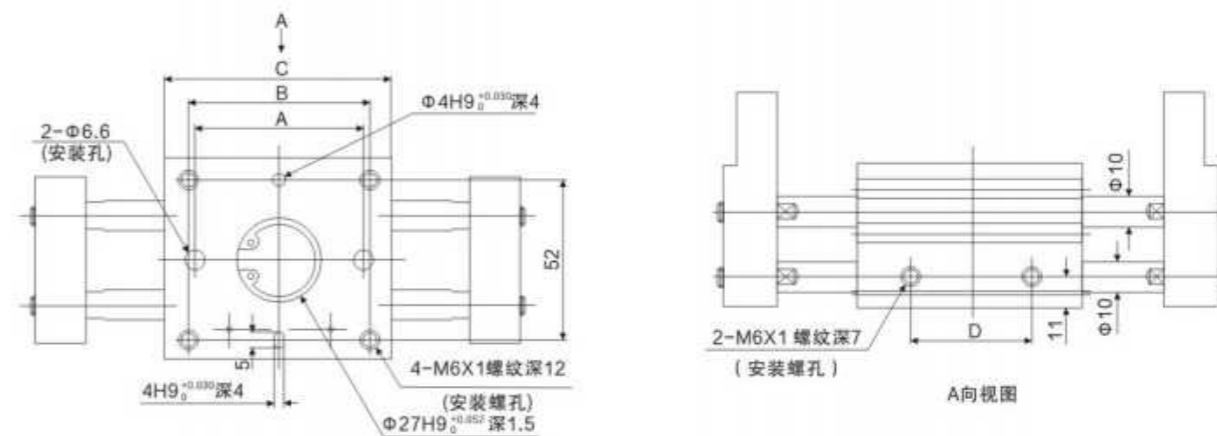
MHL2-16D□



型号	A	B	C	D	E	F	G	H
MHL2-16D	40	45	60	28	68	98	128	26
MHL2-16D1	70	75	90	58	110	170	200	50
MHL2-16D2	90	95	110	78	130	210	240	70

### ● 外形尺寸 Overall Dimension

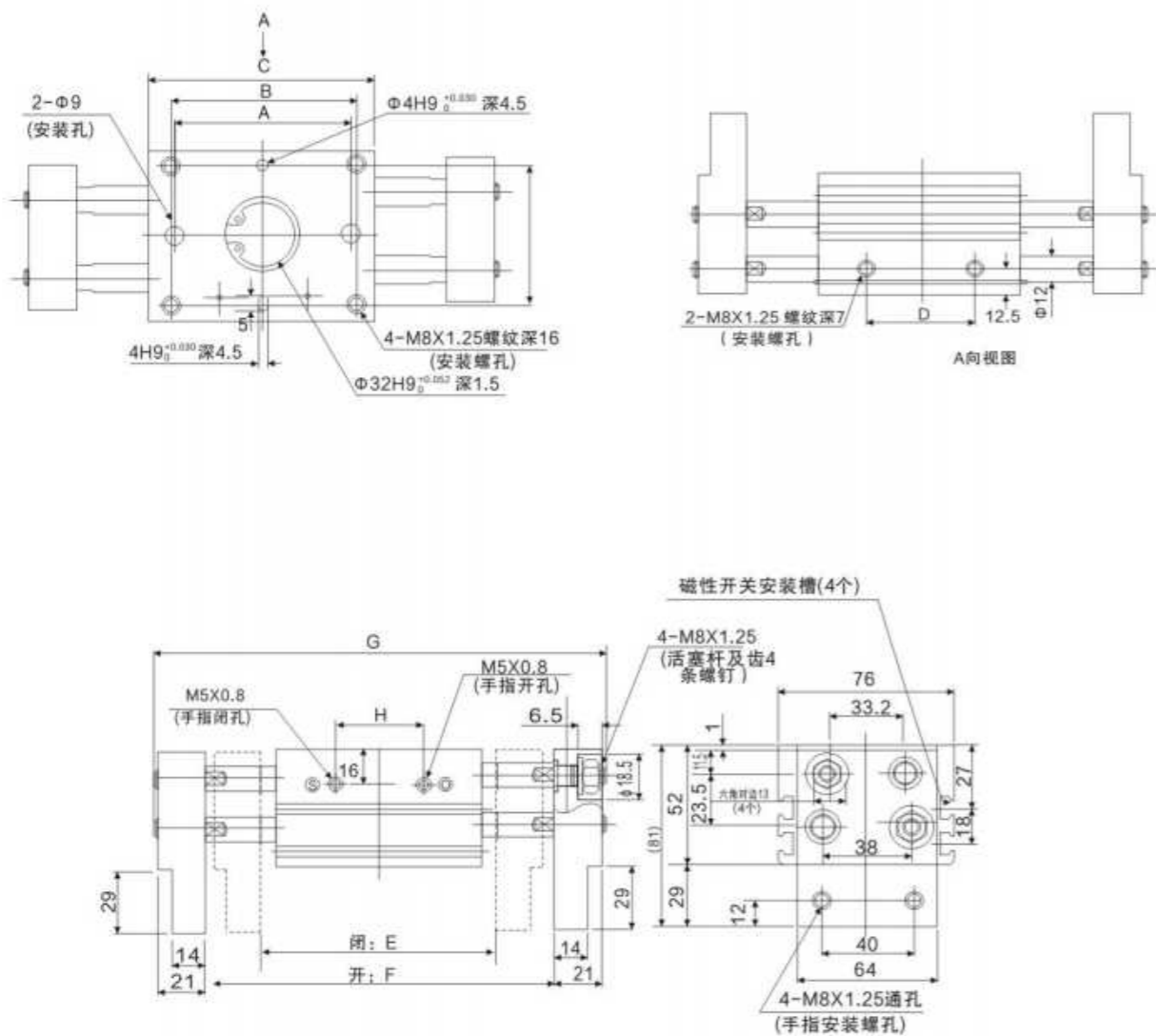
MHL2-20D□



型号	A	B	C	D	E	F	G	H
MHL2-20D	54	58	71	38	82	122	160	32
MHL2-20D1	96	100	113	80	142	222	260	68
MHL2-20D2	116	120	133	100	162	262	300	88

● 外形尺寸 Overall Dimension

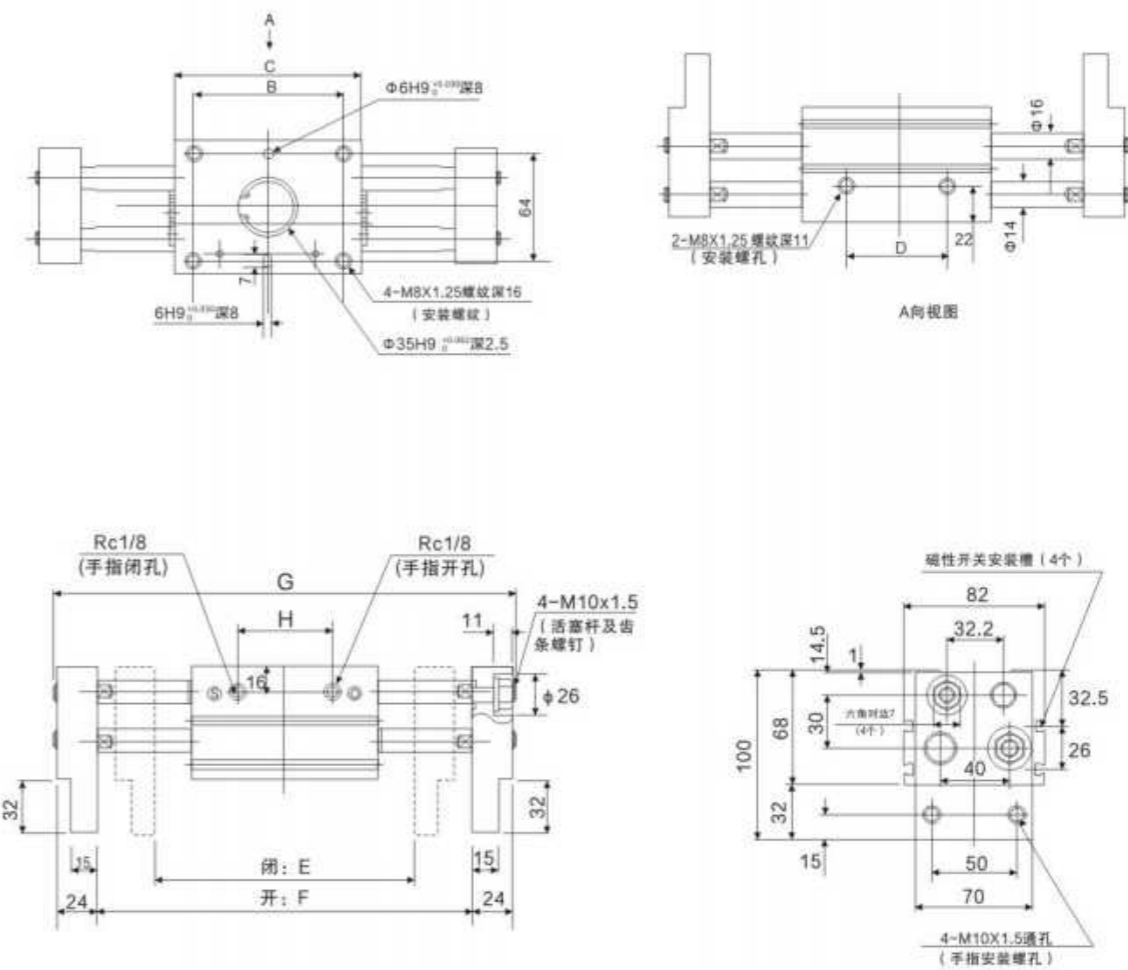
MHL2-25D□



型号	A	B	C	D	E	F	G	H
MHL2-25D	66	70	88	48	100	150	196	38
MHL2-25D1	120	124	142	102	182	282	328	86
MHL2-25D2	138	142	160	120	200	320	366	104

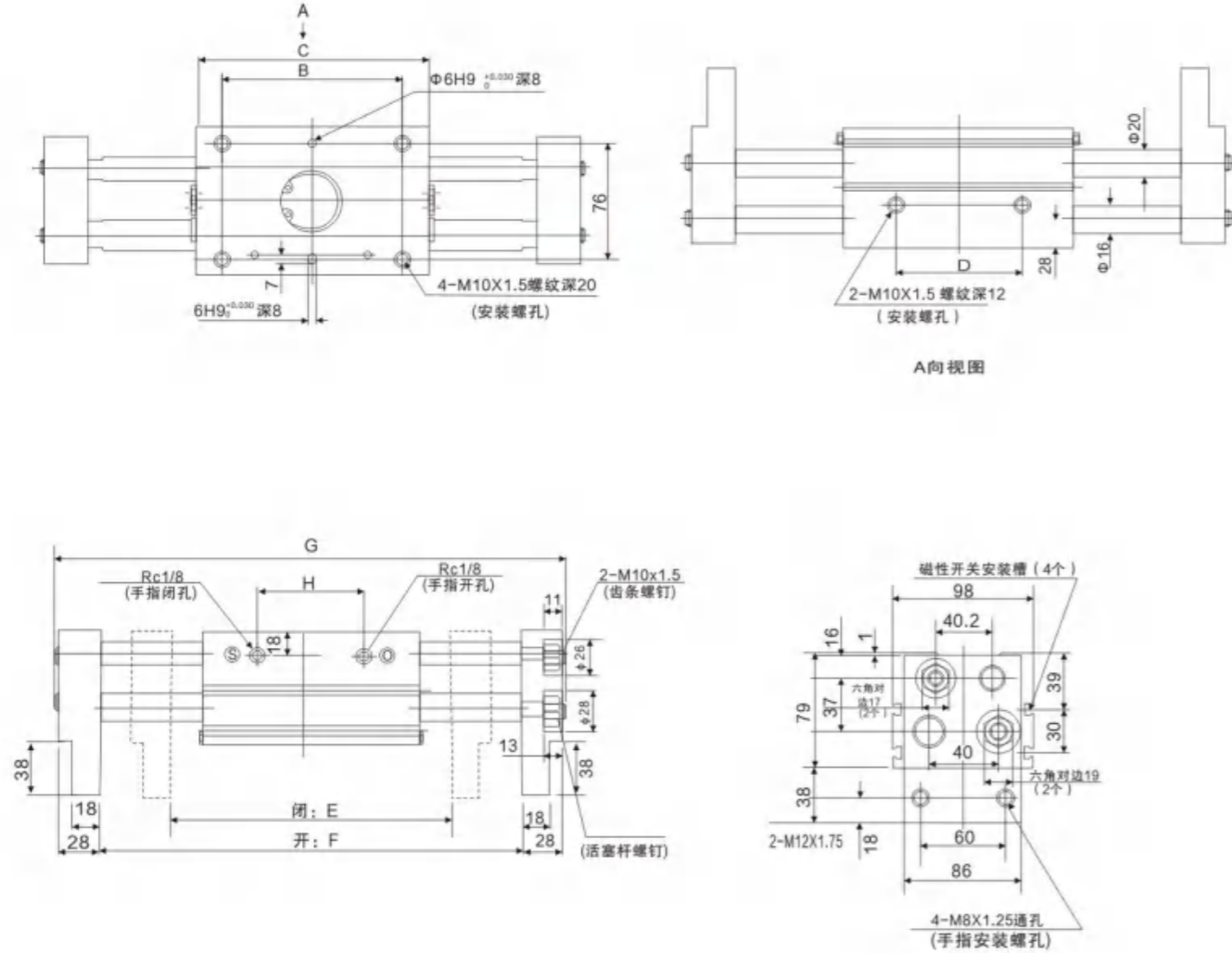
● 外形尺寸 Overall Dimension

MHL2-32D□



型号	B	C	D	E	F	G	H
MHL2-32D	86	110	60	150	220	272	56
MHL2-32D1	134	158	108	198	318	370	104
MHL2-32D2	178	202	152	242	402	454	148

### ● 外形尺寸 Overall Dimension MHL2-40D



型号	B	C	D	E	F	G	H
MHL2-40D	116	148	80	188	288	348	72
MHL2-40D1	174	206	138	246	406	466	130
MHL2-40D2	214	246	178	286	486	546	170



本产品采用标准化感应薄型气缸, 加装杆式夹持机构, 活塞退出夹紧, 主要机构零件安装于缸体外部, 易于维护。  
缸体采用铝合金材质, 表面硬质处理, 内壁表面光滑, 使用寿命长, 夹持机构材料均采用机械构造用碳素钢, 坚固耐用。  
本产品各种型号均可安装磁性开关。

### ● 订购码 Ordering Code

JGL	A		SD	32	Txn
直线压板气缸 Ordering Code	气缸种类 Motion Pattern	气缸形式 Cylinder Type	固定方式 Installation Type	缸径 Bore(mm)	感应开关 Sensor Type
	A: 复动型 B: 单动型 簧在前 A: Double Action B: Single Action	标准品 (无感应) G: 感应型 Standard(W ithout Magnet) G: With Magnet	SD: 基本型 FB: 底板型 SD: Standard Type FB: With Baseplate	25: $\phi$ 25mm 32: $\phi$ 32mm 40: $\phi$ 40mm 50: $\phi$ 50mm 63: $\phi$ 63mm	规格: JFS-02 Specs: JFS-02 JFS-04 JFS-04 T: 2条出线, 标准线长2米 (常用规格) P: PNP, 3条出线, 标准线长2米 N: NPN, 3条出线, 标准线长2米 n: 数量 注: 订购有G记号, 没有Txn记号: 表示气缸只附感应磁石, 不附感应开关

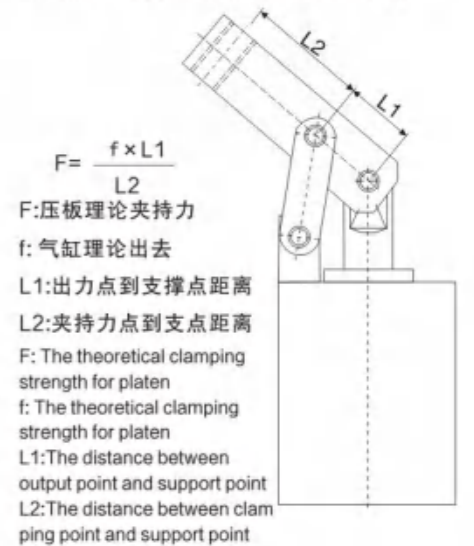
### ● 规格 Specification

气缸内径 Bore(mm)	25	32	40	50	63
使用流量 Working Medium	过滤压缩空气(需要润滑/ISO-VG32) Filtered Air(Lubricant/ISO-VG32)				
工作压力 Working Pressure	0.5~9.9kgf/cm <sup>2</sup>				
夹持方式 Clamp Type	上下夹持 Vertical				
动作方式 Motion Pattern	复动型/单动型 Double Action/Single Action				
转角角度 Rotating Angle	零 0				
行程(mm) Stroke(mm)	20	20	25	30	35

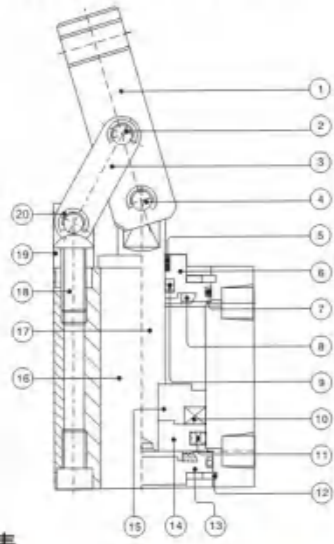
### ● 理论出力表 Theoretical Output Chart

轴径 Bore (mm)	轴径 Bore (mm)	下压时有效 压面积(cm <sup>2</sup> ) Effective Pi- ston scale w ith pressing down	理论出力(kgf) Theoretical output(kgf)								压板夹持力(kgf) Clamp Strength of platen							
			单位工作压力(kgf/cm <sup>2</sup> ) Working pressure per square cm kgf/cm <sup>2</sup>															
			3	4	5	6	7	8	3	4	5	6	7	8				
25	10	4.9	14.7	19.6	24.5	29.4	34.3	39.2	5.4	7.1	8.9	10.7	12.5	14.2				
32	12	8.0	24.3	32.5	40.6	48.7	56.8	64.9	11.1	14.8	18.7	22.4	26.4	29.8				
40	16	12.6	38.4	50.4	63.6	75.6	88.8	100.8	21.4	28.4	35.5	42.7	49.8	56.9				
50	20	19.6	59.4	78.4	98.6	117.6	137.8	156.8	37.5	50	62.5	75	87.6	100				
63	20	31.2	93.4	124.8	156	187.2	218.3	249.5	87.8	116.9	146.2	175.5	204.8	233.9				

### 夹持力计算: Clamping Strength:



### ● 内部构造与零件名称: Structure and Part nr



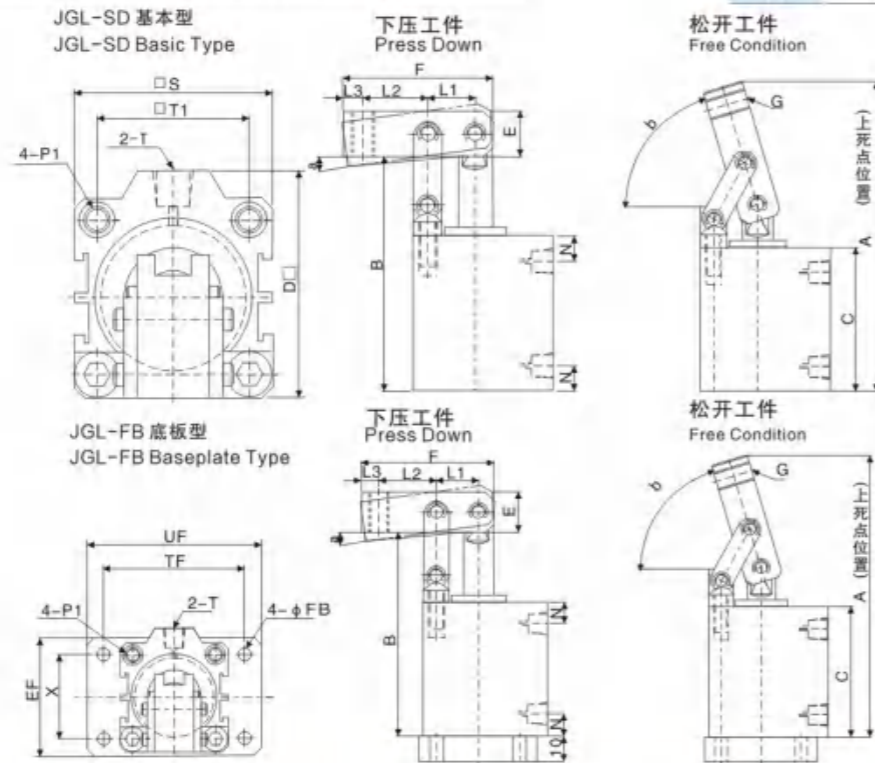
记号Item	零件名称 Part Nr	数量QTY
①	连接杆 Rod	1
②	连接板固定销 Pin	2
③	连接块 Connector	2
④	轴心固定销 Pin	1
⑤	前盖衬套 Jacket	1
⑥	前盖 Front Cap	1
⑦	端盖O型环 O Ring	2
⑧	缓冲垫片 Cushion	2
⑨	前盖封套 Seal Kit	1
⑩	感应磁石 Magnet	1
⑪	活塞封套 Seal Kit	1
⑫	C型扣环 C Type Locket Ring	2
⑬	后盖 Rear Cap	1
⑭	后活塞 Rear Piston	1
⑮	前活塞 Front Piston	1
⑯	缸体 Body	1
⑰	轴心 Axis	1
⑱	半圆头螺钉 Semi Round Screw	2
⑲	连接座 Connecting Base	1
⑳	E型扣环 E Type Locket Ring	6

### ● 油封规格一览表

名称 Item	7 端盖O型环 Cap O Ring	9 前盖封套 Seal Kit for Front Cap	11 活塞封套 Seal Kits for Piston			
内径 Bore (mm)	型号 Model	数量 Nr. QTY	型号 Model	数量 Nr. QTY	型号 Model	数量 Nr. QTY
25	SM25	2	MYA10	1	APA25	1
32	SM31.5	2	MYA12	1	APA32	1
40	SM38	2	MYA16	1	APA40	1
50	SM48	2	MYA20	1	APA50	1
63	SM60	2	MYA20	1	APA63	1

### ● 成品重量表 G(公克)

名称 Item	SD基本型 SD Standard Type	FB底板型 FB Baseplate Type
25	360	400
32	600	640
40	850	890
50	1550	1600
63	2100	2600



记号 Item	A	B	C	D	E	F	FB	S	气缸行程 Stroke	P1	T1	N	X	EF	TF	UF	a'	B'	L1	L2	T	L3	G
25	114	73	51	42	13	57	5.5	40	20	M6×1.0	28	8.5	28	42	54	68	4	81	14	33.5	M5×0.8	5	M6×1.0
32	125	82.5	54.5	50	16	60	5.5	44	20	M6×1.0	34	9	34	48	58	72	1.7	73.7	17	30	RC1/8	7	M8×1.25
40	132	92	61	58.5	16	63	6.6	52	25	M8×1.25	40	10	40	58	69	84	1.4	73.7	20	29	RC1/8	7	M8×1.25
50	149	104	68	70.5	22	70	9	62	30	M8×1.25	48	10	40	66	82	102	2.4	72.4	24	30	RC1/4	8	M10×1.5
63	158	119	77	84.5	22	70	9	75	35	M8×1.25	60	11	50	78	96	116	1.9	67.3	30	24	RC1/4	8	M10×1.5

### ● 订购码 Ordering Code

CY1B	25	50
型号 Model	缸径 Bore size	行程 Stroke
	6: Φ6mm	10: Φ10mm
	16: Φ16mm	20: Φ20mm
	25: Φ25mm	32: Φ32mm
	40: Φ40mm	50: Φ50mm
	63: Φ63mm	



CY1B15-200

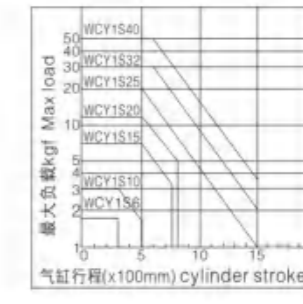
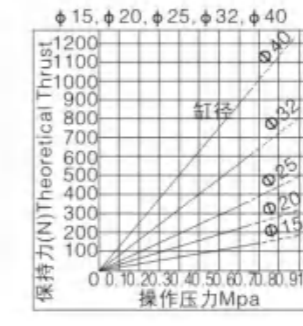
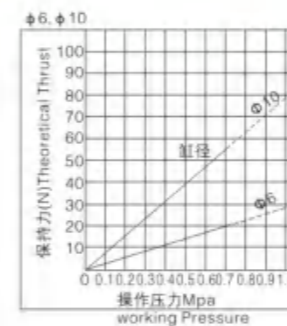
### ● 规格 Specification

缸径 Bore (mm)	6	10	15	20	25	32	40
工作介质 Working Fluid	空气 Air						
动作型式 Action	双动 Double action						
耐压 Proof Pressure	1.05MPa(10.5kgf/cm <sup>2</sup> )						
工作压力 Working Pressure	0.7MPa(7.1kgf/cm <sup>2</sup> )						
最低工作压力 Min working pressure	0.18MPa(1.8kgf/cm <sup>2</sup> )						
工作温度 Working temperature	0~60°C						
工作速度 Working speed	50~400°C						
*缓冲 Cushion	两端橡胶缓冲 Roubber bumper on both ends						
行程公差 Lubrcation	0~250: <sup>+0.1</sup> <sub>0</sub>	251~1000: <sup>+1.4</sup> <sub>0</sub>	1001~ <sup>+1.4</sup> <sub>0</sub>				
*润滑 Lubrcation	不需要 No need						
接管口径 Rc(PT)Port size	M5×0.8		Rc(PT)1/8		Rc(PT)1/8		

\*可选择油压吸震器(只限滑尺型-CY1S)。Hydraulic shock absorber is available  
\*如需要润滑, 请用透平1号油ISOVG32。If need, suggest NO1ISOYG32 cubrication

### ● 气缸理论出力及磁耦保持力 Theoretical Cylinder Thrust

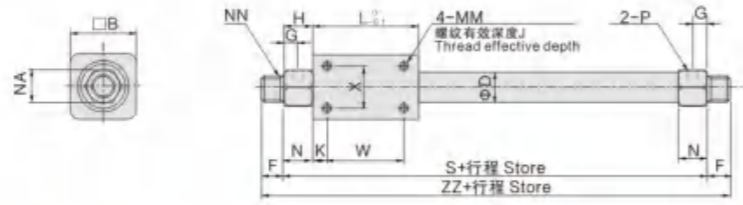
缸径(mm) Bore	型式 Type	保持力(N) Theoretical Thrust	磁耦保持力相应的压力(Mpa) Relevant Pressure	行程中间停止时的最大操作压力(Mpa) Max pressure when stop in the stroke
Φ6	CY1□6H	19.6	0.7	0.55
Φ10	CY1□10H	53.9	0.7	0.55
Φ15	CY1□15H	137.3	0.79	0.65
Φ20	CY1□20H	231	0.76	0.65
Φ25	CY1□25H	362.8	0.75	0.65
Φ32	CY1□32H	588.4	0.74	0.65
Φ40	CY1□40H	921.8	0.75	0.65



### ● 外形尺寸 Overall Dimension

基本型 Basic

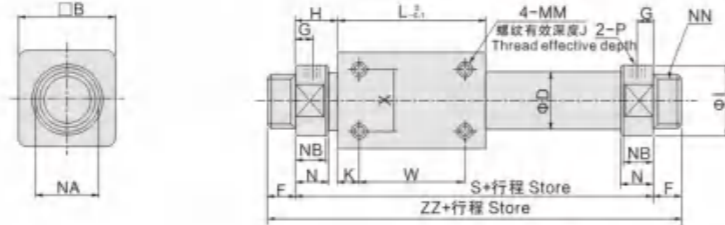
CY1B · 10 · 15



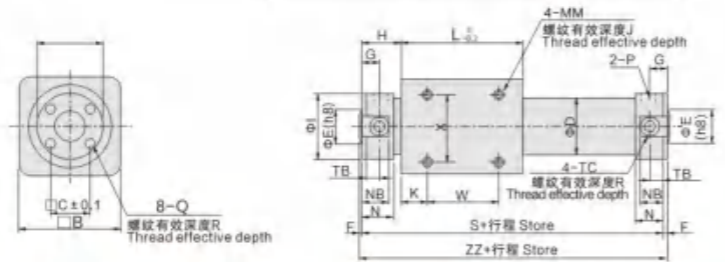
型号 Model	行程范围 Stroke Part	供气口P	ΦD	□B	F	G	H	K	L	N	NA	MM×J	NN	S	W	X	ZZ
CY1B6	-300	M5×0.8	7.6	17	9	5	14	5	35	10	14	M3×0.5×4.5	M10×1.0	63	25	10	81
CY1B10	-500	M5×0.8	12	25	9	5	12.5	4	38	11	14	M3×0.5×4.5	M10×1.0	63	30	16	81
CY1B15	-1000	M5×0.8	17	35	10	5.5	13	11	57	11	17	M4×0.7×6	M10×1.0	83	35	19	103

### ● 外形尺寸 Overall Dimension

CY1B · 20 · 25 · 32 · 40



CY1B · 50 · 63

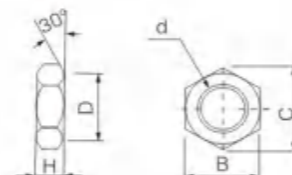


型号 Model	行程范围 Stroke Part	供气口P	□B	□C	ΦD	ΦE(h8)	F	G	H	I	K	L	MM×J
CY1B20	-2000	1/8	36	-	22.8	-	13	8	20	28	8	66	M4×0.7×0.6
CY1B25	-2000	1/8	46	-	27.8	-	13	8	20.5	34	10	70	M5×0.8×8
CY1B32	-2000	1/8	60	-	35	-	16	9	22	40	15	80	M6×1.0×8
CY1B40	-2000	1/4	70	-	43	-	16	11	29	50	16	92	M6×1.0×10
CY1B50	-2000	1/4	86	32	53	30-0.033	22	14	33	58.2	25	110	M8×1.25×12
CY1B63	-2000	1/4	100	38	66	32-0.039	22	14	33	72.2	26	122	M8×1.25×12

型号 Model	N	NA	NB	NN	Q×R	S	TB	TC×R	W	X	ZZ
CY1B20	15	24	13	M20×1.5	-	106	-	-	50	25	132
CY1B25	15	30	13	M26×1.5	-	111	-	-	50	30	137
CY1B32	17	36	15	M26×1.5	-	124	-	-	50	40	156
CY1B40	21	46	19	M32×2.0	-	150	-	-	60	40	182
CY1B50	25	55	23	-	M8×1.25×16	176	14	M12×1.25×7.5	60	60	180
CY1B63	25	69	23	-	M10×1.5×16	188	14	M14×1.5×11.5	70	70	192

### ● 安装螺母 Mounting nut

型号 Model	适用缸径 Bore	d	H	B	C	D
CY1B20	Φ6, Φ10, Φ15	M10×1.0	3	14	16.2	14
CY1B25	Φ20	M20×1.5	9	26	30	25
CY1B32	Φ25, Φ32	M26×1.5	8	32	37	31
CY1B40	Φ40	M32×2.0	11	41	47.3	39



### 气缸套件

Assembly Kits For Pneumatic Cylinder

### ● DNC套件/Kits(ISO6431&VDDMA24562)



### ● 规格 Specification

缸径/Bore Size:  
Φ32, Φ40, Φ50,  
Φ63, Φ80, Φ100, Φ125

### ● SI套件/Kits



### ● 规格 Specification

缸径/Bore Size:  
Φ32, Φ40, Φ50,  
Φ63, Φ80, Φ100, Φ125  
Φ160, Φ200, Φ250, Φ320

### ● SC套件/Kits



### ● 规格 Specification

缸径/Bore Size:  
Φ32, Φ40, Φ50,  
Φ63, Φ80, Φ100, Φ125  
Φ160, Φ200, Φ250, Φ320

### ● DNC方形管/Square Aluminum Tube



### ● 规格 Specification

缸径/Bore Size:  
Φ32, Φ40, Φ50,  
Φ63, Φ80, Φ100, Φ125

### ● SI米字形管/Mickey mouse Aluminum Tube



### ● 规格 Specification

缸径/Bore Size:  
Φ32, Φ40, Φ50,  
Φ63, Φ80, Φ100,  
Φ125, Φ160, Φ200

### ● SC, MAL圆形管/Round Aluminum Tube



### ● 规格 Specification

缸径/Bore Size:  
Φ32, Φ40, Φ50,  
Φ63, Φ80, Φ100, Φ125  
Φ160, Φ200, Φ250, Φ320

### ● 活塞杆/Piston rod



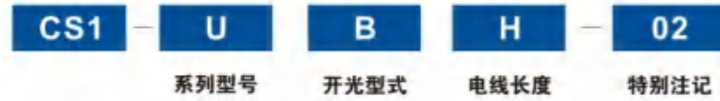
### ● 规格 Specification

缸径/Bore Size:  
Φ6, 8, 10, 12, 16, 20, 25,  
32, 40, 45, 50, 60, 70等/ etc.

我们公司可以根据客户的要求提供不同直径的活塞杆，包括不锈钢材质。  
Our company can provide different diameters piston rods including stainless steel material's according to customers requirement.

## 开关型号编码说明使用说明及注意事项

### ● 订购码 Ordering Code



无标示:电线长度为1M(标准长度)  
02:电线长度为2M

05:电线长度为5M  
QD8: M8快速接头(标准线长为015M)  
无标示:标准规格常开型(N. O)  
A:300mA  
B:常闭型(N. C)  
F:无接点FET电流输出  
H:高感度  
L:低感度  
X:无标示灯(大电流输出)  
R:有接点三极管NPN输出  
P:无接点三极管NPN输出  
Rd:三线式两用磁簧管型(NPN/PNP)  
01  
03  
:  
HT:耐高温

请一定要注意! 在使用磁感应开关时, 不可超过产品的各项参数规格限制

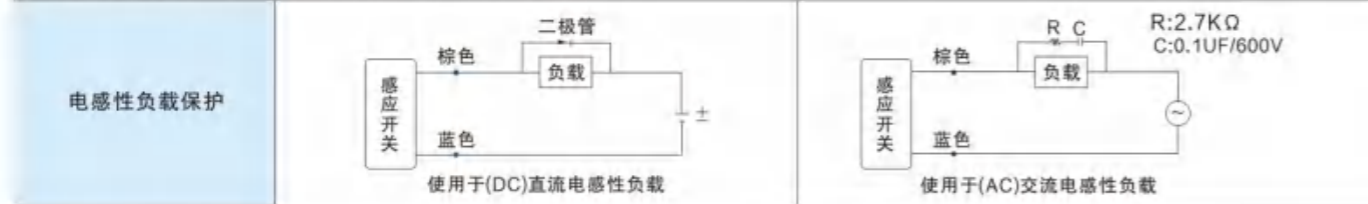
- 在使用二线式的感应开关时, 一定要接负载(LOAD)后, 才可以正常使用, 否则导致感应开关烧坏。
- 在使用(DC)直流电源时, 棕色线要接在正电位(+), 蓝色线接在负电位上(-), 否则感应开关的指示灯不亮。但感应开关仍可以正常工作。若有上述的情形时, 并不会损坏开关, 只要将开关的两条接线对调, 指示灯即可从正常工作。



- 在使用三线式的无触点型开关时, 一定要使用(DC)直流电源, 并注意接线方式。
- 棕色线要接在高电位(+), 蓝色线要接在低电位(-), 黑色线串接在负载上。
- 黑色线一定要串接负载后, 才可以使用。黑色线若接到电源时, 有可能会造成感应开关损坏。



- 在使用负载为感性负载(如继电器、电磁阀)时, 请在负载端并接保护元件, 如此可延长感应开关的寿命。
- 若接到直流(DC)直流感性负载时, 请并接一个二极管在负载上(方向如下图), 且二极管的反向崩溃电压大于电源电压。
- 若接到(AC)交流电感性负载时, 请并接一个R-C回路在负载上。



- 使用负载为电容性负载时, 或电线长度超过10M时, 请在尽量靠近开关处, 串接一个电感(470uH-4000uH), 如此可延长感应开关的寿命。



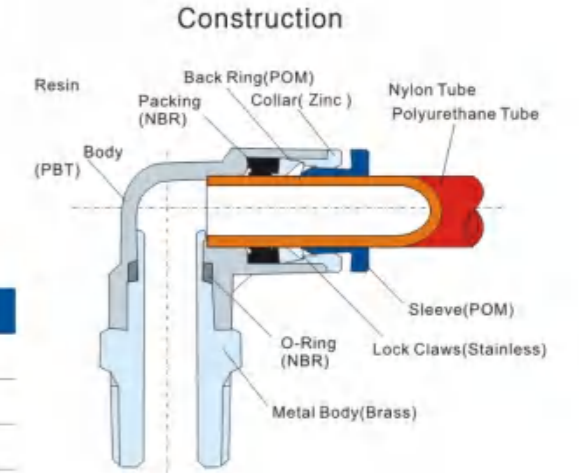
- 使用磁感应开关时, 应尽量远离强磁场或周边有导磁金属的环境, 以避免干扰。

### ● Features

- Convenient One touch fittings provide instant tubing connections
- Elliptical release ring facilitates pneumatic installations in confined spaces
- Light manual pressure on the elliptical release ring is all that is required to instantly disconnect each tube no special tools required.
- Nickel-plated brass threaded bodies ensures anti-corrosion and anti-contamination.
- All NPT & R(BSPT) thread are pre-coated with Teflon sealant and require no additional sealing.
- Most all are models available in inch and metric size.

### ● Specifications

Fluid Type	Air ( No other types of gases or liquids )	
Working Pressure Range	0~150PSI	0~9.9kgf/cm <sup>2</sup> (0~990KPa)
Negative Pressure	-29.5 in Hg	-750mm Hg(10 Torr)
Working Temperature	32~140°F	0-60°C
Recommended tube material	Nylon Or Polyurethane	



### ● Products Code System



- ① Model type
- ② Tube outer dia

	METRIC SZIE						INCH SIZE							
Code	04	06	08	10	12	14	16	1/8	5/32	3/16	1/4	5/16	3/8	1/2
Dia.	4mm	6mm	8mm	10mm	12mm	14mm	16mm	1/8inch	5/32inch	3/16inch	1/4inch	5/16inch	3/8inch	1/2inch

- ③ Thread Size

	METRIC SZIE								
Code	M5	M6	M8	M10	M12	M12A	M14	M16	M20
Dia.	M5X0.8	M6X1	M8X1	M10X1	M12X1.25	M12X1.5	M14X1.5	M16X1.5	M20X1.5

	55° Taper Pipe Thread (BSPT)					G-Thread(BSPP)			
Code	01	02	03	04	06	G01	G02	G03	G04
Dia.	R1/8	R1/4	R3/8	R1/2	R3/4	G1/8	G1/4	G3/8	G1/2

	American Standard Taper Pipe Thread (NPT)						
Code	U10	N00	N01	N02	N03	N04	N06
Dia.	10-32UNF	NPT1/16	NPT1/8	NPT1/4	NPT3/8	NPT1/2	NPT3/4







### FEMALE BANJO



Tube(Metric) - Thread(G)	
PHF04-G01	PHF08-G04
PHF04-G02	PHF10-G01
PHF04-G03	PHF10-G02
PHF06-G01	PHF10-G03
PHF06-G02	PHF10-G04
PHF06-G03	PHF12-G02
PHF08-G01	PHF12-G03
PHF08-G02	PHF12-G04
PHF08-G03	

### BULKHEAD FEMALE STRAIGHT



Tube(Metric) - Thread(G)	
PMF04-G01	PMF10-G02
PMF04-G02	PMF10-G03
PMF04-G03	PMF10-G04
PMF06-G01	PMF12-G02
PMF06-G02	PMF12-G03
PMF06-G03	PMF12-G04
PMF08-G01	PMF14-G03
PMF08-G02	PMF14-G04
PMF08-G03	PMF16-G03
PMF08-G04	PMF16-G04
PMF10-G01	

### MALE TRIPLE UNION



Tube(Metric) - Thread(G)	
PKB04-G01	PKB08-G02
PKB04-G02	PKB08-G03
PKB04-G03	PKB08-G04
PKB06-G01	
PKB06-G02	
PKB06-G03	
PKB08-G01	

### MALE TRIPLE BRANCH REDUCER



Tube(Metric) - Thread(G)	
PKD 06-04-G01	
PKD 08-04-G02	
PKD 08-04-G02	
PKD 10-04-G03	

## Compact One Touch Tube Fittings

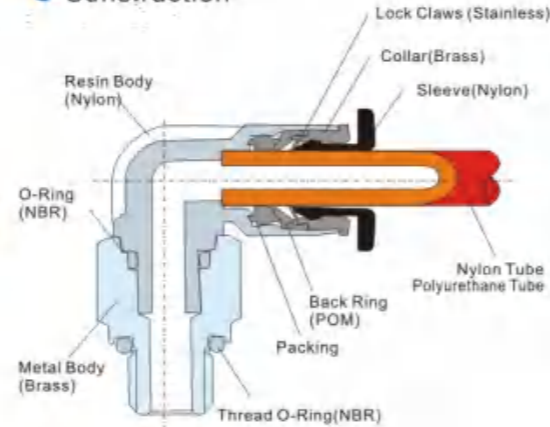
### Features

- The smallest pneumatic fittings.
- 40% less volume and a 20% smaller OD than the standard One Touch Design
- Compact one touch fittings are specially designed for pneumatic installations in equipment that is small and compact in size.

### Specifications

Fluid Type	Air ( No other types of gases or liquids )	
Working Pressure Range	0~150PSI	0~9.9kgf/cm <sup>2</sup> (0~990KPa)
Negative Pressure	-29.5 in Hg	-750mm Hg(10 Torr)
Working Temperature	32~140°F	0~60°C
Recommended tube material	Nylon Or Polyurethane	

### Construction



### Products Code System

- ① Model type    ③ Thread size
- ② Tube outer dia    ④ Compact



### MALE STRAIGHT



Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PC 03-M3C	PC 1/8-U10C
PC 03-M5C	PC 1/8-N00C
PC 03-M6C	PC 1/8-N01C
PC 04-M3C	PC 5/32-U10C
PC 04-M5C	PC 5/32-N00C
PC 04-M6C	PC 5/32-N01C
PC 04-01C	PC 1/4-U10C
PC 04-G01C	PC 1/4-N00C
PC 06-M5C	PC 1/4-N01C
PC 06-M6C	
PC 06-01C	
PC 06-G01C	

### ROUND MALE STRAIGHT



Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
POC 03-M3C	POC 1/8-U10C
POC 03-M5C	POC 1/8-N00C
POC 03-M6C	POC 1/8-N01C
POC 04-M3C	POC 5/32-U10C
POC 04-M5C	POC 5/32-N00C
POC 04-M6C	POC 5/32-N01C
POC 04-01C	POC 1/4-U10C
POC 04-G01C	POC 1/4-N00C
POC 06-M5C	POC 1/4-N01C
POC 06-M6C	
POC 06-01C	
POC 06-G01C	

### FEMALE STRAIGHT



Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PCF 03-M3C	PCF 1/8-U10C
PCF 03-M5C	PCF 1/8-N00C
PCF 03-M6C	PCF 1/8-N01C
PCF 04-M3C	PCF 5/32-U10C
PCF 04-M5C	PCF 5/32-N00C
PCF 04-M6C	PCF 5/32-N01C
PCF 04-01C	PCF 1/4-U10C
PCF 04-G01C	PCF 1/4-N00C
PCF 06-M5C	PCF 1/4-N01C
PCF 06-M6C	
PCF 06-01C	
PCF 06-G01C	

### MALE ELBOW



Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PL 03-M3C	PL 1/8-U10C
PL 03-M5C	PL 1/8-N00C
PL 03-M6C	PL 1/8-N01C
PL 04-M3C	PL 5/32-U10C
PL 04-M5C	PL 5/32-N00C
PL 04-M6C	PL 5/32-N01C
PL 04-01C	PL 1/4-U10C
PL 04-G01C	PL 1/4-N00C
PL 06-M5C	PL 1/4-N01C
PL 06-M6C	
PL 06-01C	
PL 06-G01C	

### EXTENDED MALE ELBOW



Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PLL 03-M3C	PLL 1/8-U10C
PLL 03-M5C	PLL 1/8-N00C
PLL 03-M6C	PLL 1/8-N01C
PLL 04-M3C	PLL 5/32-U10C
PLL 04-M5C	PLL 5/32-N00C
PLL 04-M6C	PLL 5/32-N01C
PLL 04-01C	PLL 1/4-U10C
PLL 04-G01C	PLL 1/4-N00C
PLL 06-M5C	PLL 1/4-N01C
PLL 06-M6C	
PLL 06-01C	
PLL 06-G01C	

### MALE BRANCH TEE



Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PT 03-M3C	PT 1/8-U10C
PT 03-M5C	PT 1/8-N00C
PT 03-M6C	PT 1/8-N01C
PT 04-M3C	PT 5/32-U10C
PT 04-M5C	PT 5/32-N00C
PT 04-M6C	PT 5/32-N01C
PT 04-01C	PT 1/4-U10C
PT 04-G01C	PT 1/4-N00C
PT 06-M5C	PT 1/4-N01C
PT 06-M6C	
PT 06-01C	
PT 06-G01C	

### MALE RUN TEE



Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
PST 03-M3C	PST 1/8-U10C
PST 03-M5C	PST 1/8-N00C
PST 03-M6C	PST 1/8-N01C
PST 04-M3C	PST 5/32-U10C
PST 04-M5C	PST 5/32-N00C
PST 04-M6C	PST 5/32-N01C
PST 04-01C	PST 1/4-U10C
PST 04-G01C	PST 1/4-N00C
PST 06-M5C	PST 1/4-N01C
PST 06-M6C	
PST 06-01C	
PST 06-G01C	

### ELBOW (COMPACT)



Tube(Metric) - Thread(R)	Tube(Inch) - Thread(NPT)
NSE 03-M5C	NSE 1/8-U10C
NSE 04-M5C	NSE 5/32-U10C
NSE 06-M5C	NSE 1/4-U10C

### UNION STRAIGHT



Tube(Metric)
PUC 03C
PUC 04C
PUC 06C

Tube(Inch)
PUC 1/8C
PUC 5/32C
PUC 1/4C

### UNION ELBOW



Tube(Metric)
PUL 03C
PUL 04C
PUL 06C

Tube(Inch)
PUL 1/8C
PUL 5/32C
PUL 1/4C

### UNION TEE



Tube(Metric)
PUT 03C
PUT 04C
PUT 06C

Tube(Inch)
PUT 1/8C
PUT 5/32C
PUT 1/4C

### BULKHEAD UNION



Tube(Metric)
PMM 03C
PMM 04C
PMM 06C

Tube(Inch)
PMM 1/8C
PMM 5/32C
PMM 1/4C

### UNION Y



Tube(Metric)
PY 03C
PY 04C
PY 06C

Tube(Inch)
PY 1/8C
PY 5/32C
PY 1/4C

### BULKHEAD UNION ELBOW



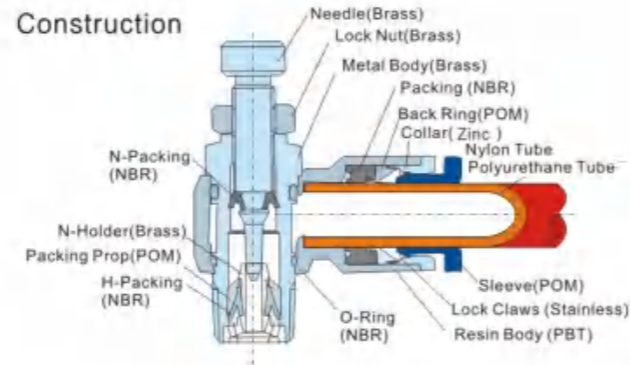
Tube(Metric)
PLM 03C
PLM 04C
PLM 06C

Tube(Inch)
PLM 1/8C
PLM 5/32C
PLM 1/4C

### Features

- Accurate regulation of air flow rate for precise motion control.
- All NPT & R(BSPT) thread are pre-coated with Teflon sealant



When you order control in type, Please put B at the end of model type. For example: NSE08-02B



Tube(Metric) - Thread(R)		Tube(Inch) - Thread(R)		Tube(Inch) - Thread(NPT)	
NSE04-M5	NSE08-03	NSE1/8-01	NSE5/16-03	NSE1/8-U10	NSE1/4-N02
NSE04-M6	NSE08-04	NSE1/8-02	NSE5/16-04	NSE1/8-N01	NSE1/4-N03
NSE04-01	NSE10-01	NSE5/32-01	NSE3/8-01	NSE1/8-N02	NSE5/16-N01
NSE04-02	NSE10-02	NSE5/32-02	NSE3/8-02	NSE5/32-U10	NSE5/16-N02
NSE04-03	NSE10-03	NSE3/16-01	NSE3/8-03	NSE5/32-N01	NSE5/16-N03
NSE06-M5	NSE10-04	NSE3/16-02	NSE3/8-04	NSE5/32-N02	NSE3/8-N01
NSE06-M6	NSE12-01	NSE3/16-03	NSE1/2-02	NSE3/16-U10	NSE3/8-N02
NSE06-01	NSE12-02	NSE1/4-01	NSE1/2-03	NSE5/16-N01	NSE3/8-N03
NSE06-02	NSE12-03	NSE1/4-02	NSE1/2-04	NSE3/16-N02	NSE3/8-N04
NSE06-03	NSE12-04	NSE1/4-03		NSE3/16-N03	NSE1/2-N02
NSE08-01	NSE16-03	NSE5/16-01		NSE1/4-U10	NSE1/2-N03
NSE08-02	NSE16-04	NSE5/16-02		NSE1/4-N01	NSE1/2-N04



Tube(Metric) - Thread(G)	
NSE04-G01	NSE10-G01
NSE04-G02	NSE10-G02
NSE04-G03	NSE10-G03
NSE06-G01	NSE10-G04
NSE06-G02	NSE12-G02
NSE06-G03	NSE12-G03
NSE08-G01	NSE12-G04
NSE08-G02	NSE16-G03
NSE08-G03	NSE16-G04
NSE08-G04	



Tube(Metric)	Tube(Inch)
NSF 04	NSF 1/8
NSF 06	NSF 5/32
NSF 08	NSF 3/16
NSF 10	NSF 1/4
NSF 12	NSF 5/16
	NSF 3/8
	NSF 1/2



Tube(Metric) - Thread(R)		Tube(Metric) - Thread(G)		Tube(Inch) - Thread(NPT)	
NSFSF04-01	NSFSF10-04	NSFSF04-G01	NSFSF10-G04	NSFSF1/8-N01	NSFSF3/8-N01
NSFSF06-01	NSFSF12-02	NSFSF06-G01	NSFSF12-G02	NSFSF5/32-N01	NSFSF3/8-N02
NSFSF06-02	NSFSF12-03	NSFSF06-G02	NSFSF12-G03	NSFSF3/16-N01	NSFSF3/8-N03
NSFSF08-01	NSFSF12-04	NSFSF08-G01	NSFSF12-G04	NSFSF1/4-N01	NSFSF3/8-N04
NSFSF08-02		NSFSF08-G02		NSFSF1/4-N02	NSFSF1/2-N01
NSFSF08-03		NSFSF08-G03		NSFSF5/16-N01	NSFSF1/2-N02
NSFSF10-02		NSFSF10-G02		NSFSF5/16-N02	NSFSF1/2-N03
NSFSF10-03		NSFSF10-G03		NSFSF5/16-N03	NSFSF1/2-N04



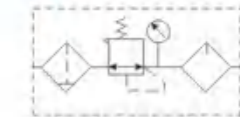
Tube(Metric) - Thread(R)		Tube(Metric) - Thread(G)		Tube(Inch) - Thread(NPT)	
NSFSS01-01		NSFSSG01-G01		NSFSSN01-N01	
NSFSS02-02		NSFSSG02-G02		NSFSSN02-N02	
NSFSS03-03		NSFSSG03-G03		NSFSSN03-N03	
NSFSS04-04		NSFSSG04-G04		NSFSSN04-N04	



### 订购码 Ordering Code

BC	3000	D
型号 Model	接管口径 Joint Pipe Code	排水方式 Drain Type
AC:小型	1500:G1/8"	空白: 差压排水
BC:中型	2000:G1/4"	D: 自动排水
AC:Small Size	3000:G3/8"	Blank:Differential Drain
BC:Middle Size	4000:G1/2"	D:Automatic Drain

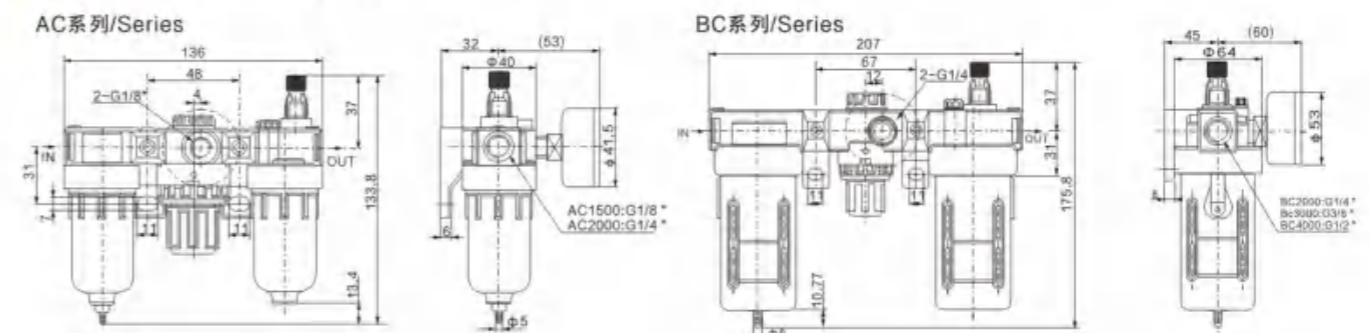
### 图形符号 Symbol



### 规格 Specification

型号 Model	AC1500	AC2000	BC2000	BC3000	BC4000
使用流体 Operating Fluid	空气 / Air				
接管口径 Joint Pipe Bore	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
滤芯粗度 Filtering Element Roughness	40μm				
调节压力范围 Range of Adjustable Pressure	0.05 - 0.85MPa				
最大可调压力 Max. Adjustable Pressure	0.95MPa				
保证耐压力 Ensured Pressure Resistance	1.5MPa				
使用温度范围 Operating Temperature Range	5-60°C				
滤水杯容量 Capacity of Filter Cup	15cc			60cc	
给油杯容量 Capacity of Oil Feed Cup	25cc			90cc	
建议润滑油 Suggested Lube	ISOVG32或同级用油/ISOVG32 or Same Grade Oil				
重量 Weight	0.7KG			0.9KG	
材质 Material	铝合金压铸成型 / Aluminum Die-casting Forming				
	PE				
	铁/Iron				
构成元件 Composing Elements	AF1500	AF2000	BF2000	BF3000	BF4000
	AR1500	AR2000	BR2000	BR3000	BR4000
	AL1500	AL2000	BL2000	BL3000	BL4000

### 外形尺寸 Overall Dimension

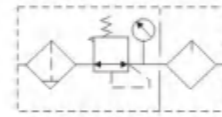




### ● 订购码 Ordering Code

BFC	2000	D
型号 Model	接管口径 Joint Pipe Code	排水方式 Drian Type
AFC:小型	1500:G1/8"	空白: 差压排水
BFC:中型	2000:G1/4"	D: 自动排水
AFC:Small Size	3000:G3/8"	Blank:Differential Drain
BFC:Middle Size	4000:G1/2"	D:Automatic Drain

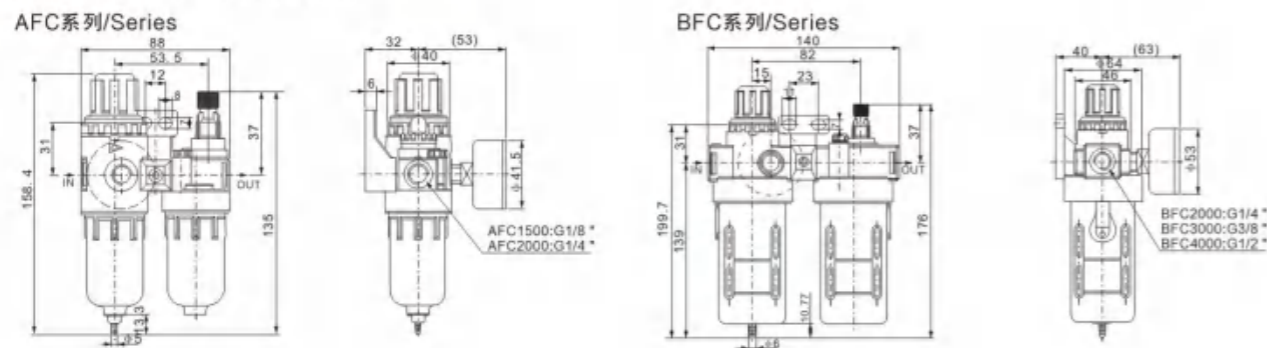
### ● 图形符号 Symbol



### ● 规格 Specification

型号 Model	AFC1500	AFC2000	BFC2000	BFC3000	BFC4000	
使用流体 Operating Fluid	空气 / Air					
接管口径 Joint Pipe Bore	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"	
滤芯精度 Filtering Element Roughness	40μm					
调节压力范围 Range of Adjustable Pressure	0.05 - 0.85MPa					
最大可调压力 Max. Adjustable Pressure	0.95MPa					
保证耐压力 Ensured Pressure Resistance	1.5MPa					
使用温度范围 Operating Temperature Range	5-60°C					
滤水杯容量 Capacity of Filter Cup	15cc		60cc			
给油杯容量 Capacity of Oil Feed Cup	25cc		90cc			
建议润滑油 Suggested Lube	ISOVG32或同级用油/ISOVG32 or Same Grade Oil					
重量 Weight	0.5KG		0.7KG			
材质 Material	本体 Body	铝合金压铸成型/ Aluminum Die-casting Forming				
	容杯 Container Cup	PE				
	保护杯罩 Protective Cup Cover	铁/Iron				
构成元件 Composing Elements	过滤调压阀 Filter & Regulator	AFR1500	AFR2000	BFR2000	BFR3000	BFR4000
	油雾器 Lubricator	AL1500	AL2000	BL2000	BL3000	BL4000

### ● 外形尺寸 Overall Dimension



### ● 订购码 Ordering Code

BF	3000	D
型号 Model	接管口径 Joint Pipe Code	排水方式 Drian Type
AF: 小型	1500:G1/8"	空白: 差压排水
BF: 中型	2000:G1/4"	D: 自动排水
AF: Small Size	3000:G3/8"	Blank:Differential Drain
BF: Middle Size	4000:G1/2"	D:Automatic Drain

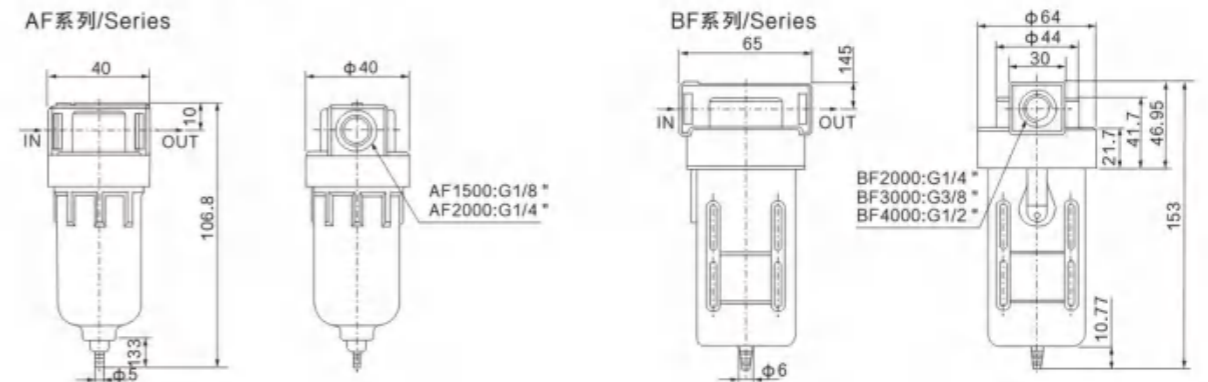
### ● 图形符号 Symbol



### ● 规格 Specification

型号 Model	AF1500	AF2000	BF2000	BF3000	BF4000
使用流体 Operating Fluid	空气 / Air				
接管口径 Joint Pipe Bore	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
滤芯精度 Filtering Element Roughness	40μm				
保证耐压力 Ensured Pressure Resistance	1.5MPa				
使用温度范围 Operating Temperature Range	5-60°C				
滤水杯容量 Capacity of Filter Cup	15cc	60cc			
重量 Weight	0.14KG	0.33KG			
材质 Material	本体 Body	铝合金压铸成型/ Aluminum Die-casting Forming			
	容杯 Container Cup	PE			
	保护杯罩 Protective Cup Cover	-	铁/Iron		

### ● 外形尺寸 Overall Dimension





AR2000

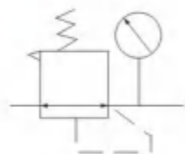


BR4000

### ● 订购码 Ordering Code

<b>BR</b>	<b>3000</b>
型号 Model	接管口径 Joint Pipe Code
AR: 小型	1500:G1/8"
BR: 中型	2000:G1/4"
AR: Small Size	3000:G3/8"
BR: Middle Size	4000:G1/2"

### ● 图形符号 Symbol

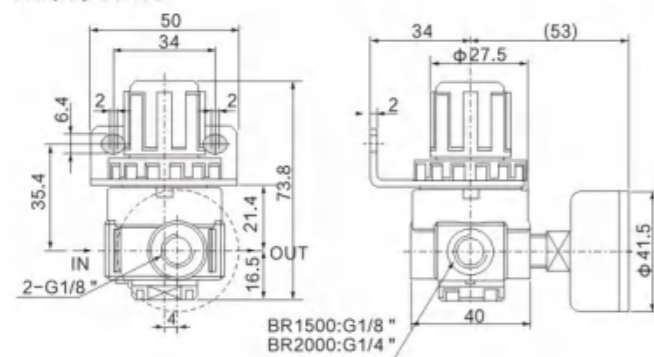


### ● 规格 Specification

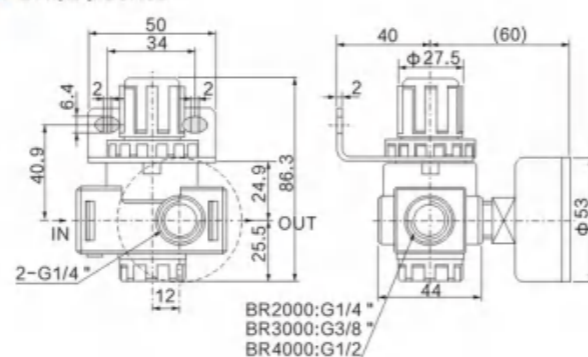
型号 Model	AR 1500	AR 2000	BR 2000	BR 3000	BR 4000
使用流体 Operating Fluid	空气 / Air				
接管口径 Joint Pipe Bore	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
调节压力范围 Range of Adjustable Pressure	0.05~0.85MPa				
最大可调压力 Max. Adjustable Pressure	0.95MPa				
保证耐压力 Ensured Pressure Resistance	1.5MPa				
使用温度范围 Operating Temperature Range	5~60°C				
重量 Weight	0.14KG	0.33KG			
本体材质 Material of Body	铝合金压铸成型/ Aluminum Die-casting Forming				

### ● 外形尺寸 Overall Dimension

AR系列/Series



● BR系列/Series



AL2000



BL4000

### ● 订购码 Ordering Code

<b>BL</b>	<b>3000</b>
型号 Model	接管口径 Joint Pipe Code
AL: 小型 Small Size	1500:G1/8" 2000:G1/4"
BL: 中型 Middle Size	3000:G3/8" 4000:G1/2"

### ● 图形符号 Symbol

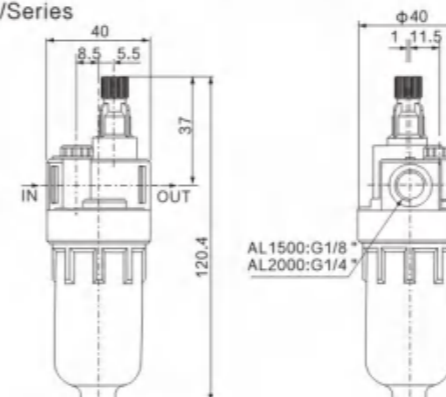


### ● 规格 Specification

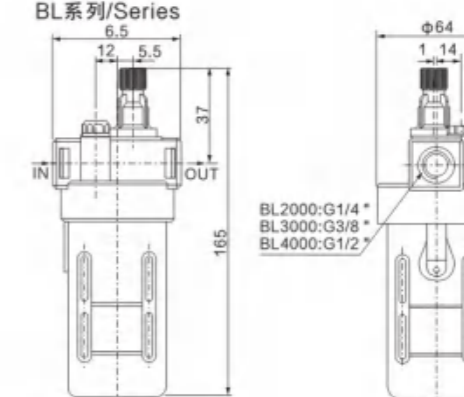
型号 Model	AL 1500	AL 2000	BL 2000	BL 3000	BL 4000
使用流体 Operating Fluid	空气 / Air				
接管口径 Joint Pipe Bore	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
保证耐压力 Ensured Pressure Resistance	1.5MPa				
使用温度范围 Operating Temperature Range	5~60°C				
建议润滑油 Suggested Lube	ISOVG32或同级用油/ISOVG32 or Same Grade Oil				
给油杯容量 Capacity Oil Feed Cup	1.5MPa				
重量 Weigh	25cc	90cc			
材质 Material	本体 Body	0.17Kg	0.25Kg		
	容杯 Container Cup	铝合金压铸成型/ Aluminum Die-casting Forming			
	保护杯罩 Protective Cup Cover	-	铁/Iron		

### ● 外形尺寸 Overall Dimension

AL系列/Series



BL系列/Series





AFR2000

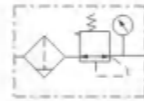


BFR4000

### ●订购码 Ordering Code

<b>BFR</b>	<b>2000</b>	<b>D</b>
<b>型号 Model</b>	<b>接管口径 Joint Pipe Code</b>	<b>排水方式 Drain Type</b>
AFR:小型Small Size BFR:中型Middle Size	1500:G1/8" 2000:G1/4" 3000:G3/8" 4000:G1/2"	空白: 差压排水 Blank:Differential Drain D: 自动排水 D:Automatic Drain

### 图形符号 Symbol

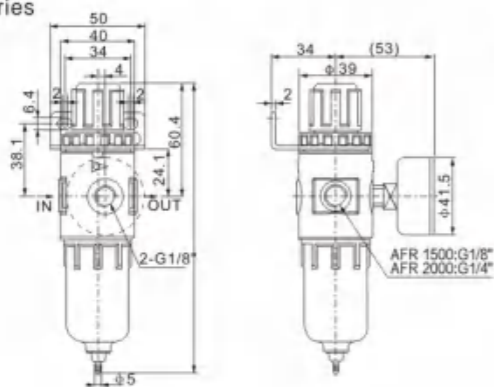


### ●规格 Specification

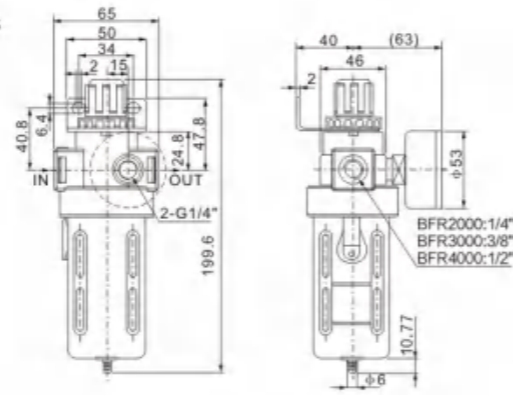
型号 Model	AFR1500	AFR2000	BFR2000	BFR3000	BFR4000
使用流体 Operating Fluid	空气 / Air				
接管口径 Joint Pipe Bore	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
调节压力范围 Range of Adjustable Pressure	0.05~0.85MPa				
最大可调压力 Max.Adjustable Pressure	0.95MPa				
保证耐压力 Ensured Pressure Resistance	1.5MPa				
使用温度范围 Operating Temperature Range	5~60°C				
滤水杯容量 Capacity Oil Feed Cup	15cc		60cc		
重量 Weigh	0.26Kg		0.40Kg		
材质 Material	铝合金压铸成型/ Aluminum Die-casting Forming				
	容杯 Container Cup				
	PE				
	保护杯罩 Protective Cup Cover				
	铁/Iron				

### ●外形尺寸 Overall Dimension

#### AFR系列 Series



#### BFR系列 Series



AC2000-02

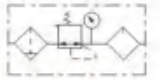


AC3000-03



AC5000-10

### ●图形符号 Symbol



### ●规格 Specification

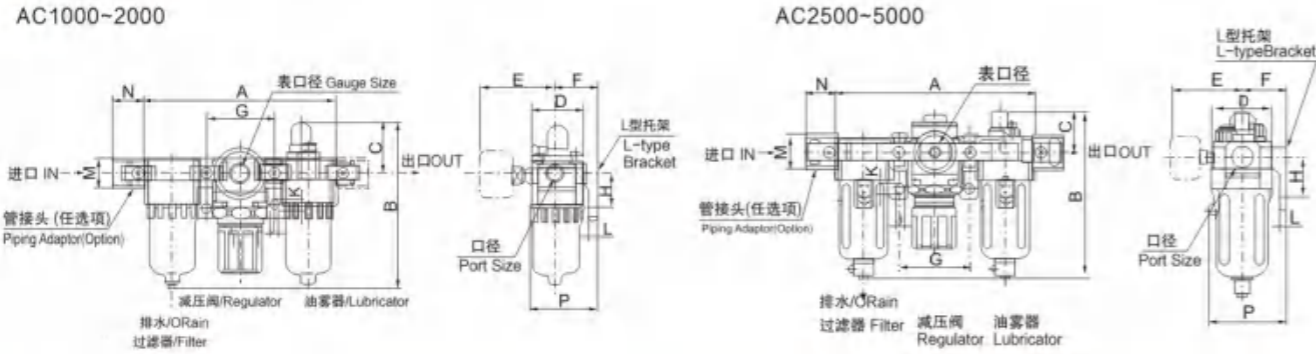
保证耐压力 Ensured Pressure Resistance	1.5MPa (15kgf/cm <sup>2</sup> )
最高使用压力 Highest Working Pressure	1.0MPa(10kgf/cm <sup>2</sup> )
环境及流体温度 Ambient and Fluid Temperature	5~60°C
*过滤精度 Filter Precision	25µm
建议用油 Recommended Oil Ues	透平1号油 Turbine No.1 Oil ISOVG32
容器材料 Container Material	聚碳酸酯 Polycarbonate
防护罩 Protective Cover	AC2000(无) (Not Available) AC3000-5000(有) (Available)
调压范围 Pressure Regulating Range	AC2000-5000:0.05~0.85MPa(0.5~8.5kgf/cm <sup>2</sup> )
阀型 Valve Type	带溢流型 With Overflow

\*还有5、50µm可供选择。5/50µm available as an option.

型号 Model	规格/Specifications						配件/Accessories		
	过滤器 Filter	减压阀 Regulator	油雾器 Lubricator	*额定流量 Rated Flow (L/min)	**接管口径 Port Size (G)	压力表口径 Pressure Gauge Size	重量 Weight (kg)	托架 Bracket (2个)	压力表 Pressure Gauge
AC1000-M5	AF1000	AR1000	AL1000	90	M5	1/16	0.26	Y10L	G27-10-R1
AC2000-01	AF2000	AR2000	AL2000	500	1/8	1/8	0.74	Y20L	G36-10-01
AC2000-02					1/4				
AC2500-02	AF3000	AR2500	AL3000	1500	1/4	1/8	1.04	Y30L	
AC2500-03					3/8				
AC3000-02	AF3000	AR3000	AL3000	2000	1/4	1/8	1.18	Y30L	
AC3000-03					3/8				
AC4000-03	AF4000	AR4000	AL4000	4000	3/8	1/4	2.14	Y40L	
AC4000-04					1/2				
AC4000-06	AF4000-06	AR4000-06	AL4000-06	4500	3/4	1/4	2.47	Y50L	G46-10-02
AC5000-06	AF5000	AR5000	AL5000	5000	3/4	1/4	3.82	Y60L	
AC5000-10					1				

\*供应压力为0.7MPa(7.1kgf/cm<sup>2</sup>)设定压力为0.5MPa(5.1kgf/cm<sup>2</sup>)的情况下\*Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm<sup>2</sup>)and set pressure is 0.5MPa(5.1kgf/cm<sup>2</sup>)  
\*\*接管口径另有Rc、NPT螺纹可供选择。/\*\*Rc and NPT port size available.

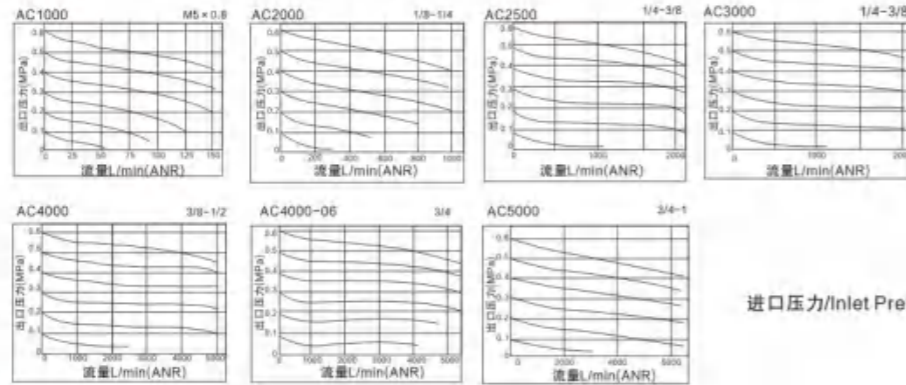
### ●外形尺寸 Overall Dimension



### ●尺寸表 Dimension Sheet

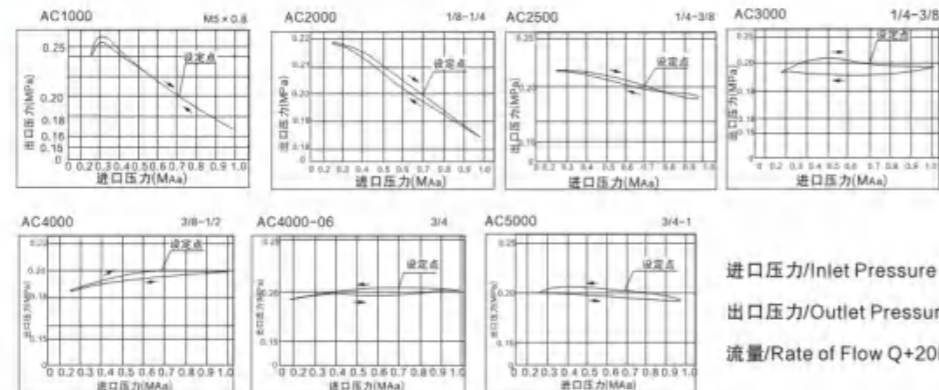
型号 Model	口径 Port Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P
AC1000	M5	91	84.5	25.5	25	26	25	33	20	4.5	7.5	5	17.5	16	38.5
AC2000	1/8~1/4	140	125	38	40	56.8	30	50	24	5.5	8.5	5	22	23	50
AC2500	1/4~3/8	181	156.5	38	53	60.8	41	64	35	7	11	7	34.2	36	70.5
AC3000	1/4~3/8	181	156.5	38	53	60.8	41	64	35	7	11	7	34.2	36	70.5
AC4000	3/8~1/2	238	191.5	41	70	65.5	50	84	40	9	13	7	42.2	33	88
AC4000-06	3/4	253	193	40.5	70	69.5	50	89	40	9	13	7	46.2	36	88
AC5000	3/4~1	300	271.5	48	90	75.5	69.8	105	50	12	16	10.5	55.2	40	115

### ●流量特性曲线 Characteristic Curve of Flow Rate



进口压力/Inlet Pressure P<sub>1</sub>=0.7MPa

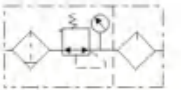
### ●压力特性曲线 Characteristic Curve of Pressure



进口压力/Inlet Pressure P<sub>1</sub>=0.7MPa  
出口压力/Outlet Pressure P<sub>2</sub>=0.7MPa  
流量/Rate of Flow Q=20L/min(ANR)



### ●图形符号 Symbol



### ●规格 Specification

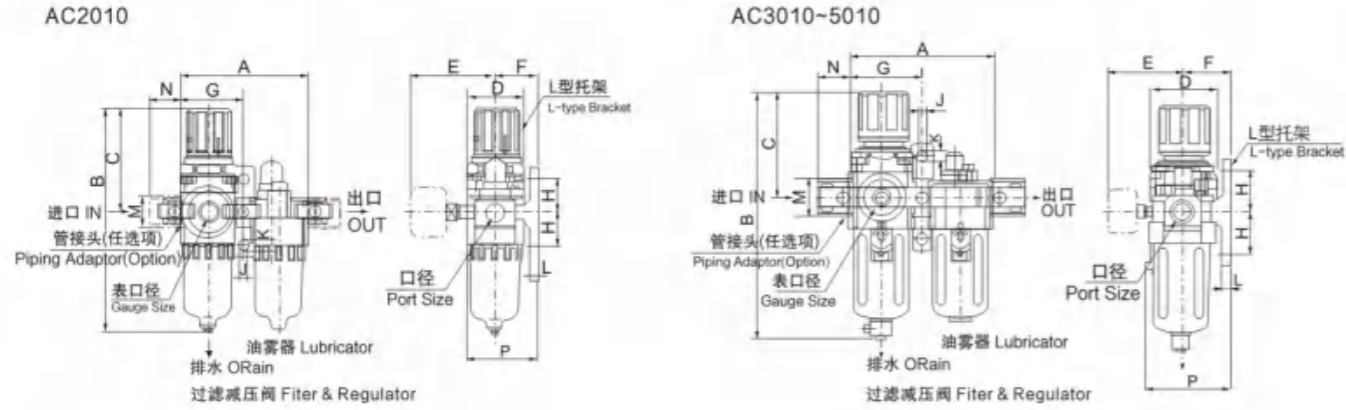
保证耐压力 Ensured Pressure Resistance	1.5MPa (15kgf/cm <sup>2</sup> )
最高使用压力 Highest Working Pressure	1.0MPa (10kgf/cm <sup>2</sup> )
环境及流体温度 Ambient and Fluid Temperature	5~60°C
*过滤精度 Filter Precision	25µm
建议用油 Recommended Oil Uses	透平1号油 Turbine No.1 Oil ISOVG32
容器材料 Container Material	聚碳酸酯 Polycarbonate
防护罩 Protective Cover	AC2010(无) (Not Available) AC3010~5010(有) (Available)
调压范围 Pressure Regulating Range	AC2010~5010:0.05~0.85MPa(0.5~8.5kgf/cm <sup>2</sup> )
阀型 Valve Type	带溢流型 With Overflow

\*还有5、50µm可供选择。5/50µm available as an option.

型号 Model	规格/Specifications					配件/Accessories		
	组件/A ssembly 过滤减压阀 Filter&Regulator	油雾器 Lubricator	*额定流量 Rated Flow (L/min)	**接管口径 Port Size (G)	压力表口径 Pressure Gauge Size	重量 Weight (kg)	托架 Bracket (2个)	压力表 Pressure Gauge
AC1010-M5	AW1000	AL1000	90	M5	1/16	0.22	Y10L	G27-10-R1
AC2010-01	AW2000	AL2000	500	1/8	1/8	0.66	Y20T	G36-10-01
AC2010-02				1/4				
AC3010-02	AW3000	AL3000	1700	1/4	1/8	0.98	Y30T	G36-10-01
AC3010-03				3/8				
AC4010-03	AW3000	AL3000	3000	3/8	1/4	1.93	Y40T	G46-10-02
AC4010-04				1/2				
AC4010-06	AW4000-06	AL4000-06	3000	3/4	1/4	1.99	Y50T	G46-10-02
AC5010-06	AW5000	AL5000	4000	3/4	1/4	3.20	Y60T	
AC5010-10				1				

\*供应压力为0.7MPa(7.1kgf/cm<sup>2</sup>)设定压力为0.5MPa(5.1kgf/cm<sup>2</sup>)的情况下  
\*Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm<sup>2</sup>)and set pressure is 0.5MPa(5.1kgf/cm<sup>2</sup>)  
\*\*接管口径另有Rc、NPT螺纹可供选择。/\*\*Rc and NPT port size available.

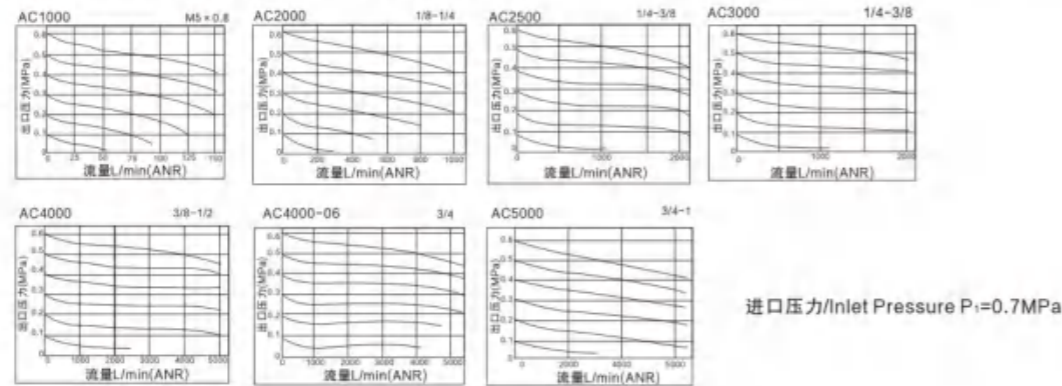
### ●外形尺寸 Overall Dimension



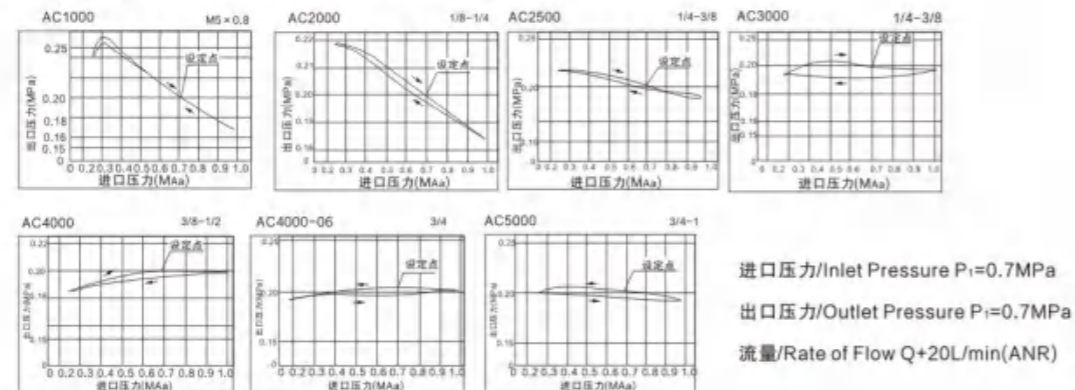
### ●尺寸表 Dimension Sheet

型号 Model	口径 Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N	P
AC1000	M5	58	109.5	50.5	25	26	25	29	20	4.5	7.5	5	17.5	16	38.5
AC2010	1/8-1/4	90	164.5	78	40	56.8	30	45	24	5.5	8.5	5	22	23	50
AC3010	1/4-3/8	117	211	92.8	53	60.8	41	58.5	35	7	11	7	34.2	26	70.5
AC4010	3/8-1/2	154	262	112	70	70.5	50	77	40	9	13	7	42.2	33	88
AC4010-06	3/4	164	267	114	70	70.5	50	82	40	9	13	7	46.2	36	88
AC5010	3/4-1	195	338	116	90	75.5	69.8	97.5	50	12	16	10.5	55.2	40	115

### ●流量特性曲线 Characteristic Curve of Flow Rate



### ●压力特性曲线 Characteristic Curve of Pressure



### ●图形符号 Symbol



### ●规格 Specification

保证耐压力 Ensured Pressure Resistance	1.5MPa (15kgf/cm <sup>2</sup> )
最高使用压力 Highest Working Pressure	1.0MPa(10kgf/cm <sup>2</sup> )
环境及流体温度 Ambient and Fluid Temperature	5-60°C
*过滤精度 Filter Precision	25μm
容器材料 Container Material	聚碳酸酯 Polycarbonate
防护罩 Protective Cover	AF1000-2000(无) (Not Available) AF3000-5000(有) (Available)

\*还有5、50μm可供选项。5/50μm available as an option.

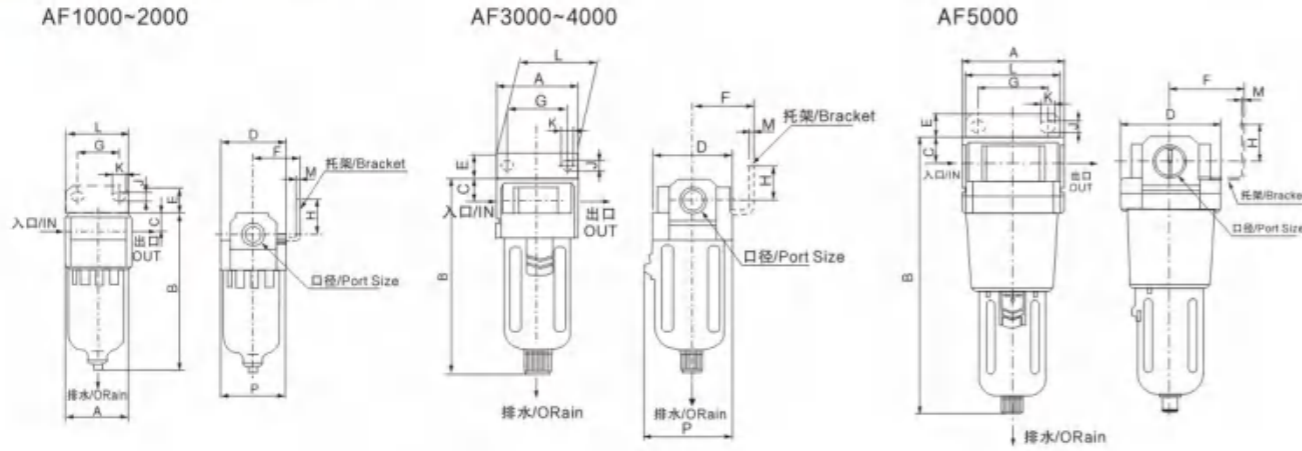
型号 Model	规格/Specifications				配件/Accessories 托架 Bracket (2个)	放水器功能 Drain Function	自动排水型号 Auto Drain Model
	*额定流量 Rated Flow (L/min)	**接管口径 Port Size (G)	杯容量 Bowl Capacity (Cm <sup>3</sup> )	重量 Weight (kg)			
AF1000-M5	110	M5	4	0.07	-	无说明都为排气排水(手动放水与自动放水可供选择) No explain is air shutodd drain (Manual drain or Auto drain can choice)	-
AF2000-01	750	1/8	15	0.19	B240		AF2000-01D
AF2000-02		1/4					AF2000-02D
AF3000-02	1500	1/4	20	0.29	B340		AF3000-02D
AF3000-03		3/8					AF3000-03D
AF4000-03		3/8					AF4000-03D
AF4000-04	4000	1/2	45	0.55	B440		AF4000-04D
AF4000-06		3/4					AF4000-06D
AF5000-06	7000	3/4	130	1.08	B640		AF5000-06D
AF5000-10		1					AF5000-10D

\*供应压力为0.7MPa(7.1kgf/cm<sup>2</sup>)设定压力为0.5MPa(5.1kgf/cm<sup>2</sup>)的情况下

\*Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm<sup>2</sup>)and set pressure is 0.5MPa(5.1kgf/cm<sup>2</sup>)

\*\*接管口径另有Rc、NPT螺纹可供选项。/\*\*Rc and NPT port size aailable.

### ●外形尺寸 Overall Dimension

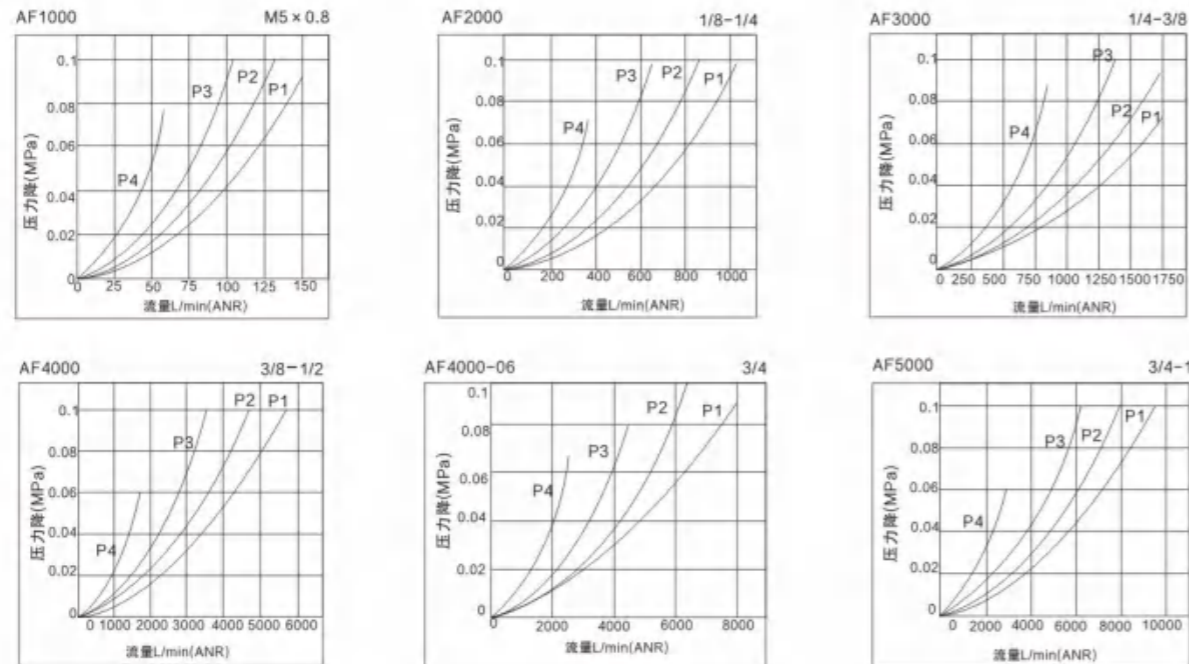


### ●尺寸表 Dimension Sheet

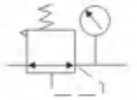
型号 Model	口径 G Port Size	A	B	C	D	E	F	G	H	J	K	L	M	P
AF1000	M5	25	66	7	25	-	-	-	-	-	-	-	-	26.5
AF2000	1/8-1/4	40	97.5	11	40	17	30	27	22	5.4	8.4	40	2.3	40
AF3000	1/8-3/8	53	132.5	14	53	16	41	40	23	6.5	8	53	2.3	56
AF4000	3/8-1/2	70	168.5	18	70	17	50	54	26	8.5	10.5	70	2.3	73
AF4000-06	3/4	75	172.5	20	70	14	50	54	25	8.5	10.5	70	2.3	73
AF5000	3/4-1	90	247.5	24	90	23	66.5	66	35	11	13	90	3.2	90

### ●流量特性曲线 Characteristic Curve of Flow Rate

注:P1=0.7MPa P2=0.7MPa P3=0.3MPa P4=0.1MPa



### ●图形符号 Symbol



### ●规格 Specification

保证耐压力 Ensured Pressure Resistance	1.5MPa (15kgf/cm <sup>2</sup> )
最高使用压力 Highest Working Pressure	1.0MPa(10kgf/cm <sup>2</sup> )
*调压范围 Pressure Regulating Range	AR2000-5000:0.05-0.85MPa(0.5-8.5kgf/cm <sup>2</sup> )
环境及流体温度 Ambient and Fluid Temperature	5-60°C
阀型 Valve Type	带溢流型 With Overflow

\*还有5、50μm可供选择。5/50μm available as an option.

型号 Model	规格/Specifications				配件/Accessories	
	*额定流量 Rated Flow (L/min)	**接管口径 Port Size (G)	压力表口径 Pressure Gauge Size	重量 Weight (kg)	托架 Bracket (2个)	压力表 Pressure Gauge
AR1000-M5	100	M5	1/16	0.08	B120	G27-10-R1
AR2000-01	550	1/8	1/8	0.27	B220	G36-10-01
AR2000-02		1/4				
AR2500-02	2000	1/4	1/8	0.27	B220	G36-10-01
AR2500-03		3/8				
AR3000-02	2500	1/4	1/8	0.41	B320	G36-10-01
AR3000-03		3/8				
AR4000-03	6000	3/8	1/4	0.84	B420	G46-10-02
AR4000-04		1/2				
AR4000-06	6000	3/4	1/4	0.94	B420	G46-10-02
AR5000-06	8000	3/4	1/4	1.19		
AR5000-10		1				

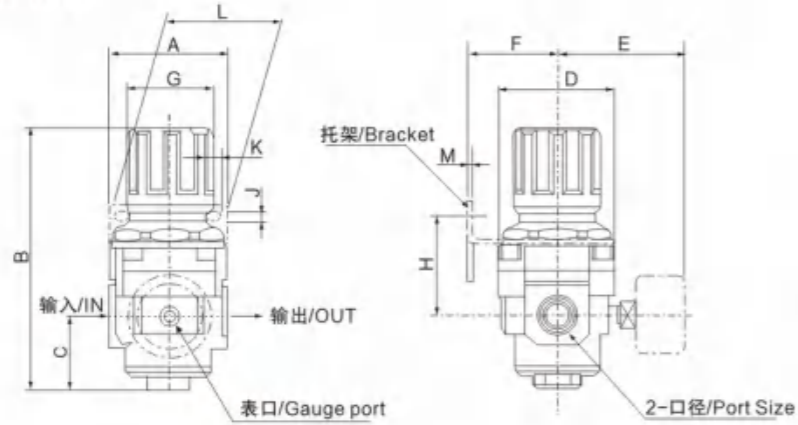
\*供应压力为0.7MPa(7.1kgf/cm<sup>2</sup>)设定压力为0.5MPa(5.1kgf/cm<sup>2</sup>)的情况下

\*\*Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm<sup>2</sup>) and set pressure is 0.5MPa(5.1kgf/cm<sup>2</sup>)

\*\*接管口径另有Rc、NPT螺纹可供选择。/ \*\*Rc and NPT port size available.

### ●外形尺寸 Overall Dimension

AR1000~5000



面板切销孔/Panel Cut Hole

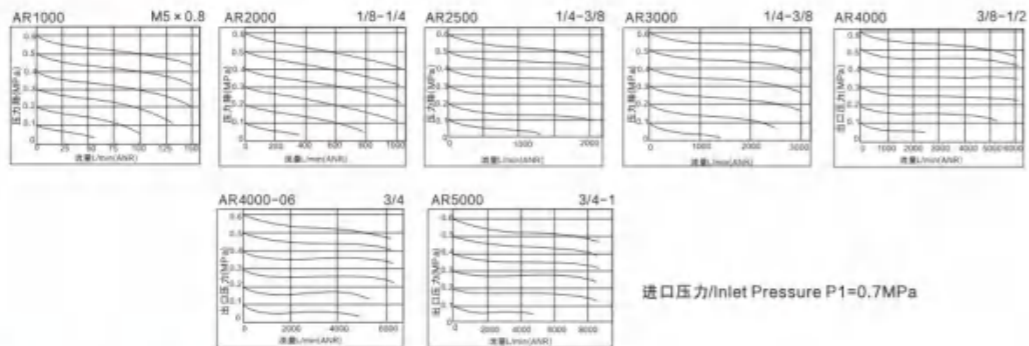


SR1000~3000:最大厚度/Max × 3.5  
SR4000~5000:最大厚度/Max × 5

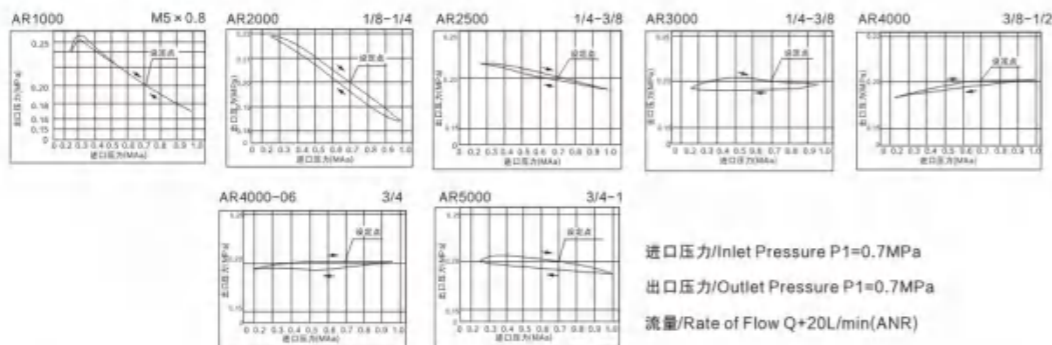
### ●尺寸表 Dimension Sheet

型号 Model	口径 Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N
AR1000	M5	25	61.5	11	25	26	25	28	30	4.5	6.5	40	2	20.5
AR2000	1/8~1/4	40	95	17	40	56.8	30	34	44	5.4	15.4	55	2.3	33.5
AR2500	1/4~3/8	53	102.5	25	48	60.8	30	34	44	5.4	15.4	55	2.3	33.5
AR3000	1/2~3/8	53	127.5	35	53	60.8	39	40	46	6.5	8	53	2.3	42.5
AR4000	3/8~1/2	70	149.5	37.5	70	65.5	49.2	54	54	8.5	10.5	70	2.3	52.5
AR4000-06	3/4	75	154	40.5	70	69.5	49.2	54	55.5	8.5	10.5	70	2.3	52.5
AR5000	3/4~1	90	168	48	90	75.5	49.2	54	62	8.5	10.5	70	2.3	52.5

### ●流量特性曲线 Characteristic Curve of Flow Rate



### ●压力特性曲线 Characteristic Curve of Pressure



### ●图形符号 Symbol



### ●规格 Specification

保证耐压力 Ensured Pressure Resistance	1.5MPa (15kgf/cm <sup>2</sup> )
最高使用压力 Highest Working Pressure	1.0MPa(10kgf/cm <sup>2</sup> )
环境及流体温度 Ambient and Fluid Temperature	5~60°C
建议用油 Recommended Oil Uses	透平1号油 Turbine No.1 Oil ISOVG32
容器材料 Container Material	聚碳酸酯 Polycarbonate
防护罩 Protective Cover	AL2000(无) (Not Available) AL3000~5000(有) (Available)

\*还有5、50μm可供选择。5/50μm available as an option.

型号 Model	规格/Specifications					配件/Accessories
	*油滴最小流量 Min. Flow of Oil Drop (L/min)	*额定流量 Rated Flow (L/min)	**接管口径 Port Size (G)	杯容量 (Cm <sup>3</sup> ) Bowl Capacity	重量 Weight (kg)	
AL1000-M5	4	95	M5	7	0.07	-
AL2000-01	15	800	1/8	25	0.22	B240
AL2000-02			1/4			
AL3000-02	30	1700	1/4	50	0.30	B340
AL3000-03			3/8			
AL4000-03			3/8			
AL4000-04	50	5000	1/2	130	0.56	B440
AL4000-06			3/4			
AL5000-06	190	7000	3/4	130	1.08	B640
AL5000-10			1			

\*供应压力为0.5MPa(5.1kgf/cm<sup>2</sup>),油滴流量为5滴/分钟,透平1号油(ISOVG32)温度20°C情况下。

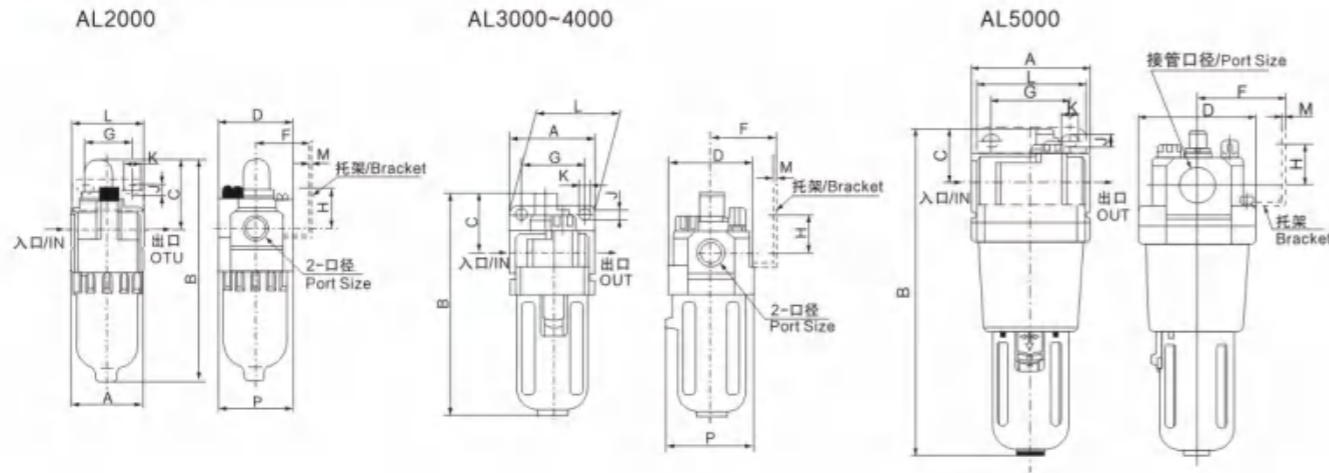
\*Under the circumstance that the supply pressure is 0.5MPa(5.1kgf/cm<sup>2</sup>), Oil drop flow is 5drops/minute, use of Turbine NO.1 Oil and 20°C tempaure.

\*\*供应压力为0.5MPa(5.1kgf/cm<sup>2</sup>),压降为0.03MPa(0.3kgf/cm<sup>2</sup>)的情况下。

\*\*Under the circumstance that the supply pressure is 0.5MPa(5.1kgf/cm<sup>2</sup>) and setp down is 0.03MPa(0.3kgf/cm<sup>2</sup>).

\*\*接管口径另有Rc、NPT螺纹可供选择。/\*\*Rc and NPT port size aailable.

### ●外形尺寸 Overall Dimension

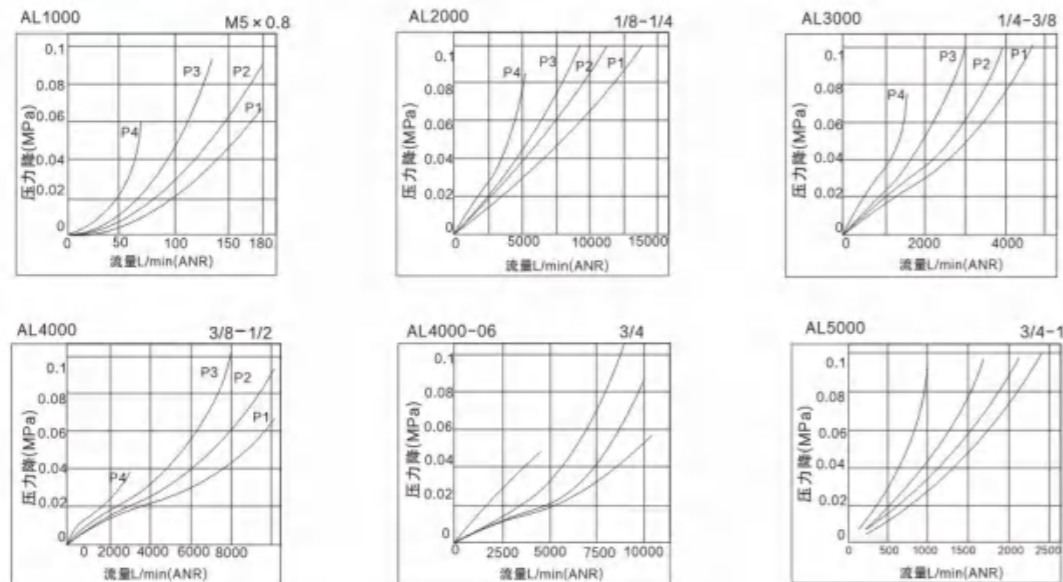


### ●尺寸表 Dimension Sheet

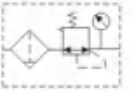
型号 Model	口径 G Port Size	A	B	C	D	F	G	H	J	K	L	M	P
AL1000	M5	25	81.5	25.5	25	-	-	-	-	-	-	-	27
AL2000	1/8-1/4	40	122	38	40	30	27	22	5.4	8.4	40	2.3	40
AL3000	1/4-3/8	53	142	38	53	41	40	23	6.5	8	53	2.3	56
AL4000	3/8-1/2	70	177	41	70	50	54	26	8.5	10.5	70	2.3	73
AL4000-06	3/4	75	177	39	70	50	54	25	8.5	10.5	70	2.3	73
AL5000	3/4-1	90	254	45	90	66.5	66	35	11	13	90	3.2	90

### ●流量特性曲线 Characteristic Curve of Flow Rate

注:P1=0.7MPa P2=0.7MPa P3=0.3MPa P4=0.1MPa



### ●图形符号 Symbol



### ●规格 Specification

保证耐压力 Ensured Pressure Resistance	1.5MPa (15kgf/cm <sup>2</sup> )
最高使用压力 Highest Working Pressure	1.0MPa(10kgf/cm <sup>2</sup> )
环境及流体温度 Ambient and Fluid Temperature	5~60°C
*过滤精度 Filter Precision	25 μm
容器材料 Container Material	聚碳酸酯 Polycarbonate
防护罩 Protective Cover	AW2000(无) (Not Available) AW3000~5000(有) (Available)
调压范围 Pressure Regulating Range	AW2000~5000:0.05~0.85MPa(0.5~8.5kgf/cm <sup>2</sup> )
阀型 Valve Type	带溢流型 With Overflow

\*还有5、50μm可供选择。5/50μm available as an option.

型号 Model	规格/Specifications				配件/Accessories		放水器功能 Drain Function	自动排水型号 Auto Drain Model
	*额定流量 Pated Flow (L/min)	**接管口径 Port Size (G)	压力表口径 Pressure Gauge Size	重量 Weight (kg)	托架 Bracket (2个)	压力表 Pressure Gauge		
AW1000-M5	100	M5	1/16	0.09	B120	G27-10-R1	手动排水 Manual Drain	-
AW2000-01	550	1/8	1/8	0.36	B220	G36-10-01		AW2000-01D
AW2000-02		1/4					AW2000-02D	
AW3000-02	2000	1/4	1/8	0.56	B320	G36-10-01	a. 排气排水 Air Shutoff Drain	AW3000-02D
AW3000-03		3/8					AW3000-03D	
AW4000-03	4000	3/8	1/4	1.15	B420	G46-10-02	b. 手动排水 Manual Drain	AW4000-03D
AW4000-04		1/2						AW4000-04D
AW4000-06	4500	3/4	1/4	1.21	B420	G46-10-02	b. 手动排水 Manual Drain	AW4000-06D
AW5000-06		3/4						AW5000-06D
AW5000-10	5500	1	1/4	1.70	B420	G46-10-02	b. 手动排水 Manual Drain	AW5000-10D

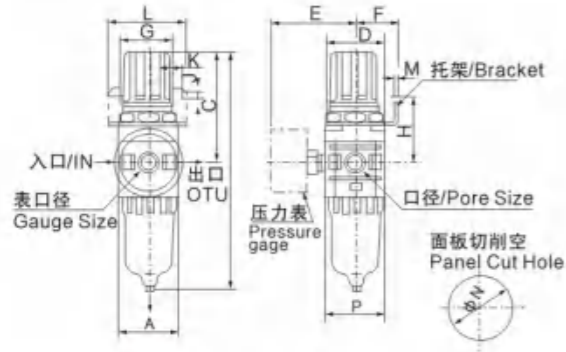
\*供应压力为0.7MPa(7.1kgf/cm<sup>2</sup>)设定压力为0.5MPa(5.1kgf/cm<sup>2</sup>)的情况下

\*Under the circumstance that the supply pressure is 0.7MPa(7.1kgf/cm<sup>2</sup>) and set pressure is 0.5MPa(5.1kgf/cm<sup>2</sup>)

\*\*接管口径另有Rc、NPT螺纹可供选择。/\*\*Rc and NPT port size available.

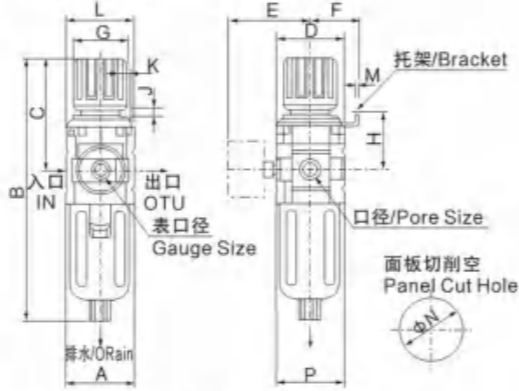
### ●外形尺寸 Overall Dimension

AW1000-2000



AW1000:最大厚度/Max.gage3.5  
AW2000:最大厚度/Max.gage5

AW3000-5000

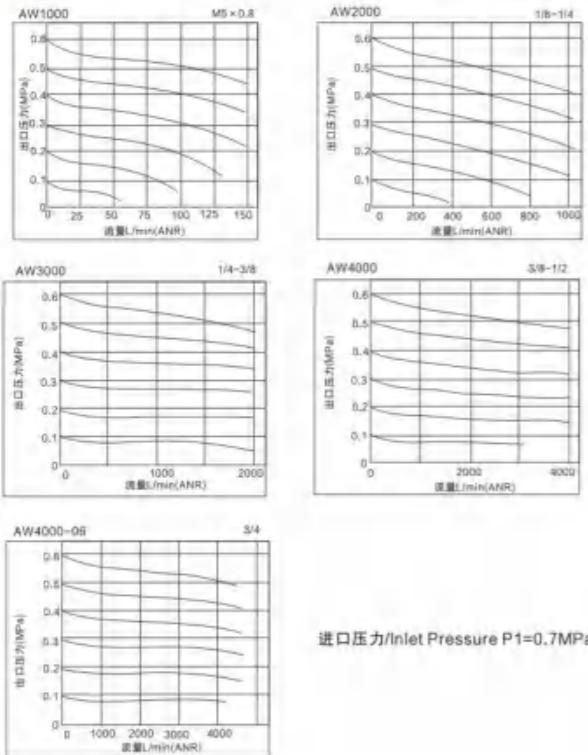


AW3000:最大厚度/Max.gage3.5  
AW4000-5000:最大厚度/Max.gage5

### ●尺寸表 Dimension Sheet

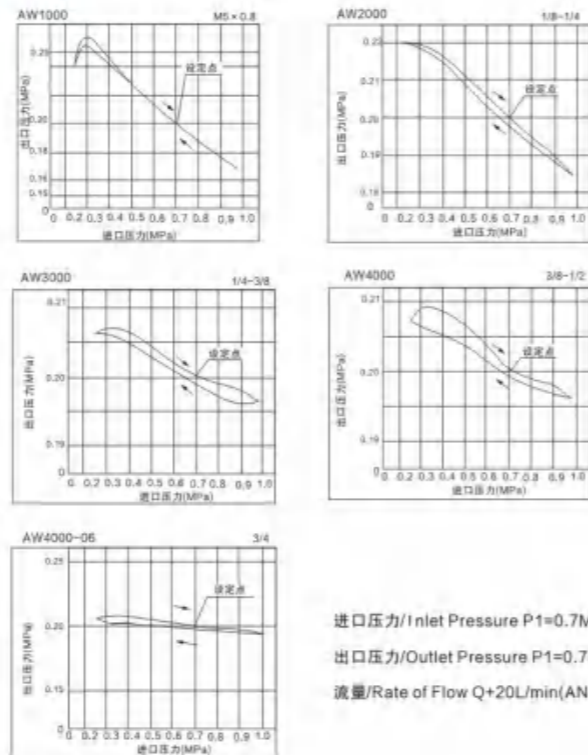
型号 Model	口径(G) Port Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P
AW1000	M5	25	109.5	50.5	25	26	25	28	30	4.5	6.5	40	2	20.5	28
AW2000	1/8-1/4	40	164.5	78	40	56.8	30	34	43.5	5.4	15.4	55	2.3	33.5	40
AW3000	1/4-3/8	53	211	92.5	53	60.8	39	40	46	6.5	8	53	2.3	42.5	56
AW4000	3/8-1/2	70	262	112	70	70.5	49.2	54	53.5	8.5	10.5	70	2.3	52.5	73
AW4000-06	3/4	75	267	114	70	70.5	49.2	54	55.5	8.5	10.5	70	2.3	52.5	73
AW5000	3/4-1	90	336	116	90	75.5	49.2	54	62	8.5	10.5	70	2.3	52.5	90

### ●流量特性曲线 Characteristic Curve of Flow Rate



进口压力/Inlet Pressure P1=0.7MPa

### ●压力特性曲线 Characteristic Curve of Pressure



进口压力/Inlet Pressure P1=0.7MPa  
出口压力/Outlet Pressure P2=0.7MPa  
流量/Rate of Flow Q+20L/min(ANR)

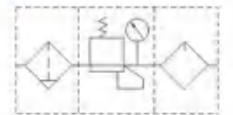


### ●订购码 Ordering Code

代号 Code	功能代号 Series	接管口径 Port Size	排水方式 Drain	压力表形式 Pressure Gauge	刻度单位 Indication	过滤精度 Indication	牙型代码 Thread
GC三联件	200系列	06: 1/8"	空白: 差压排水式	F: 方形表	1: MPa	空白: 40μm级	空白: PT牙
GFC二联件	300系列	08: 1/4"	M: 标准手排式	C: 传统表	2: Psi	W: 5μm级	G: G牙
GFR调压过滤器	400系列	10: 3/8"	A: 自动排水式	F: Square	3: Bar	Blank: 40μm	T: NPT牙
GR减压阀	200 Series	15: 1/2"	Blank: Semi-auto drain	C: Circular		W: 5μm	Blank: PT
GL油雾器	300 Series						G: G
GC: 3 Combination	400 Series		M: Manual drain				T: NPT
GFC: 2 Combination			A: Automatic drain				
GFR: Filter-Regulator							
GR: Regulator							
GL: Lubricator							

\*注: GC200系列无自动排水式;  
\*\*注: 低压力最大可调压力为: 0.4MPa(58Psi)  
\*Note: No Auto Drain type is available on GC 200 Series.  
\*\*Note: Max. adjustable pressure is at 0.4 MPa on Low pressure type.

### ●图形符号 Symbol

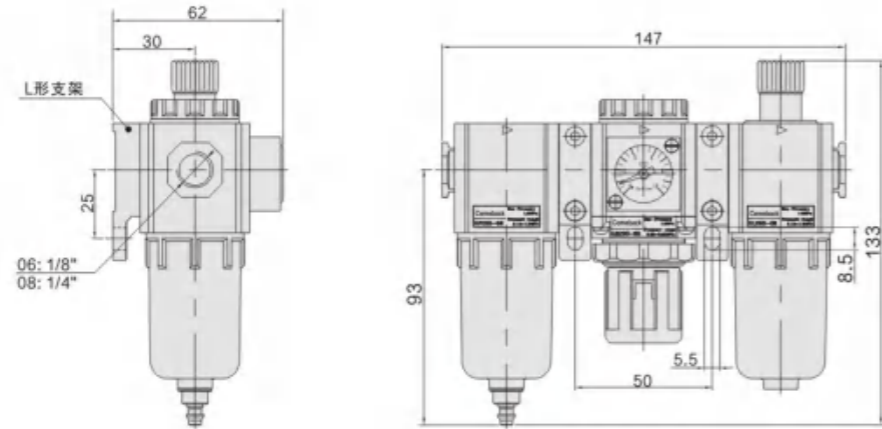


### ●规格 Specification

型号 Model	GC200-06	GC200-08	GC300-08	GC300-10	GC300-15	GC400-10	GC400-15	
工作介质 Working medium	空气/Air							
接管口径 Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"	G3/8"	G1/2"	
滤芯精度 Filtration	40μm或5μm / 40μm or 5μm							
调节压力范围 Adjustable pressure range	0.15-0.9MPa							
最大可调压力 Maximum working pressure	1.0MPa							
保证耐压力 Proof Pressure	1.5MPa							
使用温度范围 Operating Temperature Range	5-60°C							
滤水杯容量 Capacity of Filter Cup	10CC		40CC		80CC			
给油杯容量 Capacity of Oil Cup	25CC		75CC		160CC			
建议润滑油 Proposed Lubrication	ISOVG32或同级用油/ISO VG 32 or Same Grade							
重量 Weight	580g		1300g		2358g			
构成元件 Components	过滤器 Filter	GF200-06	GF200-08	GF300-08	GF300-10	GF300-15	GF400-10	GF400-15
	减压阀 Regulator	GR200-06	GR200-08	GR300-08	GR300-10	GR300-15	GR400-10	GR400-15
	油雾器 Lubricator	GL200-06	GL200-08	GL300-08	GL300-10	GL300-15	GL400-10	GL400-15

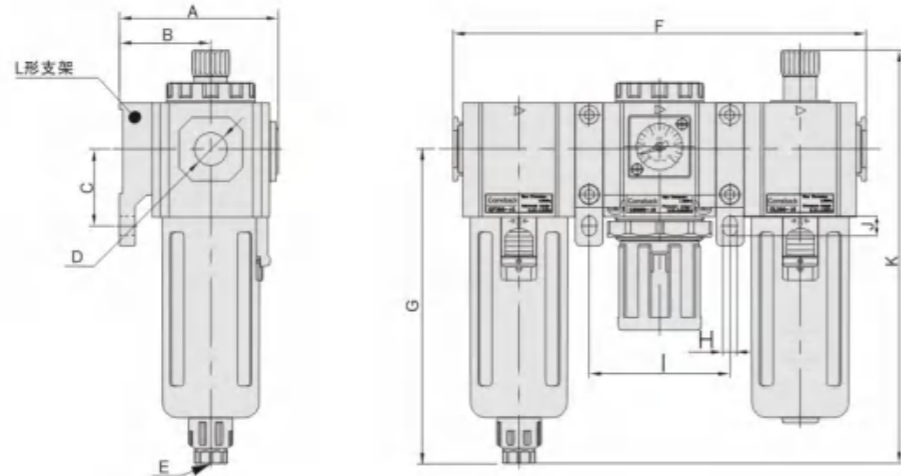
●外形尺寸 Overall Dimension

GC200



GC300

GC400



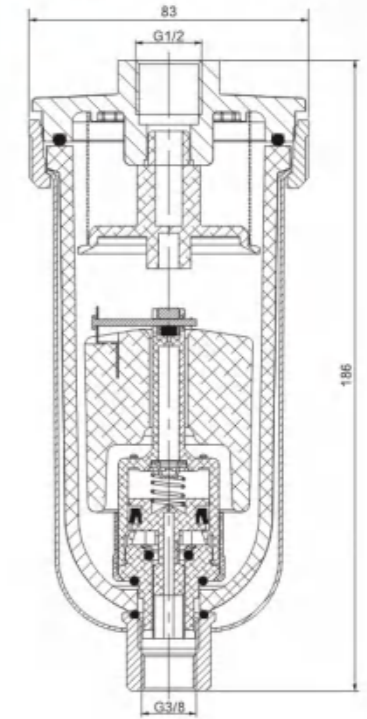
●尺寸表 Dimension Sheet

型号/符号 Model / Symbol	A	B	C	D	E	F	G	H	I	J	K
GC300-08	72	41.5	35	G1/4"	G1/8"	188	143	6.5	64	9	188
GC300-10	72	41.5	35	G3/8"	G1/8"	188	143	6.5	64	9	188
GC300-15	72	41.5	35	G1/2"	G1/8"	188	143	6.5	64	9	188
GC400-10	89	50	40	G3/8"	G1/4"	248	166.5	8.6	84	12	216
GC400-15	89	50	40	G1/2"	G1/4"	248	166.5	8.6	84	12	216

●外形尺寸 Overall Dimension



CO402-S



●用途 Purpose

常用于自动排除管道低处, 冷冻式空气干燥机, 油水分离器, 贮气罐及各种空气过滤器底部等处的积水, 可安装在不便于进行人工排放污水的地方, 如高处、低处、狭隘处; 特别是安装在用气量较大, 放水次数较频繁的地方, 可防止人工排水被遗忘而造成压缩空气被冷凝水重新污染。

This product often applies to auto remove the seewer at the lower pl-aces of piping, frozen type air drying machine, oil separator, air drying tanks and the bottom of various air filters. It can be installed in the pl-aces inconvenient for manual dis-charge of sewage. Such as higher, lower and narrow places, especially there' S large consumption of air of frequent water d rains. It can prev-ent the compressed air being re-polluted by condense water resul-ting frOm neglect of manual drain.

●特性 Features

自动排水/Auto drain; 停气排水/Air Shut off Drain;

●注意事项 Points for Attention

使用时, 必须垂直位置安装, 且使排水口朝下。  
When using, the drainer should be installed vertically the drain port facing down

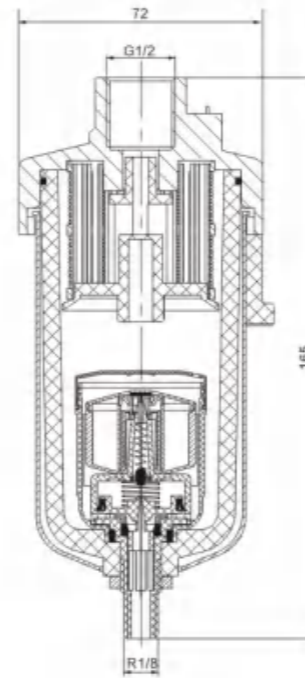
●规格、型号、技术参数 Specifications, models and technical parameter

型号/Model	CO402-S-02	CO402-S-03	CO402-S-04
保证耐压力/Ensured Pressure Resistance	1.5MPa		
动作压力/Operating Pressure	0.3-0.8MPa		
环境及流体温度/Ambient and Fluid Temperature	5-60°C		
接管口径/Port Size	G1/4	G3/8	G1/2
排水口径/Drain Port Size	G3/8		
排水状态/Drain Status	常开型/Normal Open Type		
工作介质/Woring Medium	压缩空气/Compressed air		

### ●外形尺寸 Overall Dimension



CO402-X



### ●用途 Purpose

常用于自动排除管道低处，冷冻式空气干燥机，油水分离器，贮气罐及各种空气过滤器底部等处的积水，可安装在不便于进行人工排放污水的地方，如高处、低处、狭隘处；特别是安装在用气量较大，放水次数较频繁的地方，可防止人工排水被遗忘而造成压缩空气被冷凝水重新污染。

This product often applies to auto remove the seewer at the lower places of piping, frozen type air drying machine, oil separator, air drying tanks and the bottom of various air filters. It can be installed in the places inconvenient for manual discharge of sewage. Such as higher, lower and narrow places, especially there's large consumption of air of frequent water drains. It can prevent the compressed air being re-polluted by condense water resulting from neglect of manual drain.

### ●特性 Features

自动排水/Auto drain; 停气排水/Air Shut off Drain;

### 注意事项 Points for Attention

使用时，必须垂直位置安装，且使排水口朝下。  
When using, the drainer should be installed vertically the drain port facing down

### ●规格、型号、技术参数 Specifications, models and technical parameters

型号/Model	CO402-X-02	CO402-X-03	CO402-X-04
保证耐压力/Ensured Pressure Resistance	1.5MPa		
动作压力/Operating Pressure	0.2-0.8MPa		
环境及流体温度/Ambient and Fluid Temperature	5-60°C		
接管口径/Port Size	G1/4	G3/8	G1/2
排水口径/Drain Port Size	G3/8		
排水状态/Drain Status	常开型/Normal Open Type		
工作介质/Woring Medium	压缩空气/Compressed air		



4V120-L-06

### ●订购码 Ordering Code

4V	1	10	L	06	DC24V	□
<b>规格代码</b> Specification Code	<b>系列代码</b> Series Code	<b>线圈及位数</b> Coil and Places	<b>新款系列</b> New Series	<b>接管口径</b> Port Size	<b>标准电压</b> Standard Voltage	<b>接线形式</b> Wiring Form
4V:二(三)位五通电磁阀 3V:二位三通电磁阀 4V:Two(Three)-position Five-way Solenoid Valve 3V:Two-position Three-way Solenoid Valve	100系列 100 Series	10:单头双位置 20:双头双位置 30C:双头三位置封闭型 30E:双头三位置排气型 30P:双头三位置压力型 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type		M5:M5 × 0.8 06:G1/8"	DC12V DC24V AC110V AC220V	空白:直接引线 Blank:Direct Lead

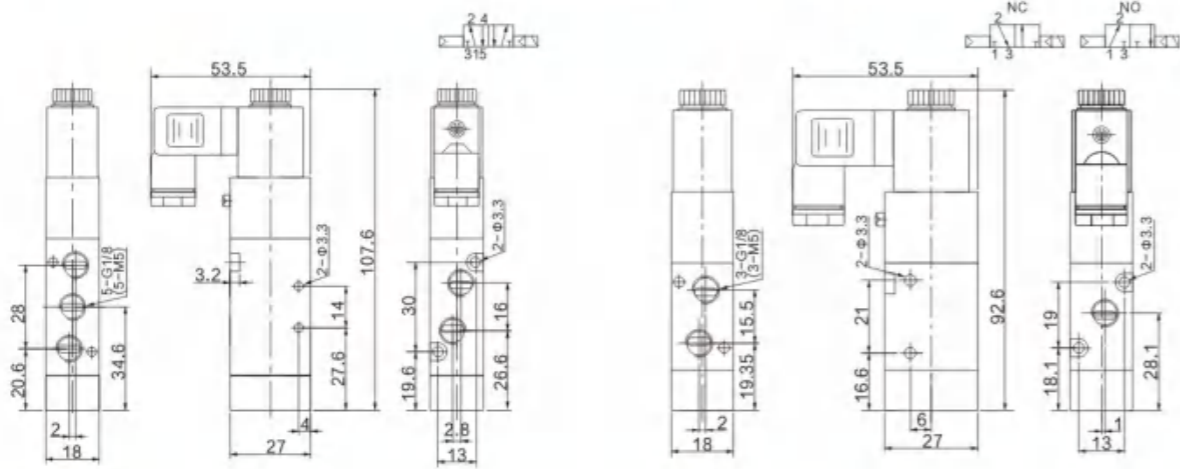
### ●规格 Specification

型号 Model	4V110-L-M5 4V120-L-M5	4V130C-L-M5/4V130E-L-M5 4V130P-L-M5	4V110-L-06 4V120-L-06	4V130C-L-06/4V130E-L-06 4V130P-L-06
位通数 Position and Way No.	二位五通 Two-position Five-way	三位五通 Three-position Five-way	二位五通 Two-position Five-way	三位五通 Three-position Five-way
有效截面积 Effective section area	10mm <sup>2</sup> (CV=0.56)	7mm <sup>2</sup> (CV=0.40)	12mm <sup>2</sup> (CV=0.67)	9mm <sup>2</sup> (CV=0.5)
型号 Model	3V110-L-M5/3V120-L-M5		3V110-L-06/3V120-L-06	
位通数 Position and Way No.	二位三通/Two-position Three-way		二位三通/Two-position Three-way	
有效截面积 Effective section area	10mm <sup>2</sup> (CV=0.56)		12mm <sup>2</sup> (CV=0.67)	
接管口径 Port Size	进气=出气=排气=M5 × 0.8 Air Inlet=Air Outlet=Exhaust=M5 × 0.8		进气=出气=排气=G1/8" Air Inlet=Air Outlet=Exhaust=G1/8"	
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air			
动作方式 Motion Pattern	内部先导式/Inner Guide Type			
使用压力 Working Pressure	0.15-0.8MPa			
最大耐压力 Max. pressure Resistance	1.2MPa			
工作温度 Voltage Range	-5-60°C			
电压范围 Power Consumption	-15% ± 10%			
耗电量 Power Consumption	AC:2.5VA DC:2.5W			
绝缘性及防护等级 Insulation & Protection Class	F级, IP65/F Class, Ip65			
接线形式 Wiring Form	出线式或端子式/Lead Wire or Connector Type			
最高动作频率 Highest Action Frequency	每秒五次/5 Cycle/Sec			
最短励磁时间 Shortest Excitation Time	0.05秒/0.05 Second			
寿命 Life	2000万次/30Million			

### ●外形尺寸 Overall Dimension

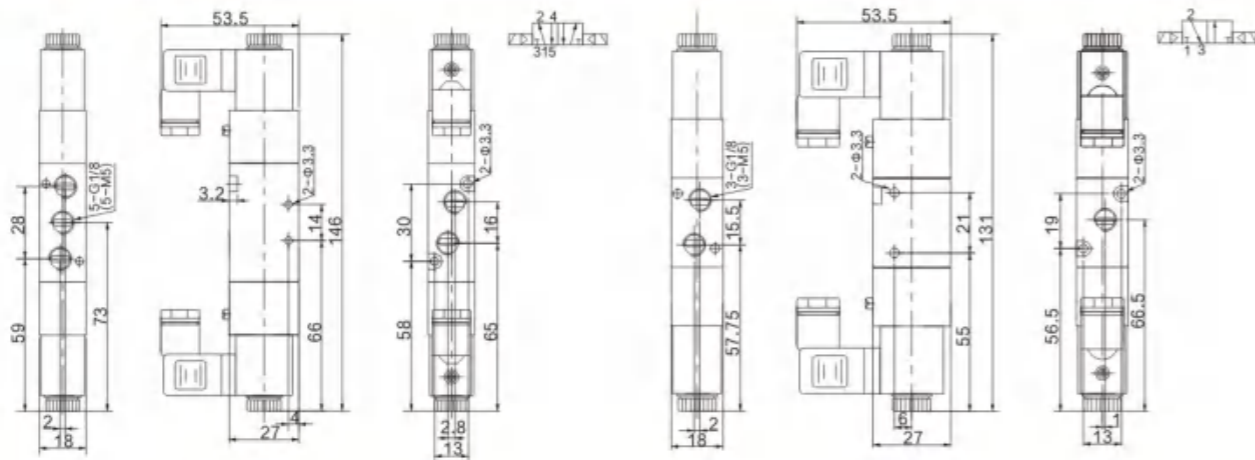
4V110-L-06(M5)

3V110-L-06(M5)

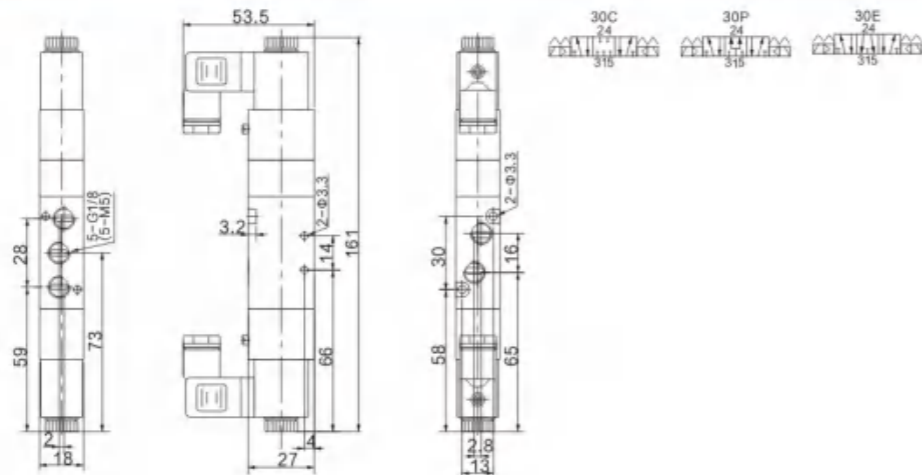


4V120-L-06(M5)

3V120-L-06(M5)



4V130-L-06(M5)



4V220-L-08

### ●订购码 Ordering Code

4V	2	10	L	08	DC24V	□
<b>规格代码</b> Specification Code	<b>系列代码</b> Series Code	<b>线圈及位数</b> Coil and Places	<b>新款系列</b> New Series	<b>接管口径</b> Port Size	<b>标准电压</b> Standard Voltage	<b>接线形式</b> Wiring Form
4V:二(三)位五通电磁阀 3V:二位三通电磁阀 4V:Two(Three)-position Five-way Solenoid Valve 3V:Two-position Three-way Solenoid Valve	200系列 200 Series	10:单头双位置 20:双头双位置 30C:双头三位位置封闭型 30E:双头三位位置排气型 30P:双头三位位置压力型 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type		06:G1/8" 08:G1/4"	DC12V DC24V AC110V AC220V	空白:标准端子式 W:引线式+指示灯 Blank:Standard Connector W:Lead Wire Type

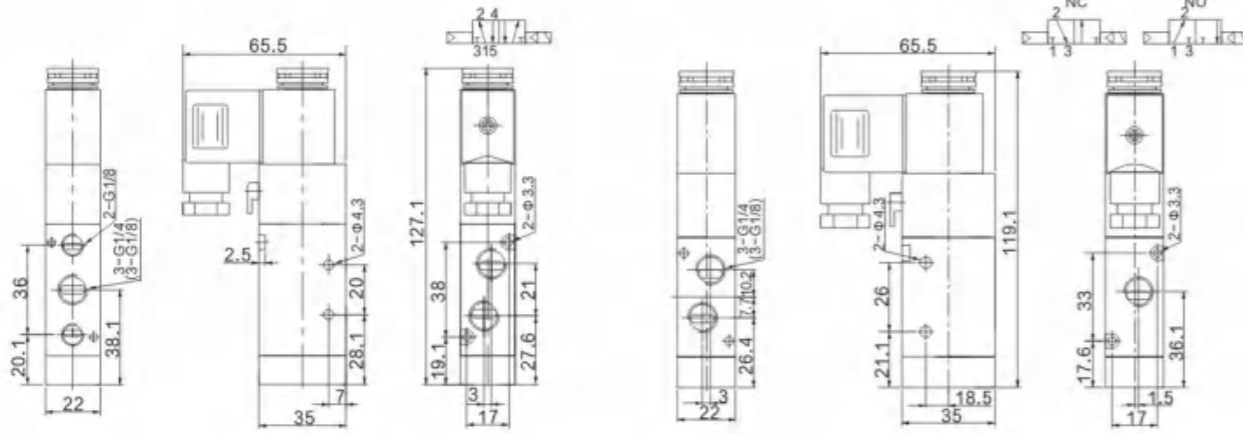
### ●规格 Specification

型号 Model	4V210-L-06/4V220-L-06	4V230C-L-06/4V230E-L-06/4V230P-L-06	4V210-L-08/4V220-L-08	4V230C-L-08/4V230E-L-08/4V230P-L-08
位通数 Position and Way No.	二位五通 Two-position Five-way	三位五通 Three-position Five-way	二位五通 Two-position Five-way	三位五通 Three-position Five-way
有效截面积 Effective section area	14mm <sup>2</sup> (CV=0.78)	12mm <sup>2</sup> (CV=0.67)	16mm <sup>2</sup> (CV=0.89)	12mm <sup>2</sup> (CV=0.67)
型号 Model	3V210-L-06/3V220-L-06		3V210-L-08/3V220-L-08	
位通数 Position and Way No.	二位三通/Two-position Three-way		二位三通/Two-position Three-way	
有效截面积 Effective section area	14mm <sup>2</sup> (CV=0.78)		16mm <sup>2</sup> (CV=0.89)	
接管口径 Port Size	进气=出气=排气=G1/8" Air Inlet=Air Outlet=Exhaust=G1/8"		进气=出气=G1/4" 排气=G1/8" Air Inlet=Air Outlet=G1/4" Exhaust=G1/8"	
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air			
动作方式 Motion Pattern	内部先导式/Inner Guide Type			
使用压力 Working Pressure	0.15-0.8MPa			
最大耐压力 Max.pressure Resistance	1.2MPa			
工作温度 Voltage Range	-5-60°C			
电压范围 Power Consumption	-15%~+10%			
耗电量 Power Consumption	AC:5.5VA DC:3W/4.8W			
绝缘性及防护等级 Insulation & Protection Class	F级. IP65/F Class. IP65			
接线形式 Wiring Form	出线式或端子式/Lead Wire or Connector Type			
最高动作频率 Highest Action Frequency	每秒五次/5 Cycle/Sec			
最短励磁时间 Shortest Excitation Time	0.05秒/0.05 Second			
寿命 Life	2000万次/20Million			

### ●外形尺寸 Overall Dimension

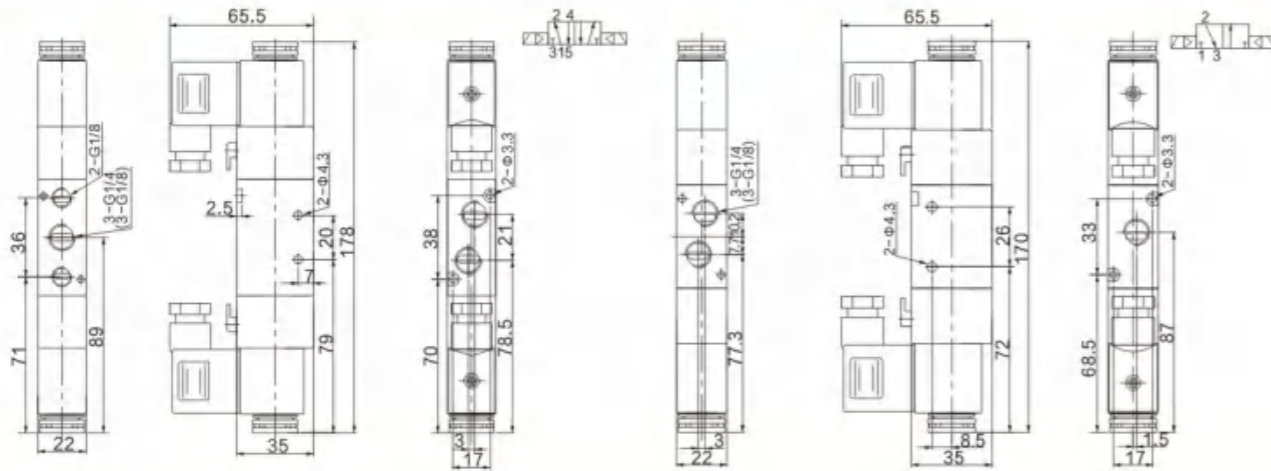
4V210-L-08(06)

3V210-L-08(06)

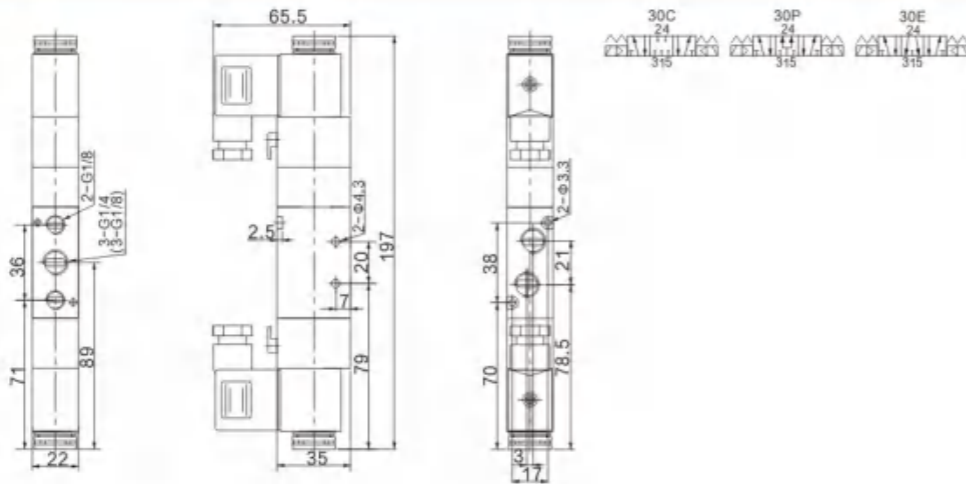


4V220-L-08(06)

3V220-L-08(06)



4V230-L-08(06)



### ●订购码 Ordering Code

4V	3	10	L	10	DC24V	□
<b>规格代码</b> Specification Code	<b>系列代码</b> Series Code	<b>线圈及位数</b> Coil and Places	<b>新款系列</b> New Series	<b>接管口径</b> Port Size	<b>标准电压</b> Standard Voltage	<b>接线形式</b> Wiring Form
4V:二(三)位五通电磁阀 3V:二位三通电磁阀 4V:Two(Three)-position Five-way Solenoid Valve 3V:Two-position Three-way Solenoid Valve	300系列 300 Series	10:单头双位置 20:双头双位置 30C:双头三位置封闭型 30E:双头三位置排气型 30P:双头三位置压力型 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type		08:G1/4" 10:G3/8"	DC12V DC24V AC110V AC220V	空白:标准端子式 W:引线式+指示灯 Blank:Standard Connector W:Lead Wire Type

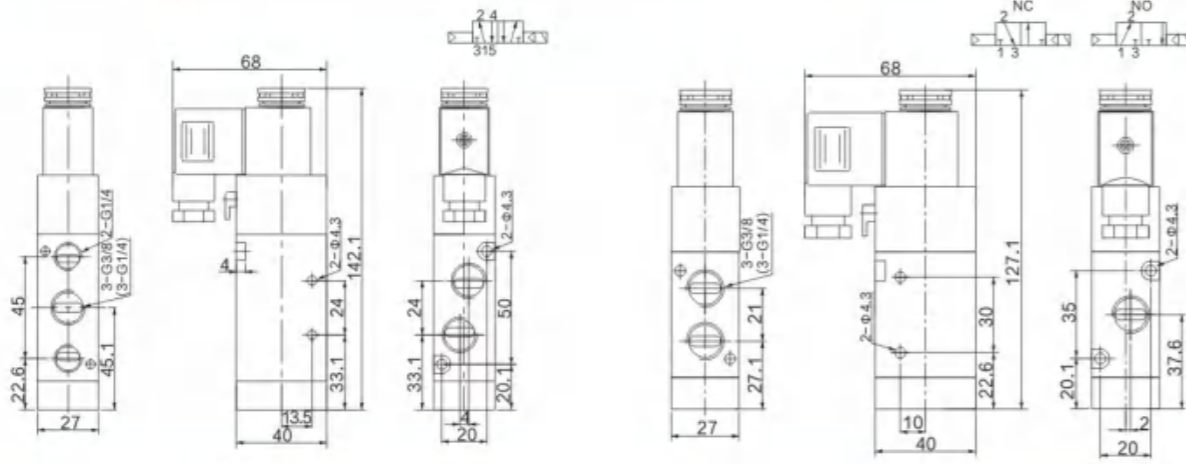
### ●规格 Specification

型号 Model	4V310-L-08/4V320-L-08	4V330C-L-08/4V330E-L-08/4V330P-L-08	4V310-L-10/4V320-L-10	4V330C-L-10/4V330E-L-10/4V330P-L-10
位通数 Position and Way No.	二位五通 Two-position Five-way	三位五通 Three-position Five-way	二位五通 Two-position Five-way	三位五通 Three-position Five-way
有效截面积 Effective section area	25mm <sup>2</sup> (CV=1.40)	18mm <sup>2</sup> (CV=1.00)	30mm <sup>2</sup> (CV=1.68)	18mm <sup>2</sup> (CV=1.00)
型号 Model	3V310-L-08/3V320-L-08		3V310-L-10/3V320-L-10	
位通数 Position and Way No.	二位三通/Two-position Three-way		二位三通/Two-position Three-way	
有效截面积 Effective section area	25mm <sup>2</sup> (CV=1.40)		30mm <sup>2</sup> (CV=1.68)	
接管口径 Port Size	进气=排气=排气=G1/4" Air Inlet=Air Outlet=Exhaust=G1/4"		进气=排气=G3/8" 排气=G1/4" Air Inlet=Air Outlet=G3/8" Exhaust=G1/4"	
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air			
动作方式 Motion Pattern	内部先导式/Inner Guide Type			
使用压力 Working Pressure	0.15-0.8MPa			
最大耐压力 Max.pressure Resistance	1.2MPa			
工作温度 Voltage Range	-5-60°C			
电压范围 Power Consumption	-15%~+10%			
耗电量 Power Consumption	AC:5.5VA DC:3W/4.8W			
绝缘性及防护等级 Insulation & Protection Class	F级. IP65/F Class. IP65			
接线形式 Wiring Form	出线式或端子式/Lead Wire or Connector Type			
最高动作频率 Highest Action Frequency	每秒五次/5 Cycle/Sec			
最短励磁时间 Shortest Excitation Time	0.05秒/0.05 Second			
寿命 Life	2000万次/20Million			

### ●外形尺寸 Overall Dimension

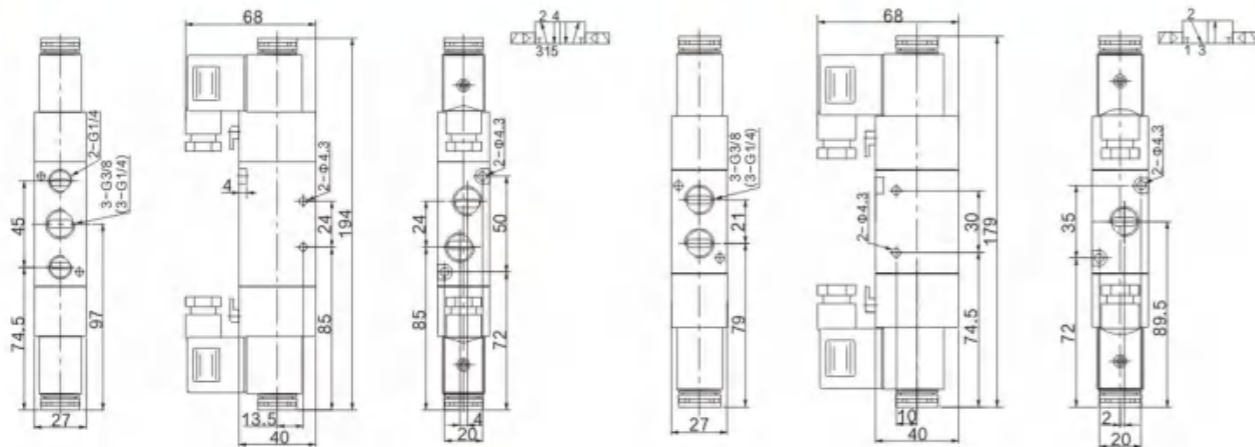
4V310-L-10(08)

3V310-L-10(08)

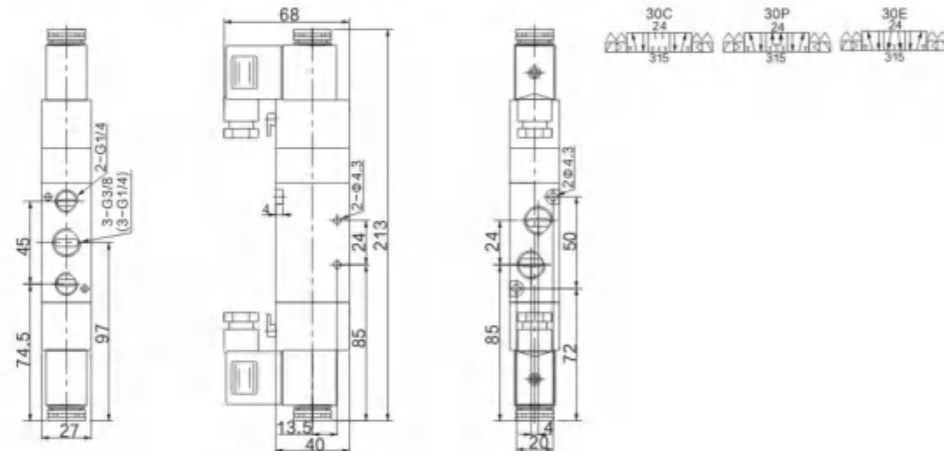


4V320-L-10(08)

3V320-L-10(08)



4V330-L-10(08)



4V420-L-15

### ●订购码 Ordering Code

4V	4	10	L	15	DC24V	□
<b>规格代码</b> Specification Code	<b>系列代码</b> Series Code	<b>线圈及位数</b> Coil and Places	<b>新款系列</b> New Series	<b>接管口径</b> Port Size	<b>标准电压</b> Standard Voltage	<b>接线形式</b> Wiring Form
4V:二(三)位五通电磁阀 3V:二位三通电磁阀 4V:Two(Three)-position Five-way Solenoid Valve 3V:Two-position Three-way Solenoid Valve	400系列 400 Series	10:单头双位置 20:双头双位置 30C:双头三位置封闭型 30E:双头三位置排气型 30P:双头三位置压力型 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type		15:G1/2"	DC12V DC24V AC24V AC110V AC220V	空白:标准端子式 W:引线式+指示灯 Blank:Standard Connector W:Lead Wire Type

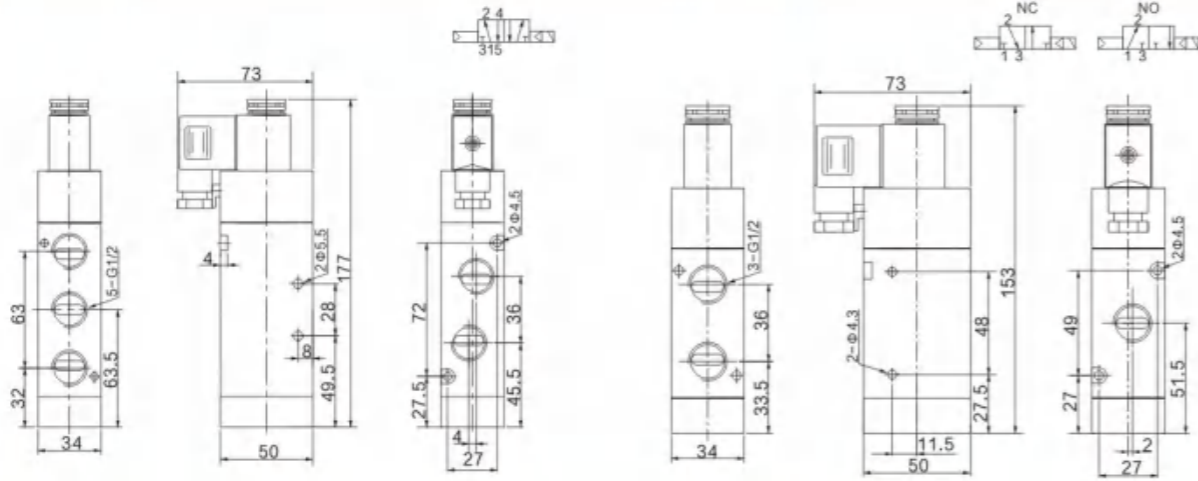
### ●规格 Specification

型号 Model	4V410-L-15/4V420-L-15	4V430C-L-15/4V430E-L-15 4V430P-L-15
位通数 Position and Way No.	二位五通 Two-position Five-way	三位五通 Three-position Five-way
有效截面积 Effective section area	50mm <sup>2</sup> (CV=2.79)	30mm <sup>2</sup> (CV=1.68)
型号 Model	3V410-L-15/3V420-L-15	
位通数 Position and Way No.	二位三通/Two-position Three-way	
有效截面积 Effective section area	50mm <sup>2</sup> (CV=2.79)	
接管口径 Port Size	进气=出气=排气=G1/2"/Air Inlet=Air Outlet=Exhaust=G1/2"	
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air	
动作方式 Motion Pattern	内部先导式/Inner Guide Type	
使用压力 Working Pressure	0.15-0.8MPa	
最大耐压力 Max.pressure Resistance	1.2MPa	
工作温度 Voltage Range	-5-60°C	
电压范围 Power Consumption	-15%~+10%	
耗电量 Power Consumption	AC:5.5VA DC:3W/4.8W	
绝缘性及防护等级 Insulation & Protection Class	F级, IP65/F Class, IP65	
接线形式 Wiring Form	出线式或端子式/Lead Wire or Connector Type	
最高动作频率 Highest Action Frequency	每秒五次/5 Cycle/Sec	
最短励磁时间 Shortest Excitation Time	0.05秒/0.05 Second	
寿命 Life	2000万次/20Million	

### ●外形尺寸 Overall Dimension

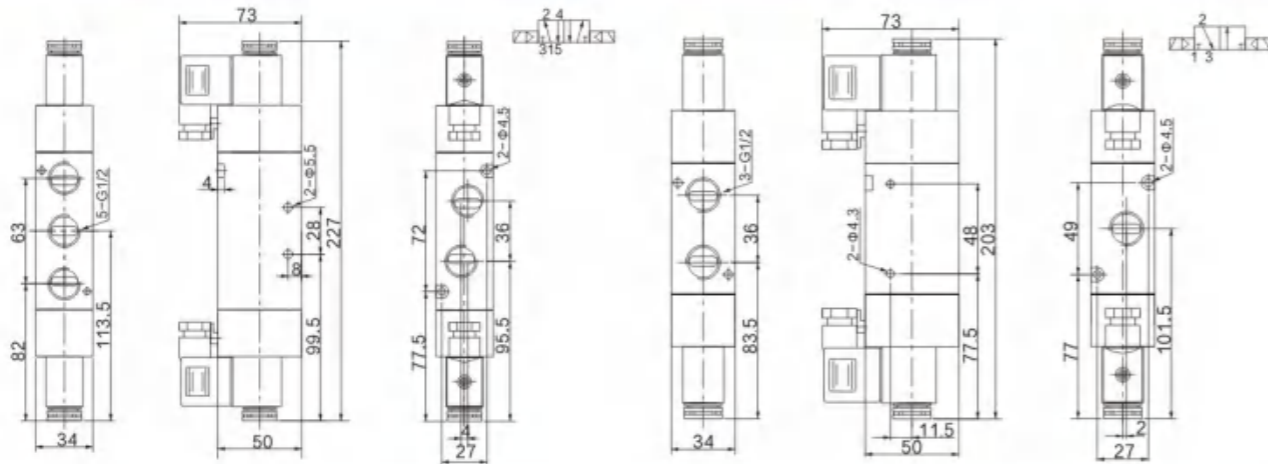
4V410-L-15

3V410-L-15

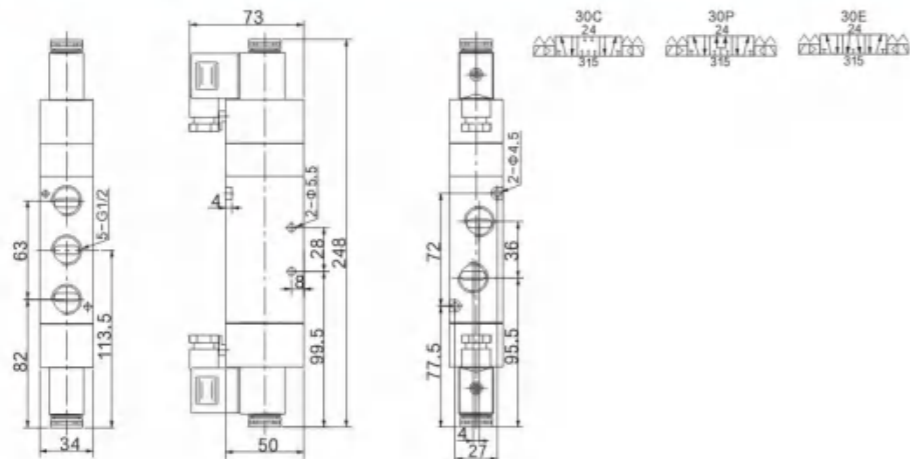


4V420-L-15

3V420-L-15



4V430-L-15



4M210-L-08

### ●订购码 Ordering Code

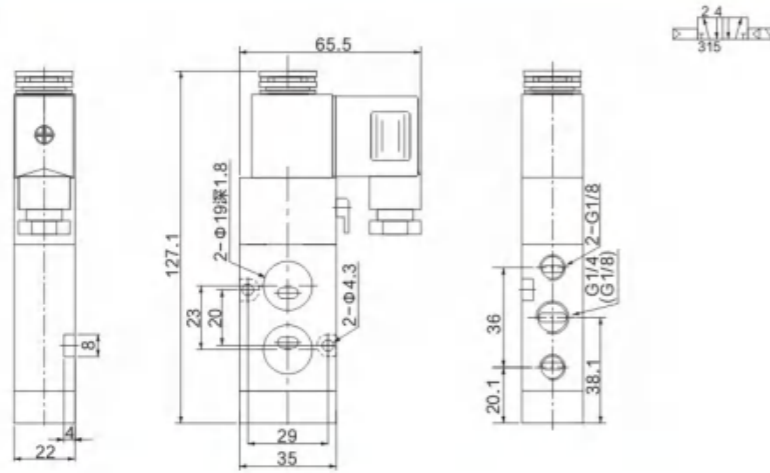
4M	2	10	L	08	DC24V	□
<b>规格代码</b> Specification Code	<b>系列代码</b> Series Code	<b>线圈及位数</b> Coil and Places	<b>新款系列</b> New Series	<b>接管口径</b> Port Size	<b>标准电压</b> Standard Voltage	<b>接线形式</b> Wiring Form
4M:二(三)位五通纳摩阀 4M:Two(Three)-position Five-way Namur Valve	200系列 200 Series	10:单头双位置 20:双头双位置 30C:双头三位置封闭型 30E:双头三位置排气型 30P:双头三位置压力型 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type		06:G1/8" 08:G1/4"	DC12V DC24V AC110V AC220V	空白:标准端子式 W:引线式+指示灯 Blank:Standard Connector W:Lead Wire Type

### ●规格 Specification

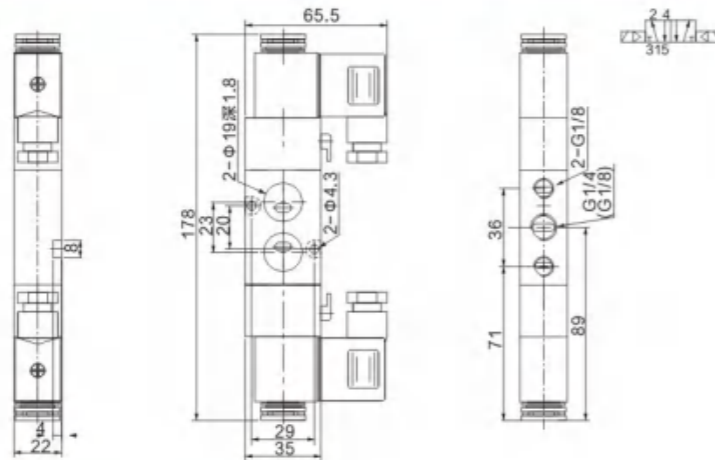
型号 Model	4M210-L-06/4M220-L-06	4M230C-L-06/4M230E-L-06 4M230P-L-06	4M210-L-08/4M220-L-08	4M230C-L-08/4M230E-L-08 4M230P-L-08
位通数 Position and Way No.	二位五通 Two-position Five-way	三位五通 Three-position Five-way	二位五通 Two-position Five-way	三位五通 Three-position Five-way
有效截面积 Effective section area	14mm <sup>2</sup> (CV=0.78)	12mm <sup>2</sup> (CV=0.67)	16mm <sup>2</sup> (CV=0.89)	12mm <sup>2</sup> (CV=0.67)
接管口径 Port Size	进气=排气=G1/8" Air Inlet=Exhaust=G1/8"		进气=G1/4" 排气=G1/8" Air Inlet=G1/4" Exhaust=G1/8"	
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air			
动作方式 Motion Pattern	内部先导式/Inner Guide Type			
使用压力 Working Pressure	0.15-0.8MPa			
最大耐压力 Max.pressure Resistance	1.2MPa			
工作温度 Voltage Range	-5-60°C			
电压范围 Power Consumption	-15%~+10%			
耗电量 Power Consumption	AC:5.5VA DC:3W/4.8W			
绝缘性及防护等级 Insulation & Protection Class	F级. IP65/F Class. IP65			
接线形式 Wiring Form	出线式或端子式/Lead Wire or Connector Type			
最高动作频率 Highest Action Frequency	每秒五次/5 Cycle/Sec			
最短励磁时间 Shortest Excitation Time	0.05秒/0.05 Second			
寿命 Life	2000万次/20Million			

### ●外形尺寸 Overall Dimension

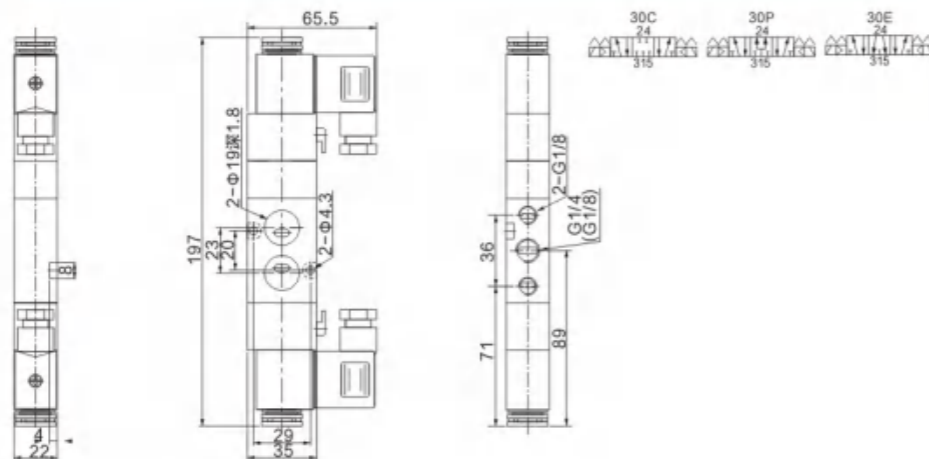
4M210-L-08(06)



4M220-L-08(06)



4M230-L-08(06)



4M310-L-10

### ●订购码 Ordering Code

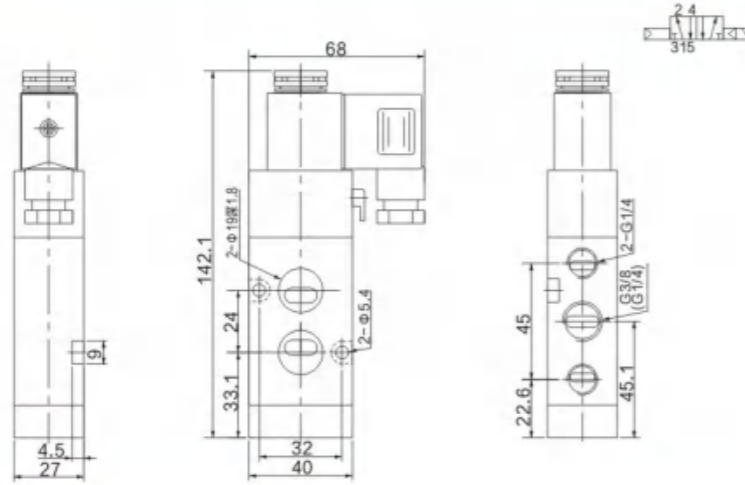
4M	3	10	L	10	DC24V	□
<b>规格代码</b> Specification Code	<b>系列代码</b> Series Code	<b>线圈及位数</b> Coil and Places	<b>新款系列</b> New Series	<b>接管口径</b> Port Size	<b>标准电压</b> Standard Voltage	<b>接线形式</b> Wiring Form
4M:二(三)位五通纳摩阀 4M:Two(Three)-position Five-way Namur Valve	300系列 300 Series	10:单头双位置 20:双头双位置 30C:双头三位置封闭型 30E:双头三位置排气型 30P:双头三位置压力型 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type		08:G1/4" 10:G3/8"	DC12V DC24V AC110V AC220V	空白: 标准端子式 W:引线式+指示灯 Blank:Standard Connector W:Lead Wire Type

### ●规格 Specification

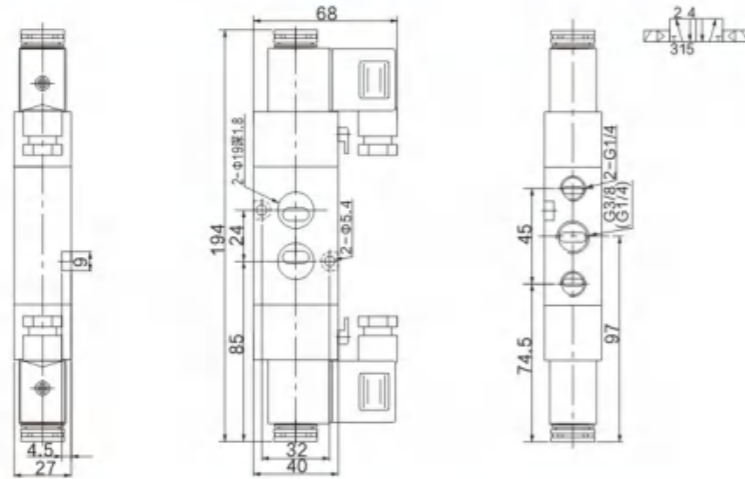
型号 Model	4M310-L-08/4M320-L-08	4M330C-L-08/4M330E-L-08 4M330P-L-08	4M310-L-10/4M320-L-10	4M330C-L-10/4M330E-L-10 4M330P-L-10
位通数 Position and Way No.	二位五通 Two-position Five-way	三位五通 Three-position Five-way	二位五通 Two-position Five-way	三位五通 Three-position Five-way
有效截面积 Effective section area	25mm <sup>2</sup> (CV=1.40)	18mm <sup>2</sup> (CV=1.00)	30mm <sup>2</sup> (CV=1.68)	18mm <sup>2</sup> (CV=1.00)
接管口径 Port Size	进气=排气=G1/4" Air Inlet=Exhaust=G1/4"		进气=G3/8" 排气=G1/4" Air Inlet=G3/8" Exhaust=G1/4"	
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air			
动作方式 Motion Pattern	内部先导式/Inner Guide Type			
使用压力 Working Pressure	0.15~0.8MPa			
最大耐压力 Max.pressure Resistance	1.2MPa			
工作温度 Voltage Range	-5~60°C			
电压范围 Power Consumption	-15%~+10%			
耗电量 Power Consumption	AC:5.5VA DC:3W/4.8W			
绝缘性及防护等级 Insulation & Protection Class	F级. IP65/F Class. IP65			
接线形式 Wiring Form	出线式或端子式/Lead Wire or Connector Type			
最高动作频率 Highest Action Frequency	每秒五次/5 Cycle/Sec			
最短励磁时间 Shortest Excitation Time	0.05秒/0.05 Second			
寿命 Life	2000万次/20Million			

### ●外形尺寸 Overall Dimension

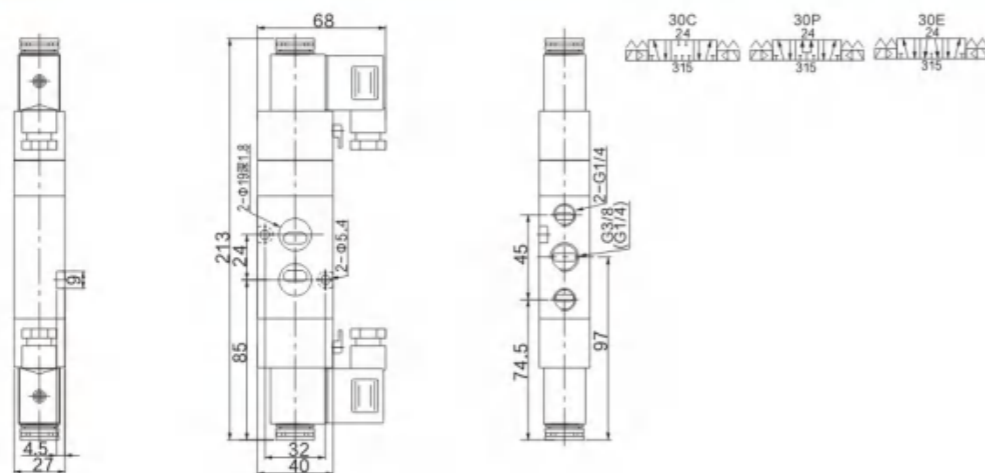
4M310-L-10(08)



4M320-L-10(08)



4M330-L-10(08)



4M420-L-15

### ●订购码 Ordering Code

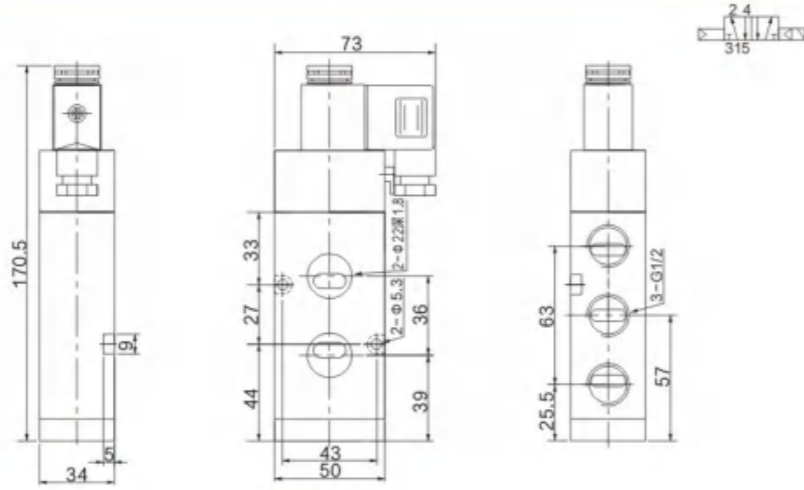
4M	4	10	L	15	DC24V	□
<b>规格代码</b> Specification Code	<b>系列代码</b> Series Code	<b>线圈及位数</b> Coil and Places	<b>新款系列</b> New Series	<b>接管口径</b> Port Size	<b>标准电压</b> Standard Voltage	<b>接线形式</b> Wiring Form
4M:二(三)位五通纳摩阀 4M:Two(Three)-position Five-way Namur Valve	400系列 400 Series	10:单头双位置 20:双头双位置 30C:双头三位置封闭型 30E:双头三位置排气型 30P:双头三位置压力型 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type		15:G1/2"	DC12V DC24V AC24V AC110V AC220V	空白:标准端子式 W:引线式+指示灯 Blank:Standard Connector W:Lead Wire Type

### ●规格 Specification

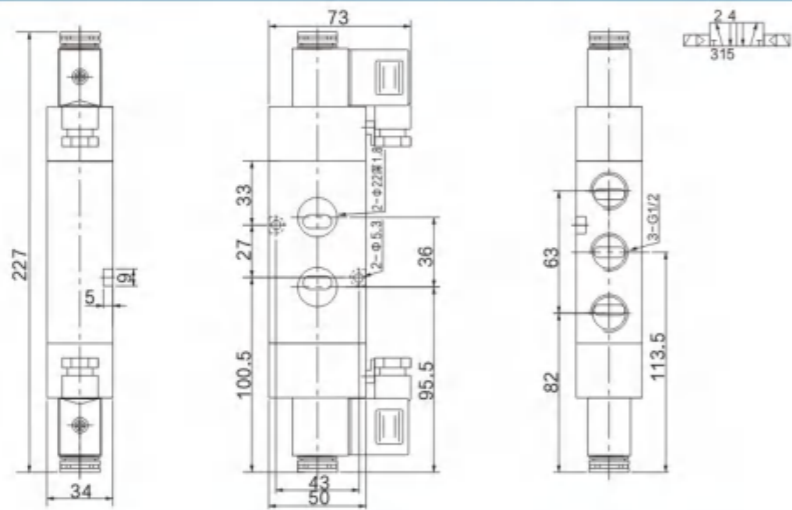
型号 Model	4M410-L-15/4M420-L-15	4M430C-L-15/4M430E-L-15/4M430P-L-15
位通数 Position and Way No.	二位五通 Two-position Five-way	三位五通 Three-position Five-way
有效截面积 Effective section area	50mm <sup>2</sup> (CV=2.79)	30mm <sup>2</sup> (CV=1.68)
接管口径 Port Size	进气=排气=G1/2"/Air Inlet=Exhaust=G1/2"	
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air	
动作方式 Motion Pattern	内部先导式/Inner Guide Type	
使用压力 Working Pressure	0.15-0.8MPa	
最大耐压力 Max.pressure Resistance	1.2MPa	
工作温度 Voltage Range	-5~60°C	
电压范围 Power Consumption	-15%~+10%	
耗电量 Power Consumption	AC:5.5VA DC:3W/4.8W	
绝缘性及防护等级 Insulation & Protection Class	F级. IP65/F Class. IP65	
接线形式 Wiring Form	出线式或端子式/Lead Wire or Connector Type	
最高动作频率 Highest Action Frequency	每秒五次/5 Cycle/Sec	
最短励磁时间 Shortest Excitation Time	0.05秒/0.05 Second	
寿命 Life	2000万次/20Million	

### ●外形尺寸 Overall Dimension

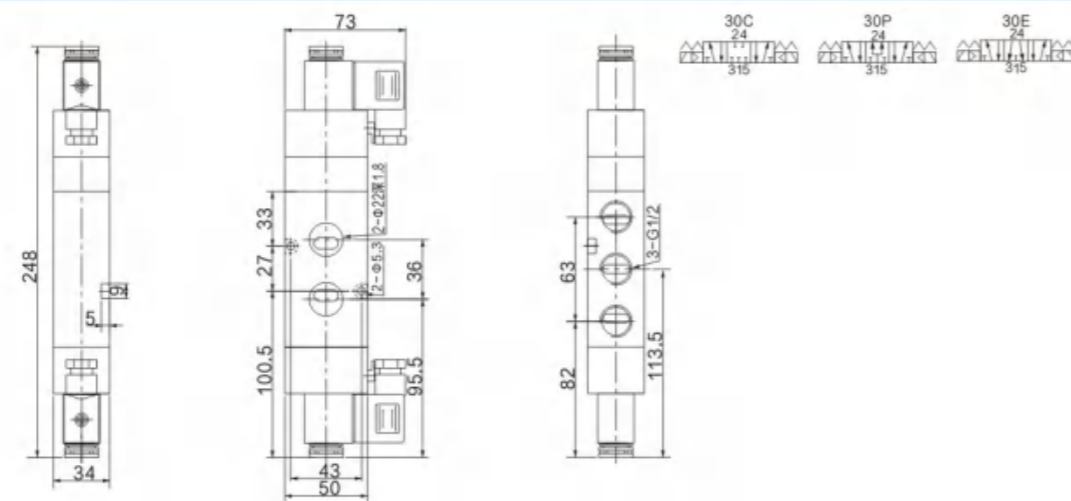
4M410-L-15



4M420-L-15



4M430-L-15



4A110-L-06

### ●订购码 Ordering Code

4A	1	10	L	06
<b>规格代码</b> Specification Code	<b>系列代码</b> Series Code	<b>线圈及位数</b> Coil and Places	<b>新款系列</b> New Series	<b>接管口径</b> Port Size
4A:二(三)位五通气控阀 3A:二位三通气控阀 4A:Two(Three)-position Five-way Pneumatic Control Valve 3A:Two-position Three- way Pneumatic Control Valve	100系列 100 Series	10:单头双位置 20:双头双位置 30C:双头三位封闭型 30E:双头三位排气型 30P:双头三位压力型 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type		M5:M5 × 0.8 06:G1/8"

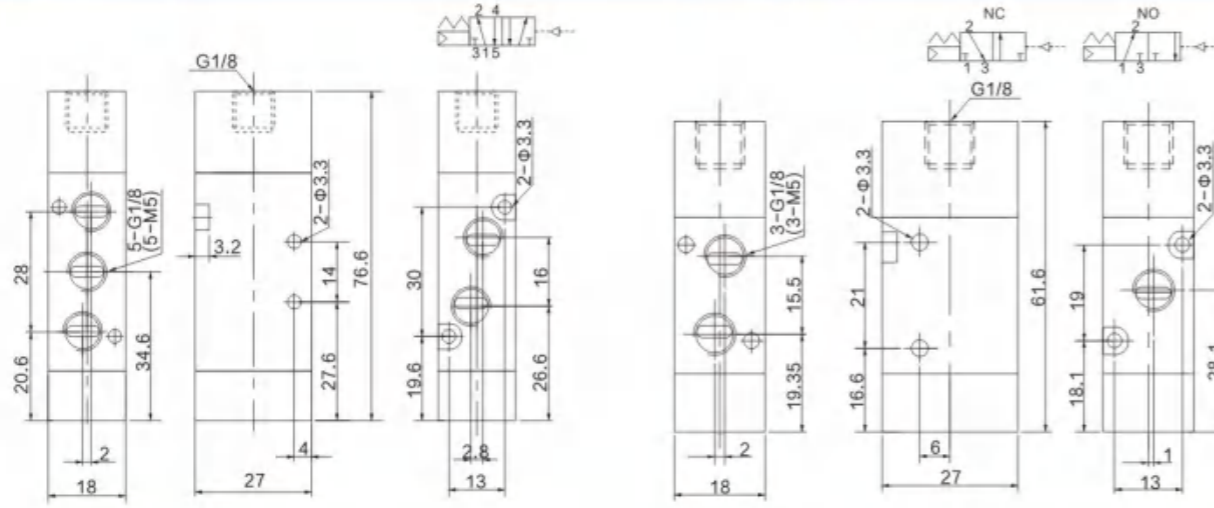
### ●规格 Specification

型号 Model	4A110-L-M5 4A120-L-M5	4A130C-L-M5/4A130E-L-M5 4A130P-L-M5	4A110-L-06 4A120-L-06	4A130C-L-06/4A130E-L-06 4A130P-L-06
位通数 Position and Way No.	二位五通 Two-position Five-way	三位五通 Three-position Five-way	二位五通 Two-position Five-way	三位五通 Three-position Five-way
有效截面积 Effective section area	10mm <sup>2</sup> (CV=0.56)	7mm <sup>2</sup> (CV=0.40)	12mm <sup>2</sup> (CV=0.67)	9mm <sup>2</sup> (CV=0.5)
型号 Model	3A110-L-M5/3A120-L-M5		3A110-L-06/3A120-L-06	
位通数 Position and Way No.	二位三通/Two-position Three-way		二位三通/Two-position Three-way	
有效截面积 Effective section area	10mm <sup>2</sup> (CV=0.56)		12mm <sup>2</sup> (CV=0.67)	
接管口径 Port Size	进气=出气=排气=M5 × 0.8 Air Inlet=Air Outlet=Exhaust=M5 × 0.8		进气=出气=排气=G1/8" Air Inlet=Air Outlet=Exhaust=G1/8"	
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air			
动作方式 Motion Pattern	外部气控式/External pneumatic actuation			
使用压力 Working Pressure	0.15-0.8MPa			
最大耐压力 Max.pressure Resistance	1.2MPa			
工作温度 Voltage Range	-5-60°C			
最高动作频率 Highest Action Frequency	每秒五次/5 Cycle/Sec			
寿命 Life	2000万次/20Million			

### ● 外形尺寸 Overall Dimension

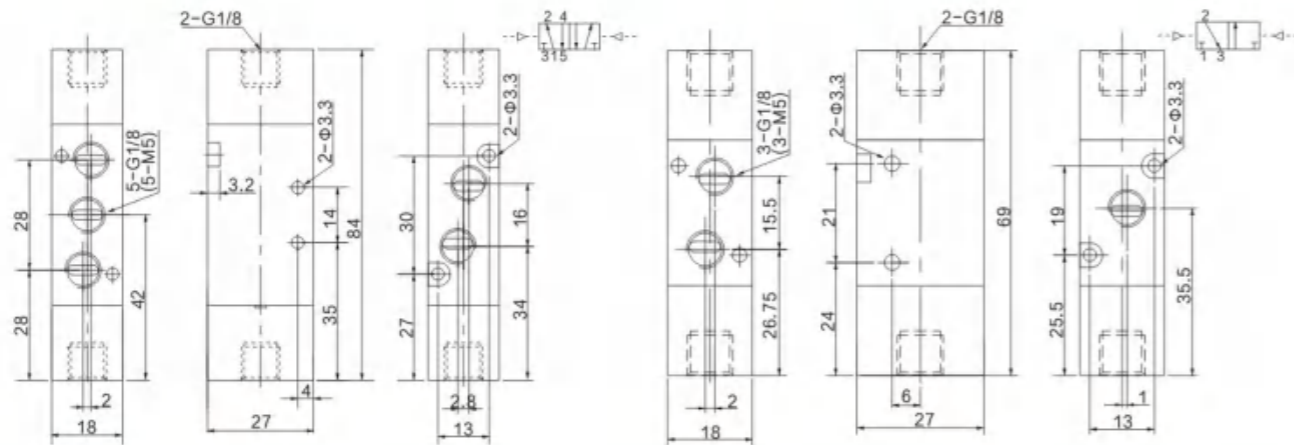
4A110-L-06(M5)

3A110-L-06(M5)

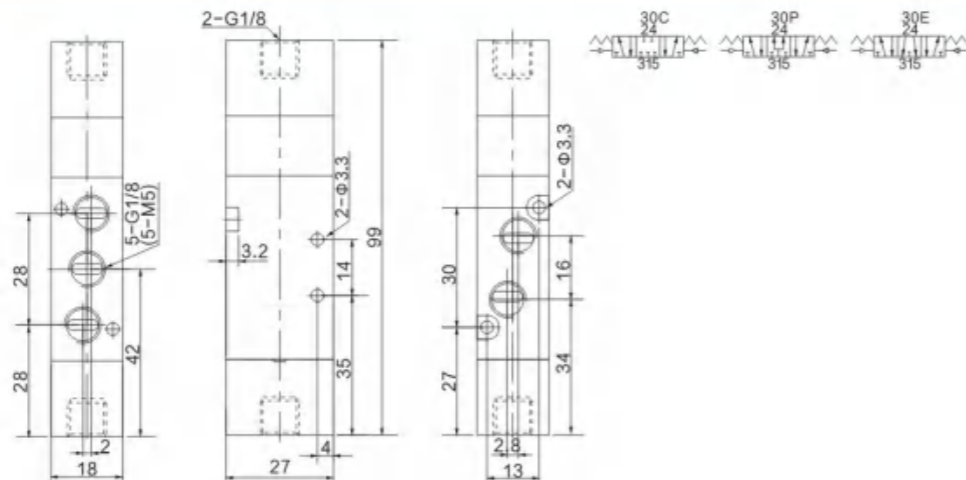


4A120-L-06(M5)

3A120-L-06(M5)



4A130-L-06(M5)



4A210-L-08

### ● 订购码 Ordering Code

4A	2	10	L	08
<b>规格代码</b> Specification Code	<b>系列代码</b> Series Code	<b>线圈及位数</b> Coil and Places	<b>新款系列</b> New Series	<b>接管口径</b> Port Size
4A:二(三)位五通气控阀 3A:二位三通气控阀 4A:Two(Three)-position Five-way Pneumatic Control Valve 3A:Two-position Three- way Pneumatic Control Valve	200系列 200 Series	10:单头双位置 20:双头双位置 30C:双头三位置封闭型 30E:双头三位置排气型 30P:双头三位置压力型 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type		06:G1/8" 08:G1/4"

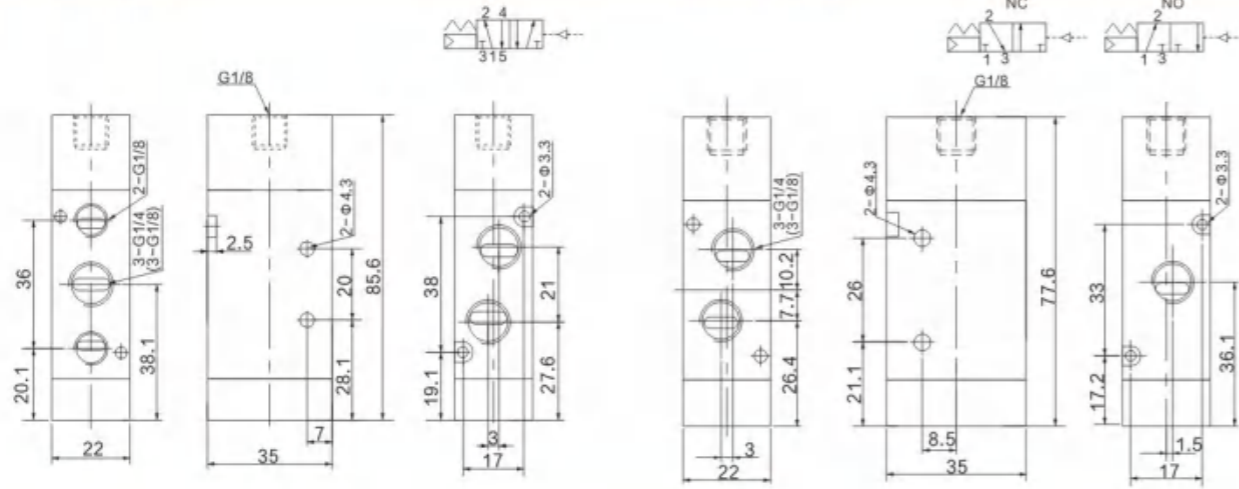
### ● 规格 Specification

型号 Model	4A210-L-06/4A220-L-06	4A230C-L-06/4A230E-L-06 4A230P-L-06	4A210-L-08/4A220-L-08	4A230C-L-08/4A230E-L-08 4A230P-L-08
位通数 Position and Way No.	二位五通 Two-position Five-way	三位五通 Three-position Five-way	二位五通 Two-position Five-way	三位五通 Three-position Five-way
有效截面积 Effective section area	14mm <sup>2</sup> (CV=0.78)	12mm <sup>2</sup> (CV=0.67)	16mm <sup>2</sup> (CV=0.89)	12mm <sup>2</sup> (CV=0.67)
型号 Model	3A210-L-06/3A220-L-06		3A210-L-08/3A220-L-08	
位通数 Position and Way No.	二位三通/Two-position Three-way		二位三通/Two-position Three-way	
有效截面积 Effective section area	14mm <sup>2</sup> (CV=0.78)		16mm <sup>2</sup> (CV=0.89)	
接管口径 Port Size	进气=出气=排气=G1/8" Air Inlet=Air Outlet=Exhaust=G1/8"		进气=出气=G1/4" 排气=G1/8" Air Inlet=Air Outlet=G1/4" Exhaust=G1/8"	
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air			
动作方式 Motion Pattern	外部气控式/External pneumatic actuation			
使用压力 Working Pressure	0.15~0.8MPa			
最大耐压力 Max.pressure Resistance	1.2MPa			
工作温度 Voltage Range	-5~60°C			
最高动作频率 Highest Action Frequency	每秒五次/5 Cycle/Sec			
寿命 Life	2000万次/20Million			

### ● 外形尺寸 Overall Dimension

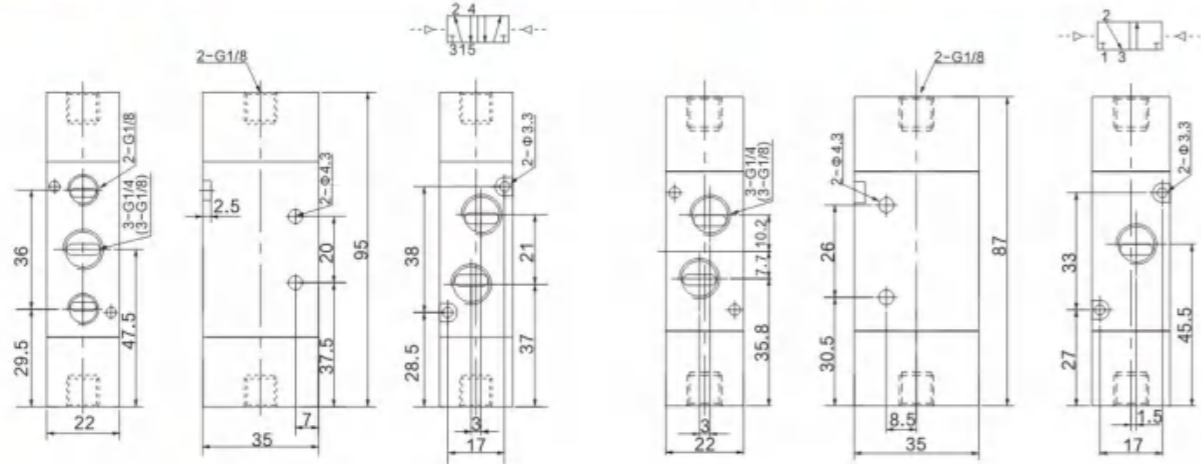
4A210-L-08(06)

3A210-L-08(06)

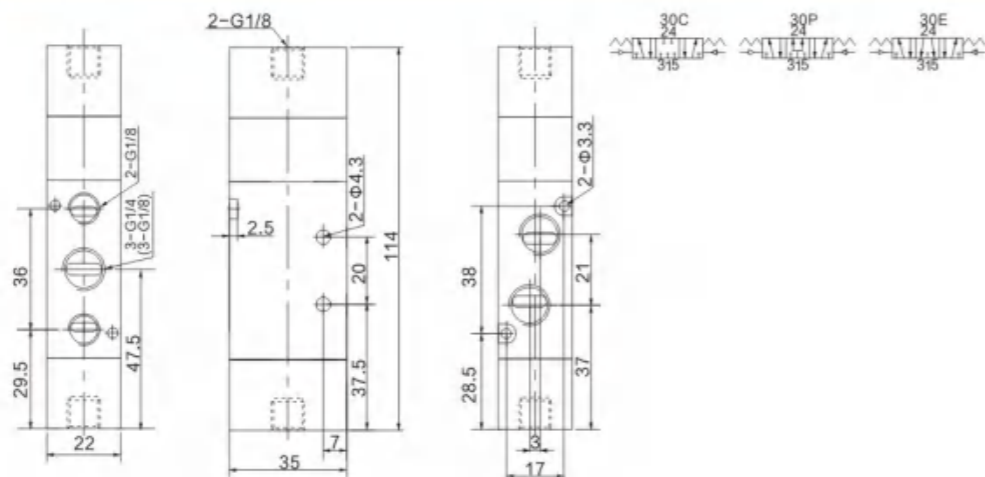


4A220-L-08(06)

3A220-L-08(06)



4A230-L-08(06)



4A310-L-10

### ● 订购码 Ordering Code

4A	3	10	L	10
规格代码 Specification Code	系列代码 Series Code	线圈及位数 Coil and Places	新款系列 New Series	接管口径 Port Size
4A:二(三)位五通气控阀 3A:二位三通气控阀 4A:Two(Three)-position Five-way Pneumatic Control Valve 3A:Two-position Three- way Pneumatic Control Valve	300系列 300 Series	10:单头双位置 20:双头双位置 30C:双头三位封闭型 30E:双头三位排气型 30P:双头三位压力型 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type		08:G1/4" 10:G3/8"

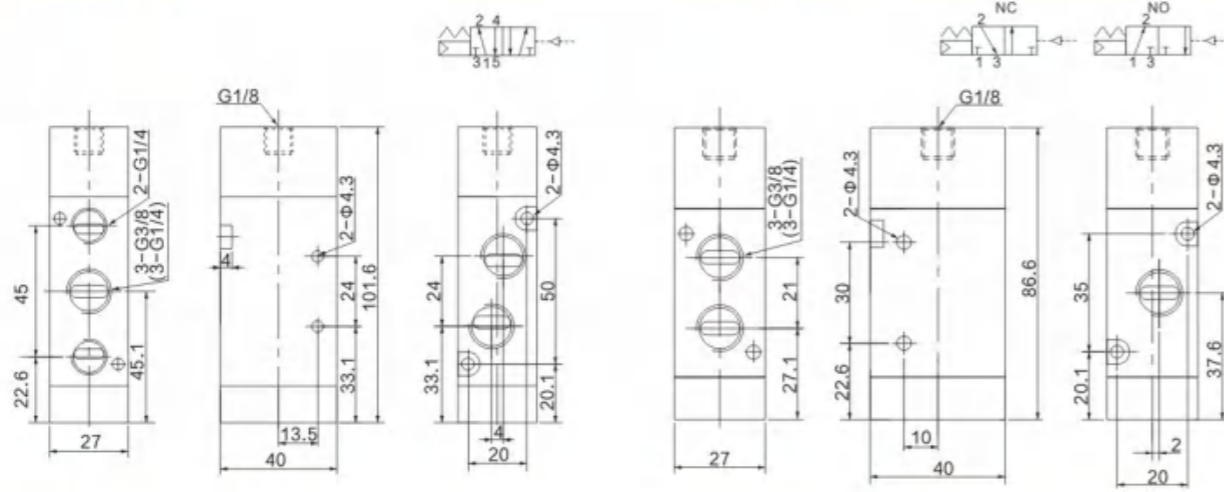
### ● 规格 Specification

型号 Model	4A310-L-08/4A320-L-08	4A330C-L-08/4A330E-L-08 4A330P-L-08	4A310-L-10/4A320-L-10	4A330C-L-10/4A330E-L-10 4A330P-L-10
位通数 Position and Way No.	二位五通 Two-position Five-way	三位五通 Three-position Five-way	二位五通 Two-position Five-way	三位五通 Three-position Five-way
有效截面积 Effective section area	25mm <sup>2</sup> (CV=1.4)	18mm <sup>2</sup> (CV=1.0)	30mm <sup>2</sup> (CV=1.68)	18mm <sup>2</sup> (CV=1.0)
型号 Model	3A310-L-08/3A320-L-08		3A310-L-10/3A320-L-10	
位通数 Position and Way No.	二位三通/Two-position Three-way		二位三通/Two-position Three-way	
有效截面积 Effective section area	25mm <sup>2</sup> (CV=1.4)		30mm <sup>2</sup> (CV=1.68)	
接管口径 Port Size	进气=出气=排气=G1/4" Air Inlet=Air Outlet=Exhaust=G1/4"		进气=出气=G3/8" 排气=G1/4" Air Inlet=Air Outlet=G3/8" Exhaust=G1/4"	
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air			
动作方式 Motion Pattern	外部气控式/External pneumatic actuation			
使用压力 Working Pressure	0.15-0.8MPa			
最大耐压力 Max.pressure Resistance	1.2MPa			
工作温度 Voltage Range	-5-60°C			
最高动作频率 Highest Action Frequency	每秒五次/5 Cycle/Sec			
寿命 Life	2000万次/20Million			

### ● 外形尺寸 Overall Dimension

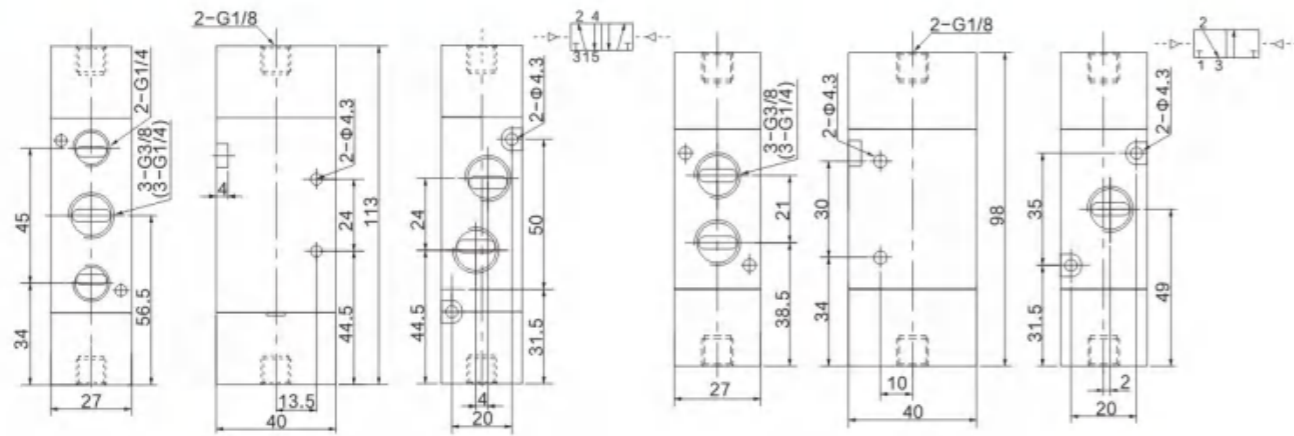
4A310-L-10(08)

3A310-L-10(08)

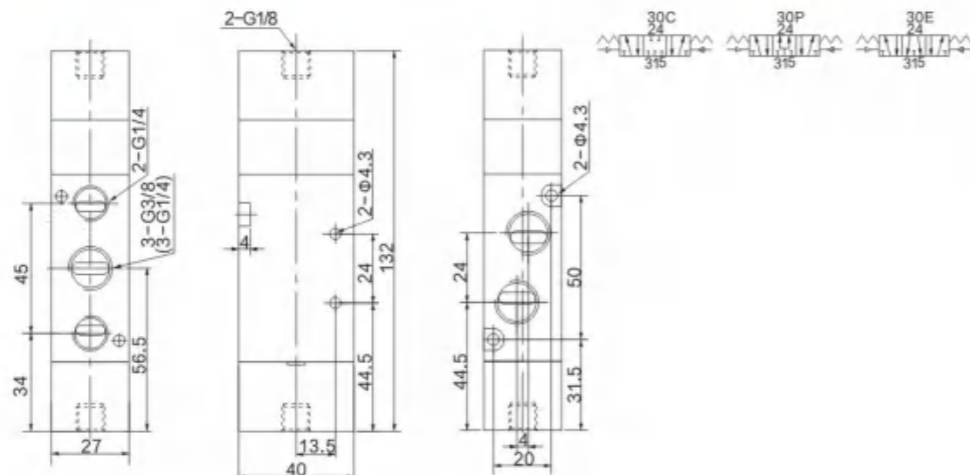


4A320-L-10(08)

3A320-L-10(08)



4A330-L-10(08)



4A410-L-10

### ● 订购码 Ordering Code

4A	4	10	L	15
规格代码 Specification Code	系列代码 Series Code	线圈及位数 Coil and Places	新款系列 New Series	接管口径 Port Size
4A:二(三)位五通气控阀 3A:二位三通气控阀 4A:Two(Three)-position Five-way Pneumatic Control Valve 3A:Two-position Three- way Pneumatic Control Valve	400系列 400 Series	10:单头双位置 20:双头双位置 30C:双头三位置封闭型 30E:双头三位置排气型 30P:双头三位置压力型 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type		15:G1/2"

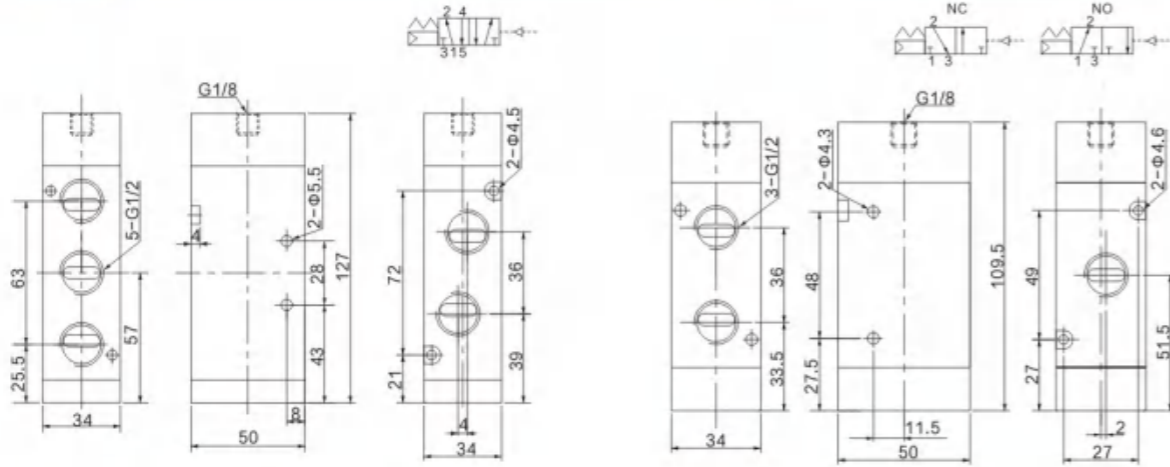
### ● 规格 Specification

型号 Model	4A410-L-15/4A420-L-15	4A430C-L-15/4A430E-L-15 4A430P-L-15
位通数 Position and Way No.	二位五通 Two-position Five-way	三位五通 Three-position Five-way
有效截面积 Effective section area	50mm <sup>2</sup> (CV=2.79)	30mm <sup>2</sup> (CV=1.68)
型号 Model	3A410-L-15/3A420-L-15	
位通数 Position and Way No.	二位三通/Two-position Three-way	
有效截面积 Effective section area	50mm <sup>2</sup> (CV=2.79)	
接管口径 Port Size	进气=出气=排气=G1/2" Air Inlet=Air Outlet=Exhaust=G1/2"	
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air	
动作方式 Motion Pattern	外部气控式/External pneumatic actuation	
使用压力 Working Pressure	0.15-0.8MPa	
最大耐压力 Max.pressure Resistance	1.2MPa	
工作温度 Voltage Range	-5-60°C	
最高动作频率 Highest Action Frequency	每秒五次/5 Cycle/Sec	
寿命 Life	2000万次/20Million	

### ● 外形尺寸 Overall Dimension

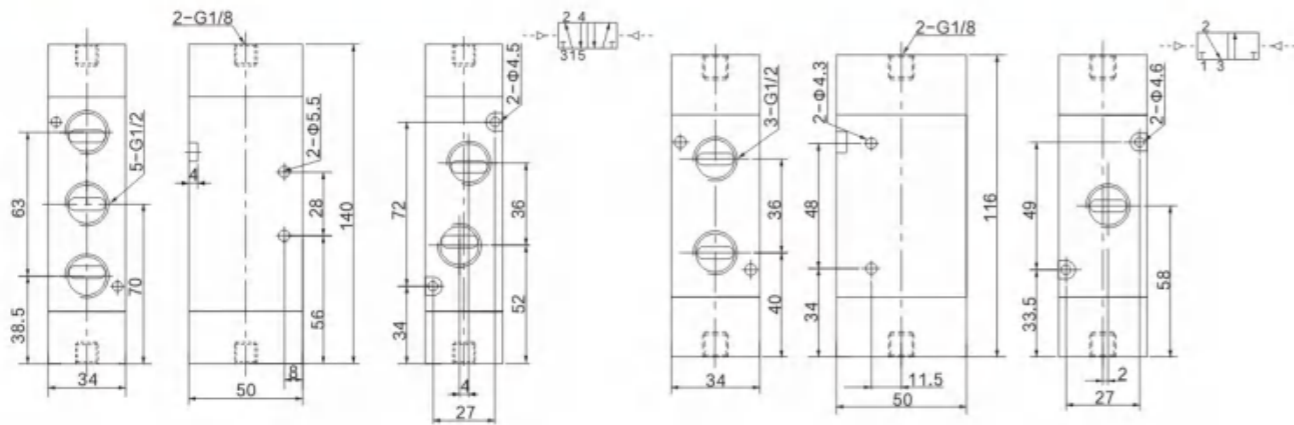
4A410-L-15

3A410-L-15

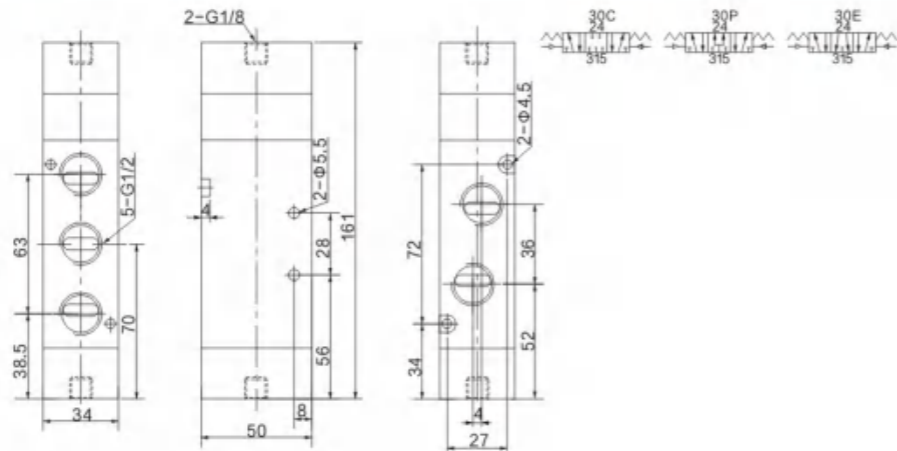


4A420-L-15

3A420-L-15



4A430-L-15



### ● 订购码 Ordering Code

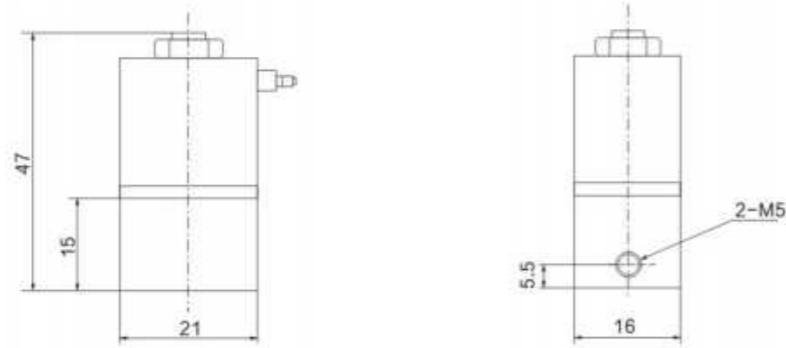
2V	025	08	AC110V
<b>规格代码</b> Specification	<b>流量孔径</b> Aperture of Flow Rate	<b>接管口径</b> Port size	<b>标准电压</b> Standard voltage
2V:二位二通电磁阀 2V:Two-position Two-way	010:10mm 025:2.5mm 130:13mm 250:25mm	M4: M4 × 0.7 06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2" 20: 3/4" 25: 1"	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz

### ● 技术参数 Specifications

型号 Model	2V010-M4	2V025-06	2V025-08	2V130-10	2V130-15	2V250-20	2V250-25
工作介质 Working medium	空气、水、油/Air, Water, Oil						
动作方式 Action mode	直动式/Direct Drive			先导式/Guide Type			
型式 Type	常闭型/Normal Close Type						
流量孔径 mm Aperture of Flow Rate	1.0	2.5		13			25
CV值 CV Value	0.10	0.23		6.2			23
接管口径 Joint pipe Bore	M4 × 0.7	1/8"	1/4"	3/8"	1/4"	3/4"	1
使用流体粘滞度 Operation Fluid Viscosity	20 CST以下(Below)						
使用压力 Mpa Working-pressure	0~1.0MPa(0~145psi)			0.05~1.0MPa(7~145psi)			
最大耐压力 Max. pressure Resistance	1.2	1.6		1.0			
工作温度 °C Operating Temperature	-10~80°C						
使用电压范围 Voltage Range	± 10%						
保护等级 Protect Class	Ip65						
耗电量 Power consumption	AC:4.5AV DC:3W						
绝缘性 Insulation	F级 / F Class						
本体材质 Body Material	铝或铜(镀镍处理)/Aluminum or Brass(Coated)			黄铜 Brass			
油封材质 Material of Oil Seal	NBR或VITON/NBR or VITON			NBR或VITON/NBR or VITON			
最短励磁时间 Shortest excitation time	0.05						

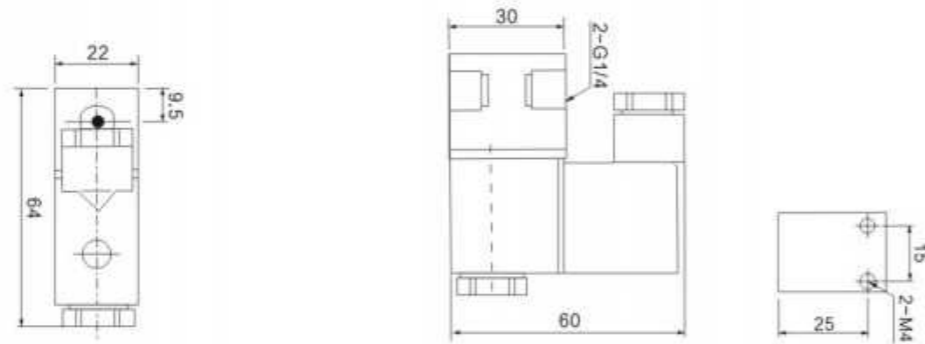
### ● 外形尺寸图 Overall Dimension Drawing(mm)

2V010-M



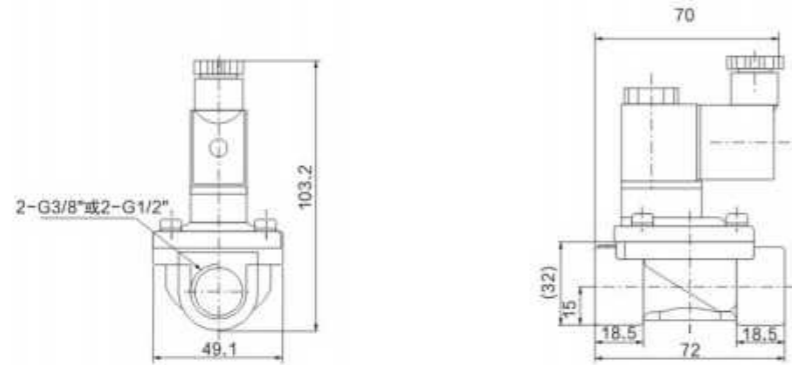
2V025-06

2V025-08



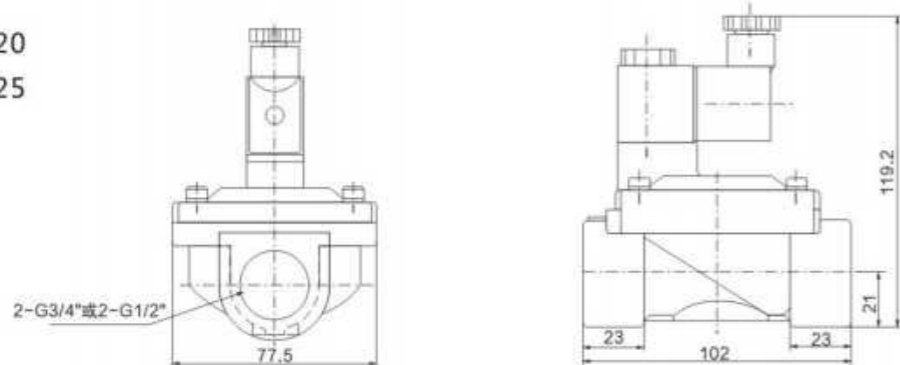
2V130-10

2V130-15



2V250-20

2V250-25



3V1-06

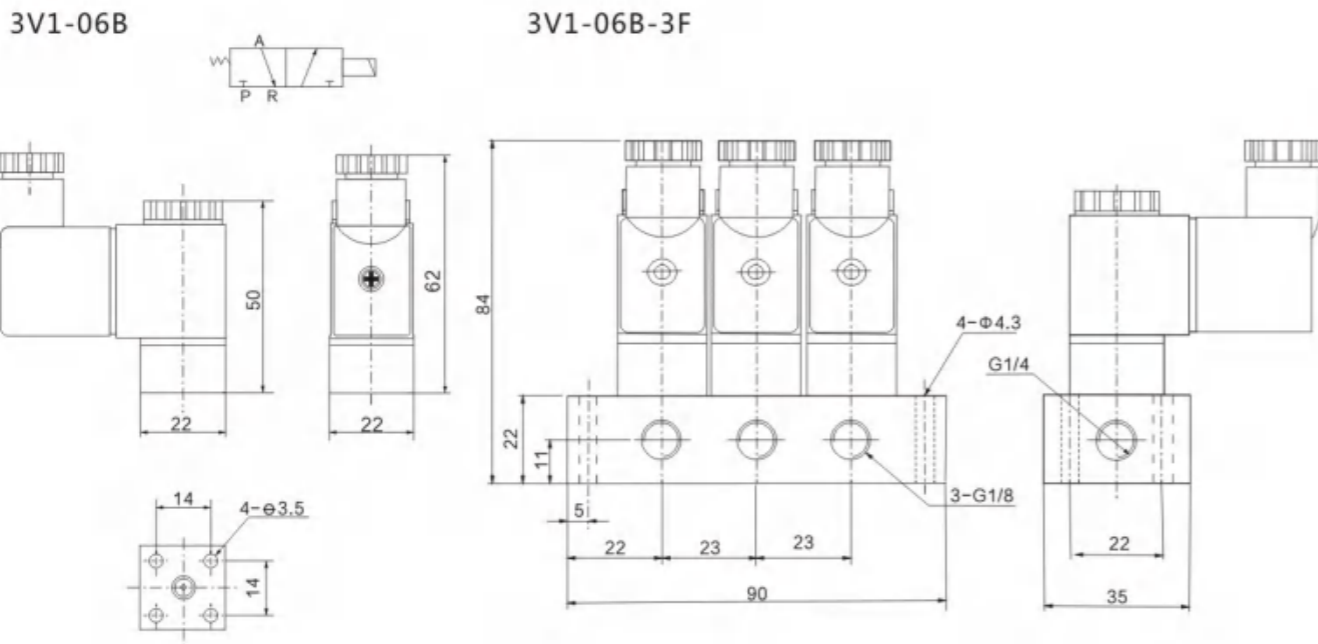
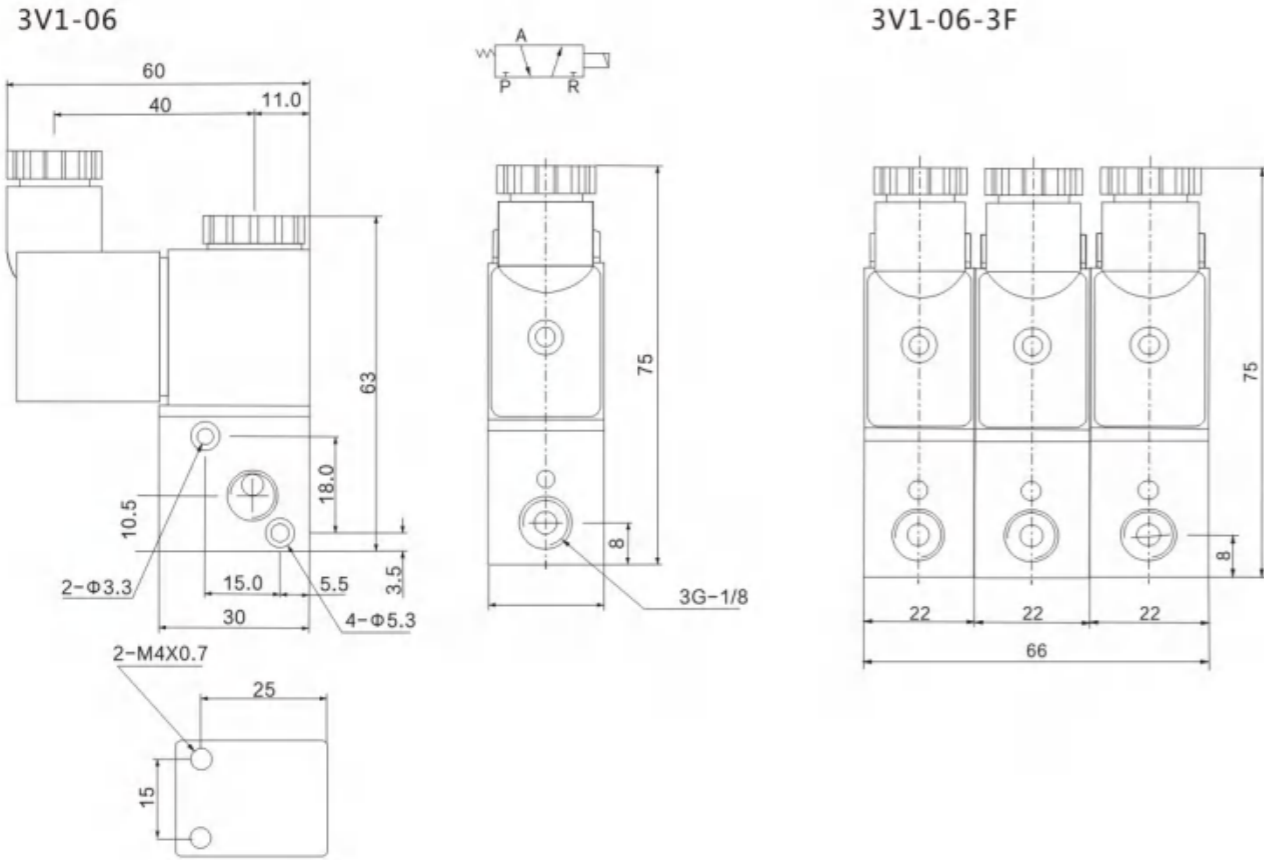
### ● 订购码 Ordering Code

3V	1	06	B	AC220V	F
<b>规格代码</b> Specification Code	<b>系列代码</b> Series Code	<b>接管口径</b> Piping Size	<b>连接方式</b> Connecting Type	<b>标准电压</b> Standard voltage	<b>连座数</b> Joint
3V:二位三通电磁阀 3V:Two-position Three-way Solenoid Valve	1:100系列 1:100Series	M5:M5 06:1/8"	空白:管接式 B:板接式 Blank:Pipe Connection Type B:Plate Connection Type	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	1F-20F

### ● 技术参数 Specifications

型号 规格 Model	3V1-M5	3V1-06
工作介质 Working medium	经40微米过滤的空气40Micron Filtered Air	
动作方式 Action mode	直动式/Direct Drive	
接管口径 Piping Size	M5	1/8"
周围温度 Ambient Temperature	-10~+60°C	
气体温度 Gas Temperature	-5~60°C	
出风口直径 Air Outlet Diameter	1.0mm	
润滑 Lubrication	不需要/Not Necessary	
使用压力 The use of pressure	0~0.8Mpa	
最大耐压力 Max. pressure Resistance	1.2Mpa	
耗电量 Power consumption	AC:4.5VA DC:3.0W	
保护等级 Protect Class	IP65	
接线形式 Connection form	出线式或端子式/Lead Wire or Connector Type	
本体材质 Material of Body	铝合金/Aluminum alloy	
最高动作频率 Highest action frequency	每秒10次/10Cycle/Sec	
绝缘性 Insulation	F级/F Class	
电压范围 Voltage Range	±10%	
最短励磁时间 Shortest excitation time	0.05秒/0.05/Second	

### ● 外形尺寸图 Overall Dimension Drawing(mm)



### ● 订购码 Ordering Code

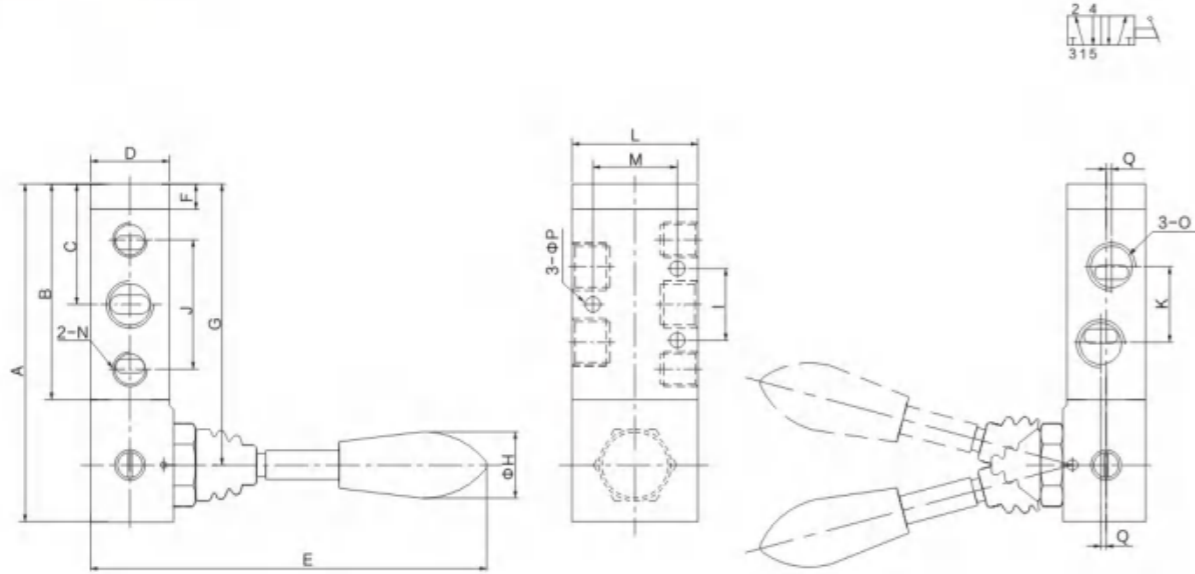
4H	2	10	L	06	S
<b>规格代码</b> Specification Code	<b>系列代码</b> Series Code	<b>位数</b> Places	<b>新款系列</b> New Series	<b>接管口径</b> Port Size	<b>接线形式</b> Connection form
4H:手扳阀系列 4H:Hand-Pull Valve Series	200系列 300系列 400系列 200Series 300Series 400Series	10:单头双位置 30C:单头三位置封闭型 30E:单头三位置排气型 30P:单头三位置压力型 10:Single-head Double-position 30C:Single-head Three-position Close Type 30E:Single-head Three-position Exhaust Type 30P:Single-head Three-position Pressure Type		06: G1/8 " 08: G1/4" 10: G3/8 " 15: G1/2 "	空白:锁定型 S:弹簧复位 Blank:Lock type S:Spring Return

### ● 规格 Specification

型号/Model	4H210-L-06 (S)	4H210-L-08 (S)	4H230-L-08 (S)	4H310-L-08 (S)	4H310-L-10 (S)	4H330-L-10 (S)	4H410-L-15 (S)	4H430-L-15 (S)
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air							
动作方式 Operating Method	直动式/Direct Drive Type							
有效截面积 Effective Sectional Area	14mm <sup>2</sup> (CV=0.78)	16mm <sup>2</sup> (CV=0.89)	12mm <sup>2</sup> (CV=0.67)	25mm <sup>2</sup> (CV=1.4)	30mm <sup>2</sup> (CV=1.68)	18mm <sup>2</sup> (CV=1.00)	50mm <sup>2</sup> (CV=2.79)	30mm <sup>2</sup> (CV=1.68)
接管口径 Port Size	进气=出气=排气=G1/8" Air Inlet=Air Outlet=Exhaust=G1/8"	进气=出气=G1/4" 排气=G1/8" Air Inlet=Air Outlet=G1/4" Exhaust=G1/8"	进气=出气=排气=G1/4" Air Inlet=Air Outlet=Exhaust=G1/4"	进气=出气=排气=G1/4" Air Inlet=Air Outlet=Exhaust=G1/4"	进气=出气=G3/8" 排气=G1/4" Air Inlet=Air Outlet=G3/8" Exhaust=G1/4"		进气=出气=排气=G1/2" Air Inlet=Air Outlet=Exhaust=G1/2"	
使用压力范围 Working-pressure Range	0-0.8MPa							
使用温度范围 Operating Temperature Range	-5-60°C							
寿命 Life	2000万次/20Million							

### ● 外形尺寸 Overall Dimension

4H-L系列/Series



### ● 尺寸表 Dimension Sheet

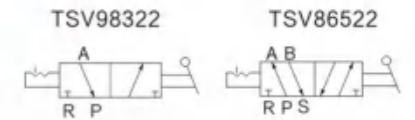
符号型号 Symbol/Model	4H210-L-08(06)	4H230-L-08(06)-S (自动复位)	4H310-L-10(08)	4H330-L-10(08)-S (自动复位)	4H410-L-15	4H430-L-15-S (自动复位)
	4H230-L-08(06)	(Automatic Reset)	4H330-L-10(08)	(Automatic Reset)	4H430-L-15	(Automatic Reset)
A	94	110.3	107.1	123.1	136.4	154.6
B	60	76.3	72.5	88.5	101.8	120
C	33.5	49.8	40	56	54.8	73
D	22	22	27	27	34	34
E	110.4	110.4	115.4	115.4	124.4	124.4
F	7	23.3	7.5	23.5	7.8	26
G	78.2	94.5	90.8	106.8	120.1	138.3
H	18	18	18	18	18	18
I	20	20	24	24	28	28
J	36	36	45	45	63	63
K	21(20)	21(20)	24	24	36	36
L	35	35	40	40	50	50
M	23.5	23.5	27	27	35.5	35.5
N	G1/8	G1/8	G1/4	G1/4	G1/2	G1/2
O	G1/4(G1/8)	G1/4(G1/8)	G3/8(G1/4)	G3/8(G1/4)	G1/2	G1/2
P	4.3	4.3	4.3	4.3	5.5	5.5
Q	1.5(1.5)	1.5(1.5)	2(2)	2(2)	2(2)	2(2)



### ● 订购码 Ordering Code

TSV86	52	2	M
系列代号 Series Code	位置数 Position Number	口径代号 Port Size	形式代号 Code
TSV86	52: 二位五通	1: G1/8"	M: 机械锁定式
TSV98	32: 二位三通	2: G1/4"	S: 弹簧复位式
	52: 5/2 way		M: Mechanical Lock
	32: 3/2 way		S: Spring Return

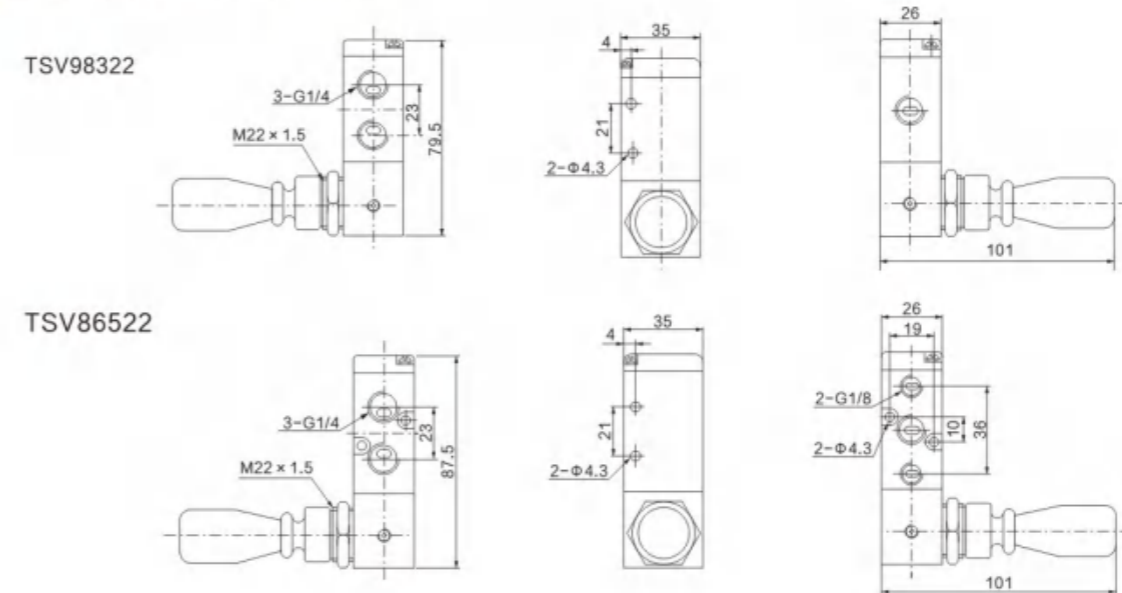
### ● 图形符号 Symbol



### ● 规格 Specification

型号 Model	TSV86522 M S	TSV98322 M S
位置数 Position Number	二位五口 5/2 way	二位三口 3/2 way
工作介质 Working Medium	经40微米过滤的空气 Air 40Micron Filtered	
动作方式 Operation	直动式 40 Micron Filtered Air	
有效截面积 Effective Cross Section Area	18mm <sup>2</sup>	
接口口径 Port Size	G1/4	
使用压力范围 Working Pressure	0-0.8MPa	
使用温度范围 Working Temperature	0-60°C	

### ● 外形尺寸 Overall Dimension





HV200-02



K34R8-L8

### ● 订购码 Ordering Code

<b>HV</b>	<b>200</b>	<b>02</b>	<b>B</b>
规格代码 Specification	系列号 Series NO	接口口径 Port Size	接管形式 Connection type
手转阀 Hand Switching Valve		02: G1/4" 03: G3/8" 04: G1/2"	空白: 管接式 B: 板接式 Blank: Threaded B: Sub-plate

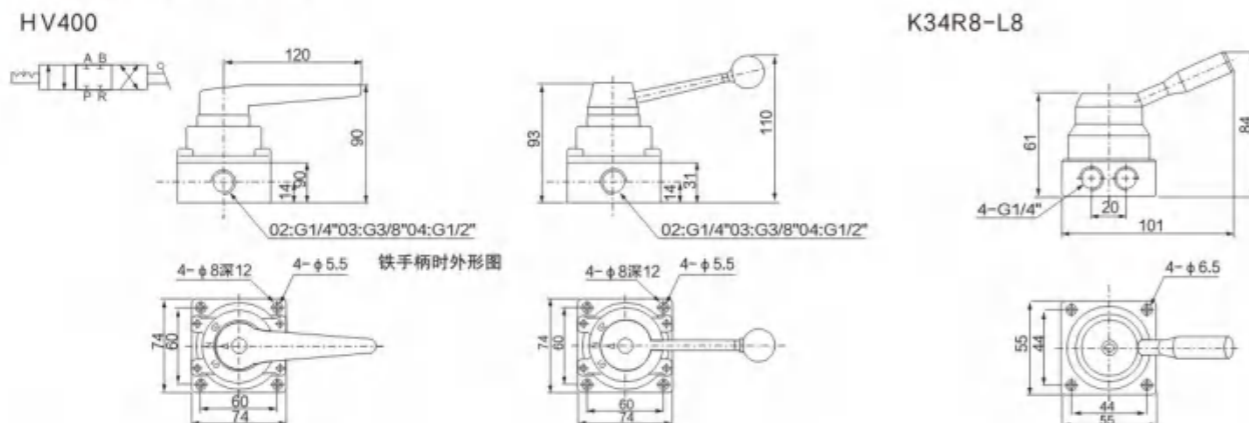
<b>K</b>	<b>34</b>	<b>R8</b>	<b>L8</b>
规格代码 Specification	系列号 Series	接口代号 Port Size	接管形式 Connection Type
手转阀 Hand Switching Valve	24: 二位四通 34: 三位四通 24: 4/2 Way 34: 4/3 Way	R8: 手转阀 Switching Valve	L8: G 1/8" L8: G 1/4"

### ● 规格 Specification

型号 Model	HV400-02	HV400-03	HV400-04	K34R8-L6	K34R8-L8
工作介质 Working Medium	经40微米过滤的空气 / 40 Micron Filtered Air				
有效截面积 Effective Sectional Area	30mm <sup>2</sup> (CV=1.68)			18mm <sup>2</sup> (CV=1.00)	
接口口径 Joint Pipe Bore	G1/4"	G3/8"	G1/2"	G1/8"	G1/4"
使用压力范围 Working-pressure Range	0~0.8MPa				
使用温度范围 Operating Temperature	0~60°C				

公司可提供密封结构形式为橡胶软密封和陶瓷硬密封的手转阀。  
Company can offer Hand-switching Valve with soft rubber seals and hard pottery seals as the seal structure form

### ● 外形尺寸 Overall Dimension



4R110-L-06



4R210-L-08

### ● 订购码 Ordering Code

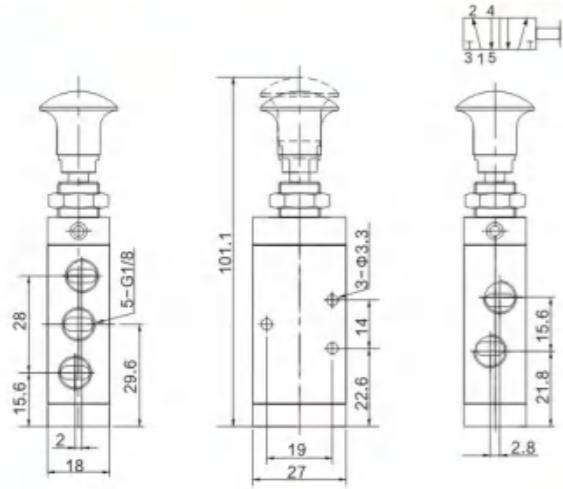
<b>4R</b>	<b>2</b>	<b>10</b>	<b>L</b>	<b>08</b>
规格代码 Specification Code	系列代号 Series Code	位数 Places	新款系列 New Series	接管口径 Joint Pipe Bore
4R: 二位五通手拉阀 3R: 二位三通手拉阀 4R: Two-position Five-way Namur Valve 3R: Three-position Five-way Namur Valve	100系列/100 Series 200系列/200 Series 300系列/300 Series	10: 单头双位置 10: Single-head Double-position		06: G1/8" 08: G1/4" 10: G3/8"

### ● 规格 Specification

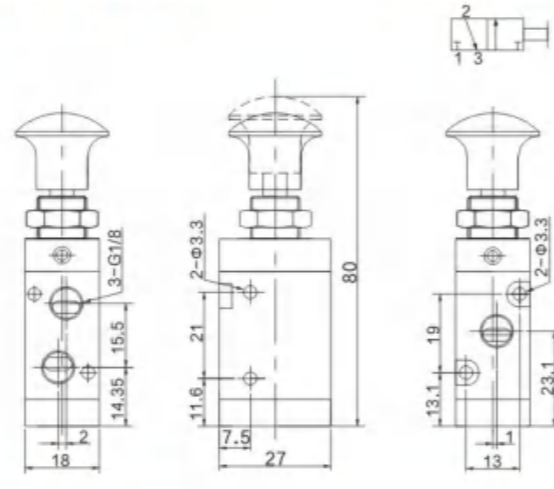
型号 Model	4R110-L-06	4R210-L-06	4R210-L-08	4R310-L-08	4R310-L-10
位通数 Position and Way No.	二位五通/Two-position Five-way				
有效截面积 Effective section area	10mm <sup>2</sup> (CV=0.56)	14mm <sup>2</sup> (CV=0.78)	16mm <sup>2</sup> (CV=0.89)	25mm <sup>2</sup> (CV=1.4)	30mm <sup>2</sup> (CV=1.68)
接管口径 Port Size	进气=出气=排气=G1/8" Air Inlet=Air Outlet=Exhaust=G1/8"		进气=出气=G1/4" 排气=G1/8" Air Inlet=Air Outlet=G1/4" Exhaust=G1/8"	进气=出气=排气=G1/4" Air Inlet=Air Outlet=Exhaust=G1/4"	进气=出气=G3/8" 排气=G1/4" Air Inlet=Air Outlet=G3/8" Exhaust=G1/4"
型号 Model	3R110-L-06	3R210-L-06	3R210-L-08	3R310-L-08	3R310-L-10
位通数 Position and Way No.	二位三通/Two-position Three-way				
有效截面积 Effective section area	12mm <sup>2</sup> (CV=0.67)	14mm <sup>2</sup> (CV=0.78)	16mm <sup>2</sup> (CV=0.89)	25mm <sup>2</sup> (CV=1.4)	30mm <sup>2</sup> (CV=1.68)
接管口径 Port Size	进气=出气=排气=G1/8" Air Inlet=Air Outlet=Exhaust=G1/8"	进气=出气=排气=G1/8" Air Inlet=Air Outlet=Exhaust=G1/8"	进气=出气=排气=G1/4" Air Inlet=Air Outlet=Exhaust=G1/4"	进气=出气=排气=G1/4" Air Inlet=Air Outlet=Exhaust=G1/4"	进气=出气=排气=G3/8" Air Inlet=Air Outlet=Exhaust=G3/8"
工作介质 Working Medium	经40微米过滤的空气/40 Micron Filtered Air				
使用压力 Working Pressure	0~0.8MPa				
保证耐压力 Ensured Pressure Resistance	1.2MPa				
使用温度范围 Operating Temperature Range	-5~60°C				
寿命 Life	2000万次/20Million				

### ● 外形尺寸 Overall Dimension

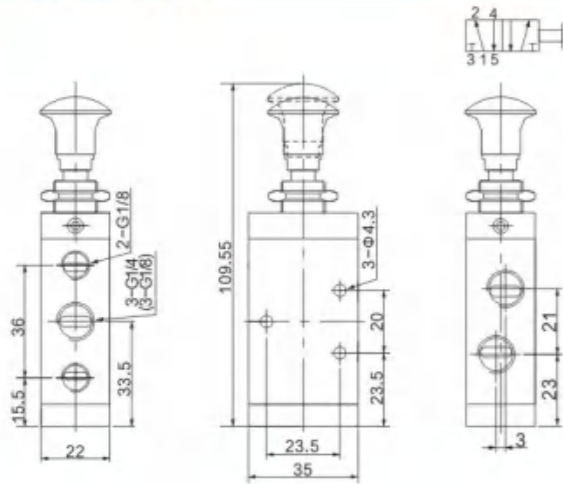
4R110-L-06



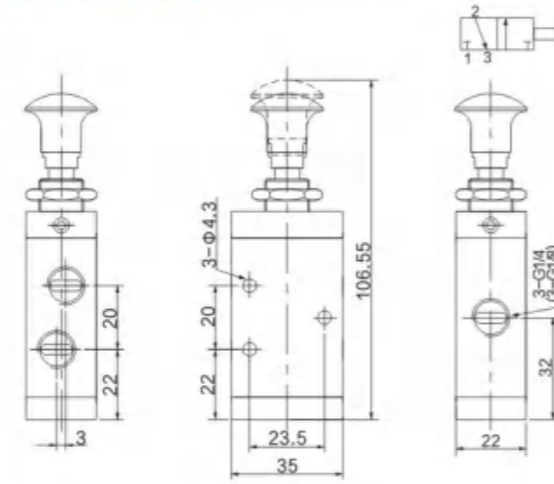
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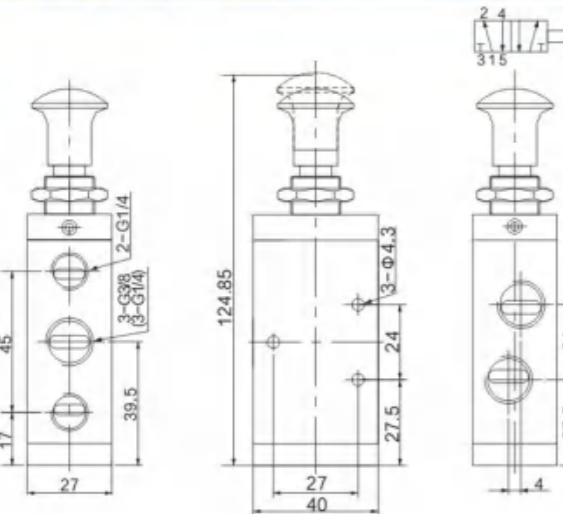
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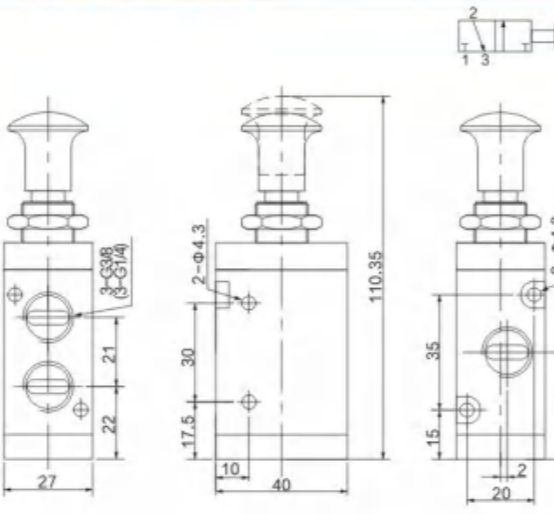
3R210-L-08(06)



4R310-L-10(08)



3R310-L-10(08)



4F210-8G



FV320



4F210-08



FV420

### ● 订购码 Ordering Code

4F	2	10	08	L	FV	320
<b>规格代码</b> Specification	<b>系列代号</b> Series	<b>位置数</b> Position Number	<b>接管口径</b> Port Size	<b>型式代号</b> Type	<b>规格代码</b> Specification	<b>位置数</b> Position Number
4F: 二位五通脚踏阀 4F: 5/2 way foot valve	2: 200系列 2: 200 Series	10: 单头双位置 10: Single head double position	08: G 1/4"	空白: 标准型 L: 附锁型 G: 附罩型 LG: 附锁及罩型 Blank: Standard type L: With lock G: With protecting cover LG: With lock and protecting cover	脚踏阀 Foot Valve	320: 二位三通 420: 二位四通 320: 3/2 way 420: 4/2 way

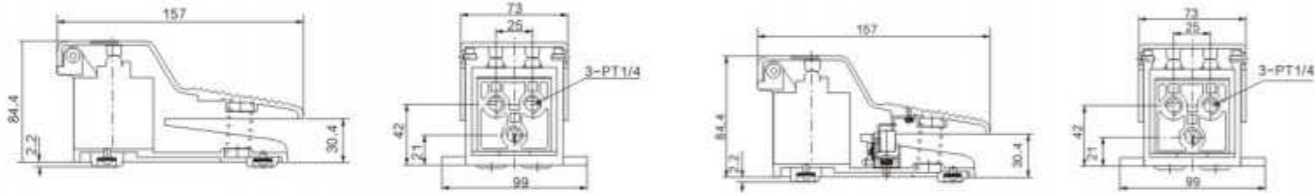
### ● 规格 Specification

型号 Model	4F210-08	4F210-08L	4F210-08G	4F210-08LG	FV420	FV320
工作介质 Working Medium	经40微米过滤的空气 40 Micron Filtered Air					
位通数 Position Number	二位五通 5/2 way				二位四通 4/2 way	二位三通 3/2 way
接口口径 Port Size	进气=排气=出气=G1/4" Inlet, Outlet, Exhaust Port = G 1/4"				进气=出气=G1/4" 排气=G1/8" Inlet, Outlet=G 1/4" Exhaust Port=G 1/8"	
动作形式 Operation	直动式 Direct					
使用压力范围 Working Pressure	0-0.8MPa					
使用温度范围 Working Temperature	0-60°C					

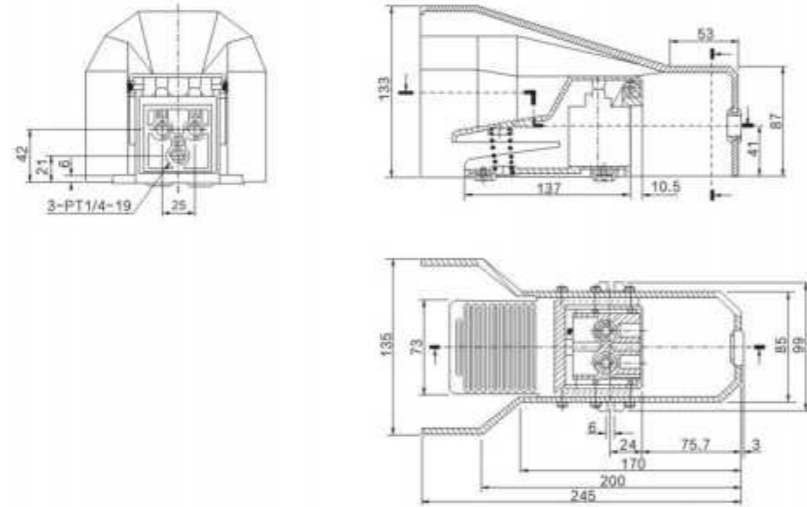
● 外形尺寸 Overall Dimension

4F210-08

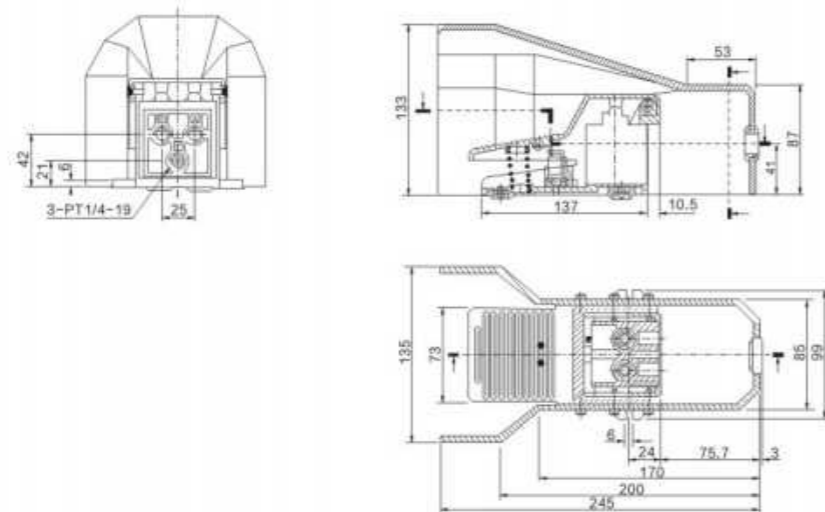
4F210-08L



4F210-08G

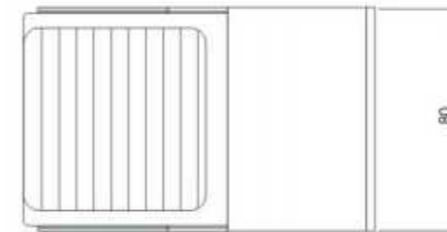
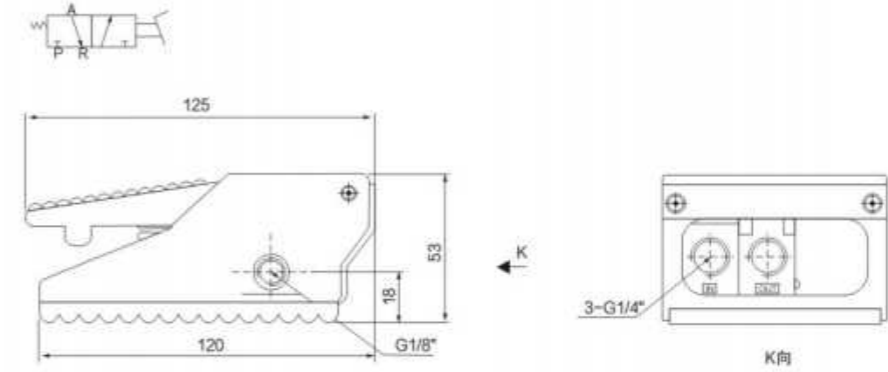


4F210-08LG

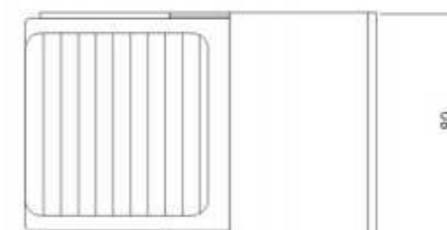
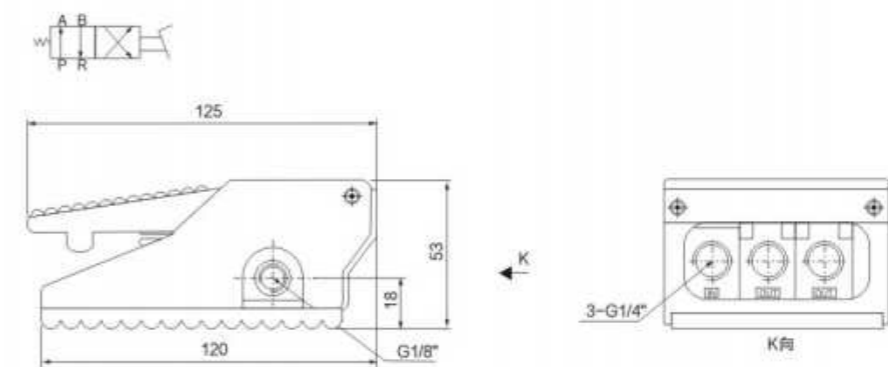


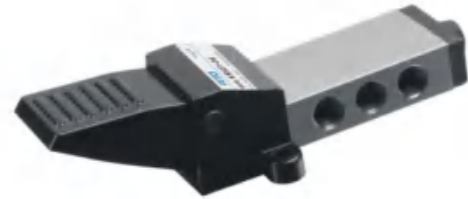
● 外形尺寸 Overall Dimension

FV320



FV420





K23R7-8



K25R7-8

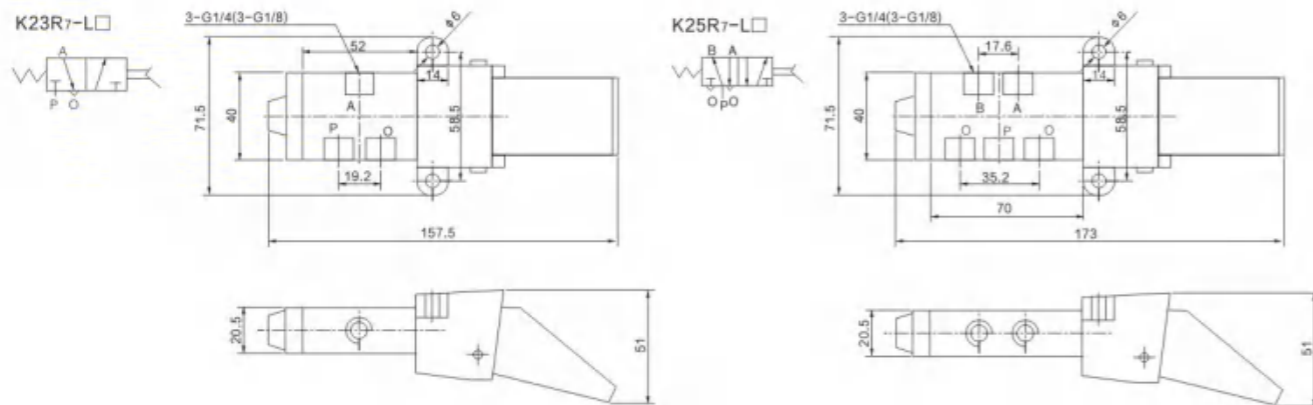
### ● 订购码 Ordering Code

<b>K</b>	<b>23</b>	<b>R7</b>	<b>L</b>	<b>□</b>
<b>规格代码</b> Specification code	<b>结构形式</b> Construction	<b>控制方式</b> Control methods	<b>连接形式</b> Connecting type	<b>公称口径</b> Nominal diameter
K系列换向阀 K series	23: 二位三通 25: 二位五通 23: 3/2 way 25: 5/2 way	脚踏式 Foot Valve	接管式 Pipe fitting type	

### ● 规格Specification

型号Model	K23R7-L6	K25R7-L6	K23R7-L8	K25R7-L8
公称口径(mm) Nominal diameter	6		8	
工作介质 Working medium	压缩空气 Air			
工作压力范围 Mpa Working pressure range	0.05~0.8			
介质温度 (°C) Fluid temperature	-10~55			
环境温度 (°C) Ambient temperature	-5~50			
有效截面积 (mm²) Net sectional area	10		20	
泄漏量 (cm³/min) Leakage rate		≤50		≤100
操作力 KG C	≤80			≤100
寿命千次/Thousands Life		≥2000		

### ● 外形尺寸 Overall Dimension



KA-10

KA-15

KA-20

KA-25

### ● 订购码 Ordering Code

<b>KA</b>	<b>08</b>
<b>系列代号</b> Series	<b>接管口径</b> Port Size
KA: 单向阀	06:G1/8" 15:G1/2" 32:G1/4"
KA: Check Valve	08:G1/4" 20:G3/4" 40:G1/2"
	10:G3/8" 25:G1" 50:G2"

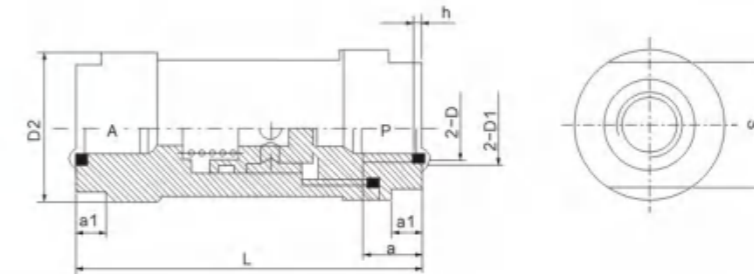
### ● 图形符号 Symbol



### ● 规格Specification

型号 Model	KA-3	KA-6	KA-8	KA-10	KA-15	KA-20	KA-25	KA-32	KA-40	KA-50
工作压力 Working-pressure	0.05~0.8MPa									
环境温度 Environment Temperature	-10~+55°C									
介质温度 Medium Temperature	0~+55°C									
流通能力(mm²)值 Circulating Ability	4	10	20	40	60	110	190	300	400	650
开启能力 Startup Ability	≤0.03MPa									
泄漏量(cm³/min) Leak Out Flow	30	50	50	120	120	250	250	500	500	500
响应时间(Sec) Respond Time	0.03									
寿命(万次) Life(Ten thousand Times)	≥150									

### ● 外形尺寸 Overall Dimension



### ● 尺寸表 Dimension Sheet

型号 Model	公称口径 Bore	D	D1	D2	S	L	a	a1	h
KA-3	3	M6 × 1	Φ9	Φ15	12	36	6	5	1.4 <sup>0</sup> <sub>-0.1</sub>
KA-6	6	G1/8 M10 × 1	Φ13	Φ28	24	64	10	6	1.4 <sup>0</sup> <sub>-0.1</sub>
KA-8	8	G1/4 M12 × 1.5	Φ16	Φ28	24	64	12	6	1.4 <sup>0</sup> <sub>-0.1</sub>
KA-10	10	G3/8 M16 × 1.5	Φ20	Φ40	36	86	14	10	1.8 <sup>0</sup> <sub>-0.1</sub>
KA-15	15	G1/2 M20 × 1.5	Φ26	Φ40	36	86	14	10	1.8 <sup>0</sup> <sub>-0.1</sub>
KA-20	20	G3/4 M27 × 2	Φ32	Φ55	46	112	21	12	1.8 <sup>0</sup> <sub>-0.1</sub>
KA-25	25	G1 M33 × 2	Φ40	Φ55	46	112	2	12	2.7 <sup>0</sup> <sub>-0.12</sub>
KA-32	32	G1 1/4 M42 × 2	Φ48	Φ88	75	161	25	22	2.7 <sup>0</sup> <sub>-0.12</sub>
KA-40	40	G1 1/2 M48 × 2	Φ54	Φ88	75	161	26	26	2.7 <sup>0</sup> <sub>-0.12</sub>
KA-50	50	G2 M60 × 2	Φ70	Φ100	90	95	26	26	4.5 <sup>0</sup> <sub>-0.18</sub>



RE-03



RE-04

● 订购码 Ordering Code

<b>RE</b>	<b>02</b>
系列代号 Series Code	接管口径 Port Size
RE:普通型流量控制阀 RE: Ordinary Type Flow Control Valve	01: G1/8" 02: G1/4" 03: G3/8" 04: G1/2"

● 图形符号 Symbol

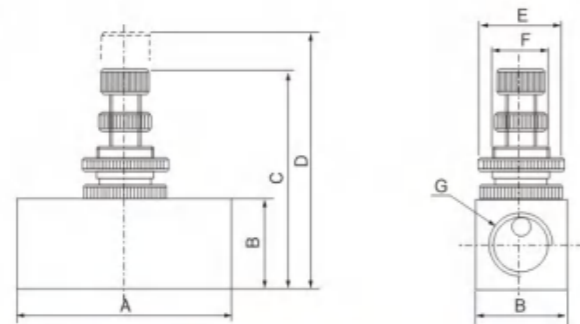


● 规格 Specification

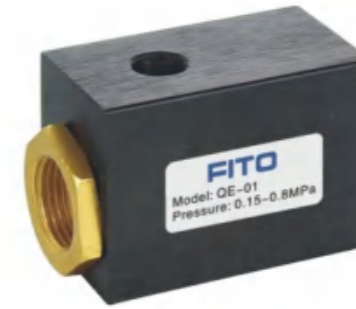
型号 Model	RE-01	RE-02	RE-03	RE-04
接管口径 Joint Pipe Bore	G1/8"	G1/4"	G3/8"	G1/2"
工作介质 Working Medium	空气 / Air			
使用压力范围 Working-pressure Range	0 ~ 0.95MPa			
使用温度范围 Operating Temperature Range	0 ~ 60°C			

● 外形尺寸 Overall Dimension

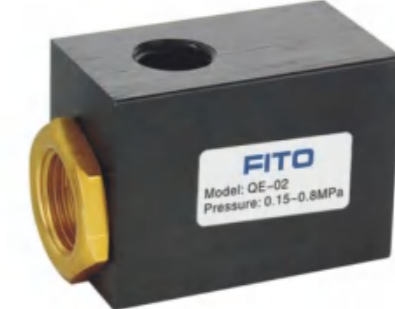
RE系列 / Series



型号 / 符号 Model/ Symbol	A	B	C	D	E	F	G
RE-01	45	19	43	50	φ 19	M14×1	G1/8
RE-02	45	19	43	50	φ 19	M14×1	G1/4
RE-03	55	25	55	62	φ 25	M18×1	G3/8
RE-04	55	25	55	62	φ 25	M18×1	G1/2



QE-01

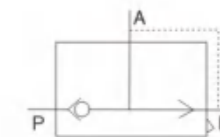


QE-02

● 订购码 Ordering Code

<b>QE</b>	<b>02</b>
系列代号 Series Code	接管口径 Port Size
QE:快速排气阀 QE: Quick Exhaust Valve	01: G1/8" 02: G1/4" 03: G3/8" 04: G1/2" 06: G3/4"

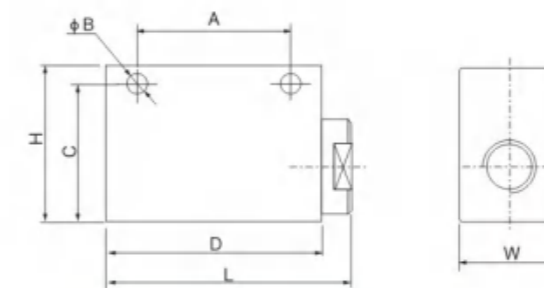
● 图形符号 Symbol



● 规格 Specification

型号 Model	QE-01	QE-02	QE-03	QE-04	QE-06
接管口径 Joint Pipe Bore	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"
有效截面积 Effective Section Area	16 mm <sup>2</sup>	27.5 mm <sup>2</sup>	28 mm <sup>2</sup>	71 mm <sup>2</sup>	72.5 mm <sup>2</sup>
工作介质 Working Medium	空气 / Air				
使用压力范围 Working-pressure Range	0 ~ 1.0MPa				
使用温度范围 Operating Temperature Range	0 ~ 60°C				

● 外形尺寸 Overall Dimension



型号 / 符号 Model/ Symbol	口径 Bore	L	W	H	A	B	C	D
QE-01	G1/8"	46	20	32	30	4.3	27	40
QE-02	G1/4"	62	25	40	39	5.6	33.5	55
QE-03	G3/8"	62	25	40	39	5.6	33.5	55
QE-04	G1/2"	98	38	64	60	8.5	51	90
QE-06	G3/4"	98	38	64	60	8.5	51	90



### ● 产品说明 Product Description

该阀一般安装在气缸与换向阀之间靠近气缸的管路上，使气缸的排气不经换向阀直接排出，达到气缸快速换向的目的。对于提高气缸运动速度的效果尤为明显。

P: 接换向阀输出; A: 接气缸; R: 接消声器

The valve is generally installed on the pipeline between the cylinder and reversal valve and near the cylinder, which directly discharge the air from cylinder without passing the reversal valve and thus to achieve the goal of fast reversion of cylinder. The effect on improving cylinder speed is appreciable.

P: Connect reversal valve export A: Connect cylinder R: connect muffler

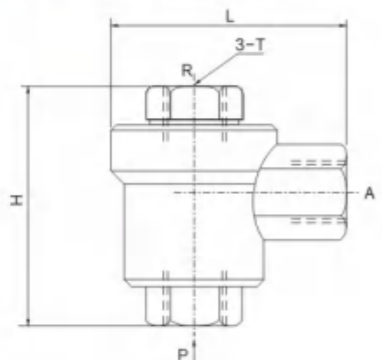
### ● 图形符号 Symbol



### ● 规格 Specification

型号 Model	XQ-08	XQ-10	XQ-15
接管螺纹 Joint Threaded	G1/4"	G3/8"	G1/2"
通径 Port Size	6mm	8mm	15mm
流量 Flow	≥0.9m <sup>3</sup> /min	≥2.5m <sup>3</sup> /min	≥4.5m <sup>3</sup> /min
耐久(万次) Wear(Ten Thousand Times)		≥200	
工作压力范围 Working Pressure Range		0.12-1.0MPa	
换向时间 Exchange Times(S)	≤0.03	≤0.04	≤0.05

### ● 外形尺寸 Overall Dimension



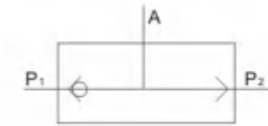
型号 Model	T	H	L
XQ-06	G1/8"	51	45
XQ-08	G1/4"	51	45
XQ-10	G3/8"	68	62
XQ-15	G1/2"	77	86



### ● 订购码 Ordering Code

规格代号 Series Code	接管口径 Port Size
ST: 梭阀	01: G1/8"
ST: Shuttle Valve	02: G1/4"
	03: G3/8"
	04: G1/2"
	06: G3/4"
	08: G1"

### ● 图形符号 Symbol

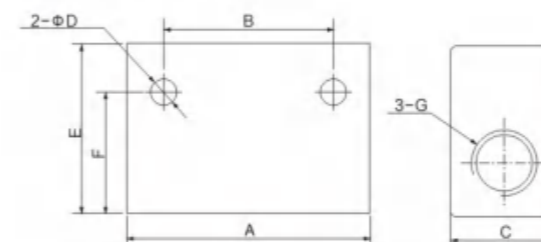


### ● 规格 Specification

型号 Model	ST-01	ST-02	ST-03	ST-04	ST-06	ST-08
工作介质 Working Medium	空气 Air					
有效截面积 Effective Cross Section Area	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"
接管口径 Port Size	7.5mm <sup>2</sup>	21mm <sup>2</sup>	40mm <sup>2</sup>	60mm <sup>2</sup>	110mm <sup>2</sup>	190mm <sup>2</sup>
使用压力范围 Working Pressure	0-1.0MPa					
使用温度范围 Ambient Temperature	0-60°C					

### ● 外形尺寸 Overall Dimension

#### ST系列 ST Series



### ● 尺寸表 Dimension

型号/符号 Model Symbol	A	B	C	D	E	F	G
ST-01	40	24	16	4.5	25	20.5	G1/8"
ST-02	50	35	22	5.5	35	25	G1/4"
ST-03	75	48	30	7	50	42	G3/8"
ST-04	75	48	30	7	50	42	G1/2"
ST-06	110	72	40	7	70	58	G3/4"
ST-08	110	72	40	7	70	58	G1"



### ● 订购码 Ordering Code

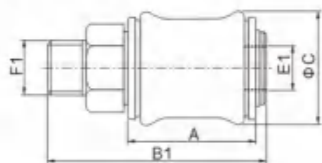
<b>HSV</b>	<b>01</b>	<b>MM</b>
<b>规格代号</b> Series Code	<b>接管口径</b> Port Size	<b>安装型式</b> Installation
手动滑阀 Hand sliding series	01: G1/8" 02: G1/4" 03: G3/8" 04: G1/2" 05: G3/4" 06: G1"	空白: 标准型式 Standard MM: 双外牙型 Double male thread FF: 双内牙型 Double female thread MF 外内牙型 Male and female thread

### ● 特点 Feature

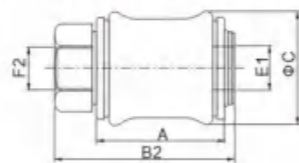
该阀是一种二位三通手动滑阀，常接在管道中用作气源开关，当气源关闭的同时，气动系统中的气压亦即排空。  
2/3 Hand sliding valve can be used as switch of Air source. When Air source is switched off, the remained air in system can be released.

### ● 外形尺寸 Overall Dimension

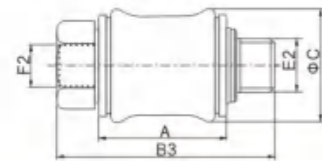
标准型/Standard



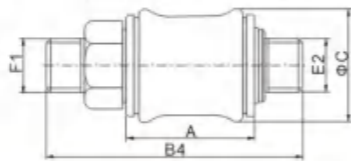
双内牙型(FF)/Double female thread(FF)



外内牙型(MF)/Male and female thread(MF)



双外牙型(MM)/Double male thread(MM)



### ● 尺寸表 Dimension

型号/符号 Model/Symbol	A	B1	B2	B3	B4	C	D	E1	E2	F1	F2
HSV-01	30	50	43	50	57	27.5	17	G1/8	R1/8	R1/8	G1/8
HSV-02	32.5	58	47	58	69	30	19	G1/4	R1/4	R1/4	G1/4
HSV-03	39	68.5	55.5	68.5	81.5	35.5	22	G3/8	R3/8	R3/8	G3/8
HSV-04	50	85.5	70.5	85.5	100.5	44	30	G1/2	R1/2	R1/2	G1/2
HSV-05	58	96.5	79.5	96.5	113.5	53.5	36	G3/4	R3/4	R3/4	G3/4
HSV-06	70	114.5	96.5	114.5	132.5	65.5	44	G1	R1	R1	G1



### ● 订购码 Ordering Code

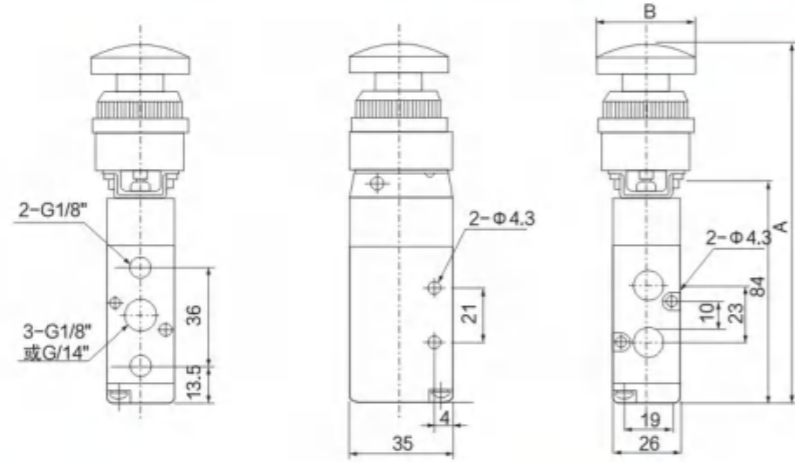
<b>MSV</b>	<b>86</b>	<b>32</b>	<b>1</b>	<b>R</b>
<b>规格代号</b> Specification Code	<b>系列代号</b> Series Code	<b>位通数</b> Position and Way Number	<b>接口口径</b> Joint Pipe Bore	<b>按钮形式</b> Button Type
机械阀 Mechanical Valve	86系列/Series 98系列/Series	32:二位三通 52:二位五通 32:Two-position Three-way 52:Two-position Five-way	1: G1/8" 2: G1/4"	空白: 基本型 Blank: Basic Type R: 滚轮型 R: Roller Type TB: 选择型旋钮 TB: Selective Knob LB: 加长型旋钮 LB: Strengthened Knob PB: 大圆型按钮 PB: Large Round Button PP: 平圆型按钮 PP: Flat Round Button PPL: 凸圆型按钮 PPL: Convex Round Button EB: 带锁型按钮 EB: With Lock Button

### ● 规格 Specification

型号 Model	MSV86321	MSV86522	MSV96322
工作介质 Working Medium	经40微米过滤的空气, 40 Micron Filtered Air		
位通数 Position and Way Number	二位三通 Two-position Three-way	二位五通 Two-position Five-way	二位三通 Two-position Three-way
压力范围 Pressure Range	0~0.8MPa	0~0.8MPa	0~0.8MPa
温度范围 Temperature Range	0~60°C		
有效截面积 Effective Section Area	12mm <sup>2</sup> (CV=0.67)	16mm <sup>2</sup> (CV=0.89)	16mm <sup>2</sup> (CV=0.89)
接管口径 Joint Pipe Bore	G1/8"	G1/4"	G1/4"

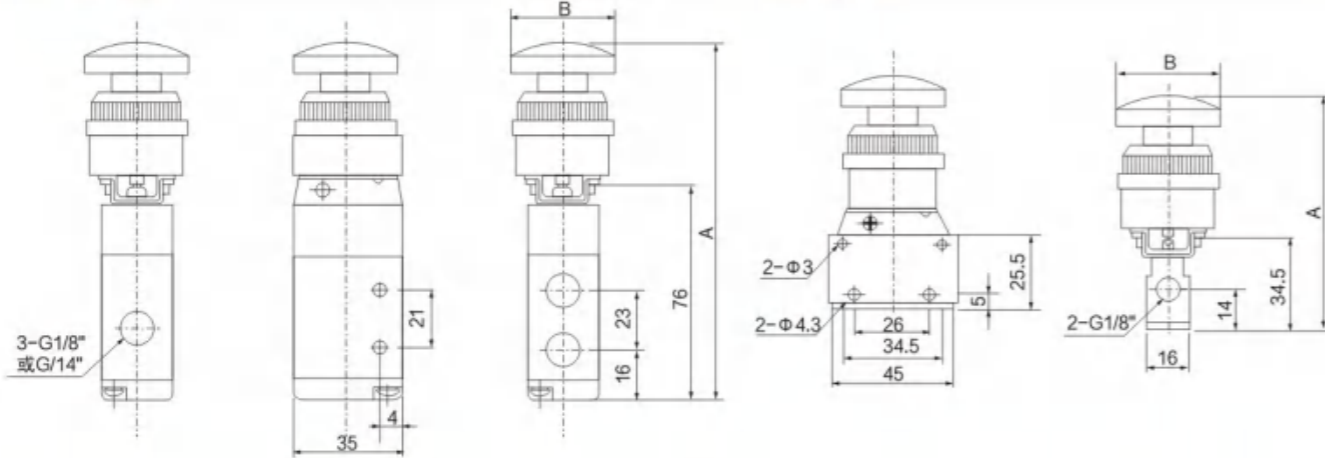
### ● 外形尺寸 Overall Dimension

MSV86522

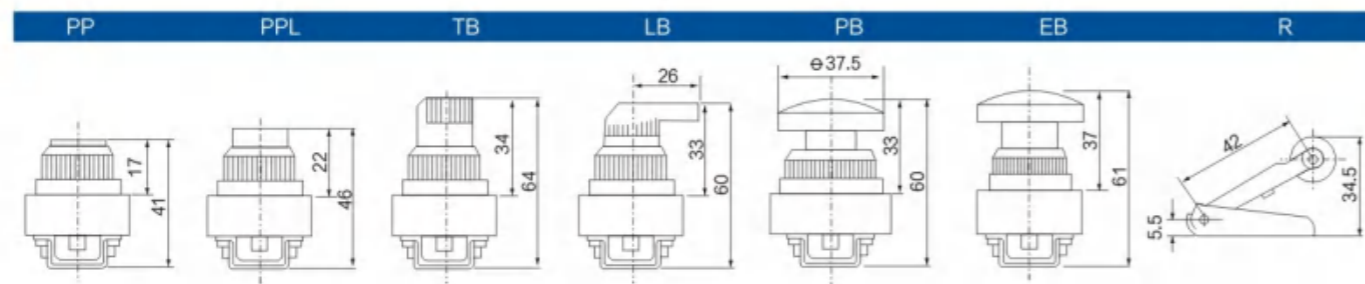


MSV98322

MSV86321



系列/Series	符号/型号 Symbol/Model	PP	PPL	LB	TB	EB	PB	R
MSV86522	A	114	119	133	136.5	134	131	107.5
	B	39.5	24.5	26.5	36.5	39.5	37.5	42.5
MSV98322	A	106	111	125	129.5	126	123	99.5
	B	39.5	24.5	26.5	36.5	39.5	37.5	42.5
MSV86321	A	66	71	85	88.5	86	83	59.5
	B	39.5	24.5	26.5	36.5	39.5	37.5	42.5



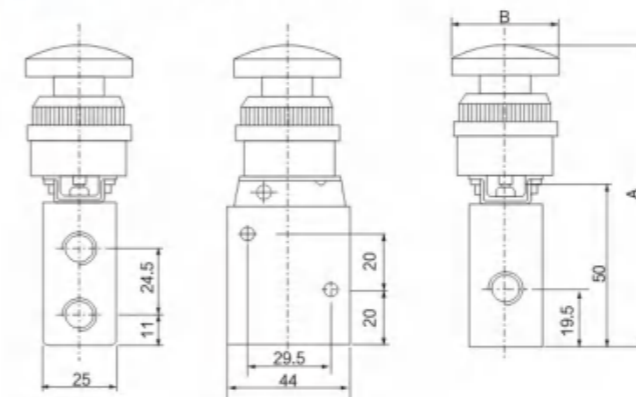
### ● 订购码 Ordering Code

JM	05
<b>规格代码</b> Specification Code	<b>按钮形式</b> Button Type
截止式机械阀 Stop-type Mechanical Valve	05:选择型旋钮/Selective Knob 06:连锁型按钮/With Lock Button 06A:平圆型按钮/Plat Round Button 07:滚轮型/Roller Type

### ● 规格 Specification

系列 Series	JM-05	JM-06	JM-06A	JM-07
工作介质 Working Medium	经40微米过滤的空气 / 40 Micron Filtered Air			
位通数 Position and Way NO.	二位三通 / Two-position Three-way			
接口口径 Joint Pipe Bore	G1/4"			
使用压力范围 Working-pressure Range	0 - 0.8MPa			
使用温度范围 Operating Temperature	0 - 60°C			

### ● 外形尺寸 Overall Dimension



### ● 尺寸表 Dimension Sheet

型号 Model	A	B
JM-05	114	36.5
JM-06	111	39.5
JM-06A	96	39.5
JM-07	84.5	42.5



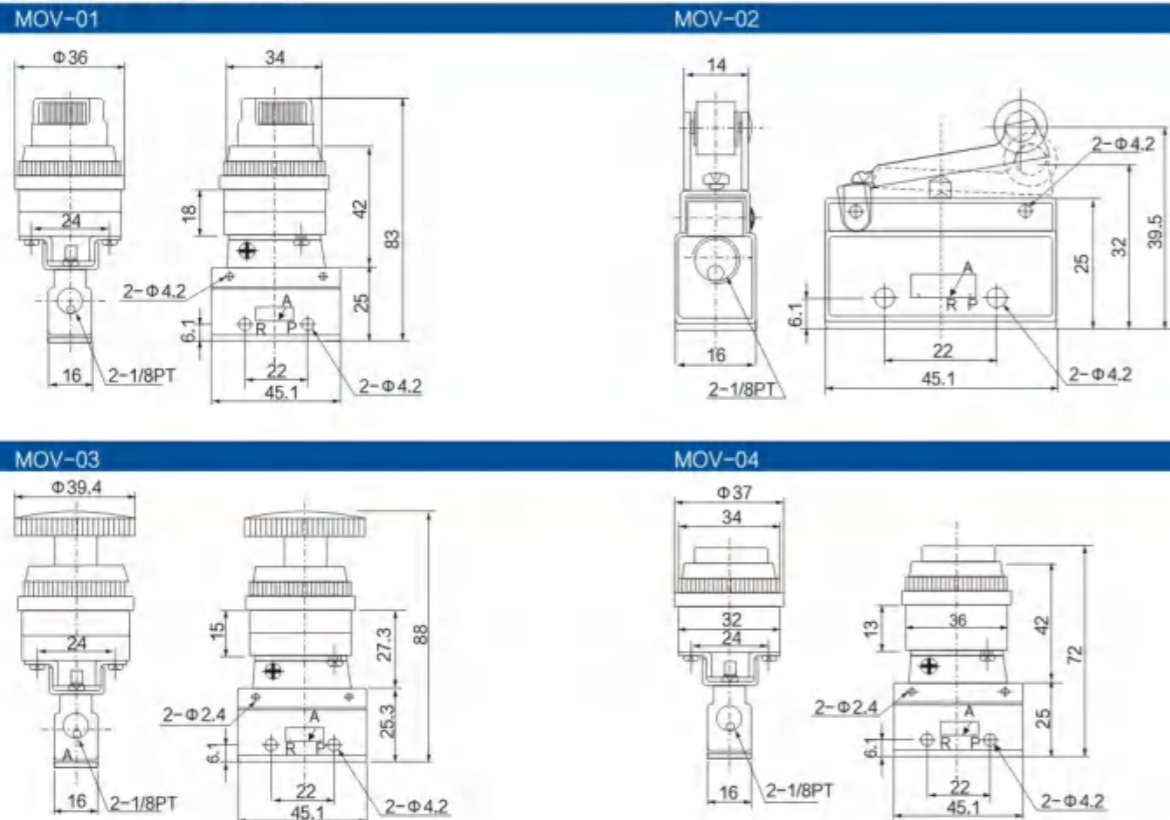
### ● 订购码 Ordering Code

<b>MOV</b>	-	<b>02</b>
型号 Type		按钮形式 Button Type
		01:选择型旋钮 02:滚轮型 03:连锁型按钮 04:平圆型按钮 01:Selective Knob 02:Roller Type 03:With Lock Button 04:Plat Round Button

### ● 规格 Specification

型号Model	MOV-01	MOV-02	MOV-03	MOV-04
使用流体 Operating Fluid	空气 / Air			
位通数 Position and Way NO.	二位三通 / Two-position Three-way			
接口口径 Joint Pipe Bore	G1/8"			
使用压力范围 Working-pressure Range	0 - 0.8MPa			
使用温度范围 Operating Temperature	0 - 70°C			

### ● 外形尺寸 Overall Dimension



### ● 产品说明 Product Explain

人控阀:是人力控制换向阀,可直接控制气源信号或驱动执行元件使用。阀的操作形式有按钮,手拨,脚踏,手动等;操作方便,反应灵敏;特别是急停阀,换向行程短,常用作气动装置急停操作。

机控阀:是机械外力控制换向阀,当外力消除,阀自动复位,信号消除,外力控制方式有:顶杆式,顶杆滚轮式,杠杆滚轮式等。

Manually control valve:manually controlled reversal valve used for direct control of air source signal or driving executive elements.The valve can be operated and controlled by button,hand-push,pedal and manual. It is convenient and sensitive in operation.Especially the emergency stop valve with short reversing stroke is often used in emergency operation of pneumatic units.

Machine control valve:mechanically controlled reversal valve,which will auto reset and the signal eliminated when the outside force is released. The control by outside force is realized by means of ejector rod, ejector rod roller and lever roller etc.

### ● 订购码 Ordering Code

<b>XQ</b>	<b>25</b>	-	<b>06</b>	-	<b>20</b>
型号 Model	工作类型 Work Type		接口口径 Joint Pipe Code		控制方式 Control Type
	25:二位三通 23:二位三通 25:Two-position Five-way 23:Two-position Three-way		04:G1/8(4mm) 06:G1/4(6mm)		10:顶杆式机控阀/Ejector Rod Type Machine-Control Valve 11:顶杆滚轮式机控阀/Ejector Rod Roller Type Machine-Control Valve 12:杠杆滚轮式机控阀/Lever Roller Type Machine-Control Valve 13:可通过杠杆滚轮式机控阀/Can Pass Lever Roller Type Machine-Control Valve 20:按钮阀/Button Valve 20.1:急停阀/Flashing Stop Valve 21:手拨阀/Hand-push Valve 22:手拉阀/Hand-draw Valve

### ● 规格 Specification

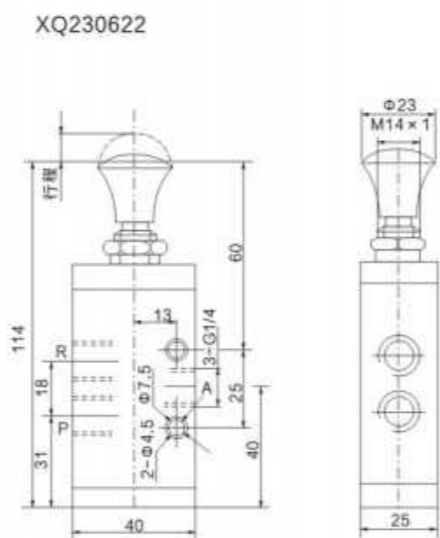
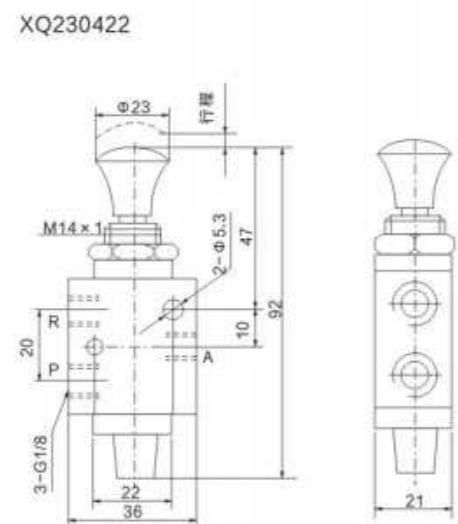
型号Model	XQ2304□□	XQ2504□□	XQ2306□□	XQ2506□□
工作介质 Working Medium	空气 / Air			
位通数 Position and Way NO.	二位三通 Two position three-way	三位三通 Three position five-way	二位三通 Two position three-way	三位三通 Three position five-way
接管口径 Joint Pipe Bore	进气Air inlet=出气Air outlet=PT1/8		进气Air inlet=出气Air outlet=PT1/4	
有效截面积 Effective sectional area	14mm <sup>2</sup> (CV=0.78)		25mm <sup>2</sup> (CV=1.39)	
使用压力 The use of pressure	0-8.0Kgf/cm <sup>2</sup>			
保证耐压力 Ensured Pressure Resistance	12.0Kgf/cm <sup>2</sup>			
使用温度范围 Operating Temperature Range	-5~60°C			

### ● 使用说明 Use Explain

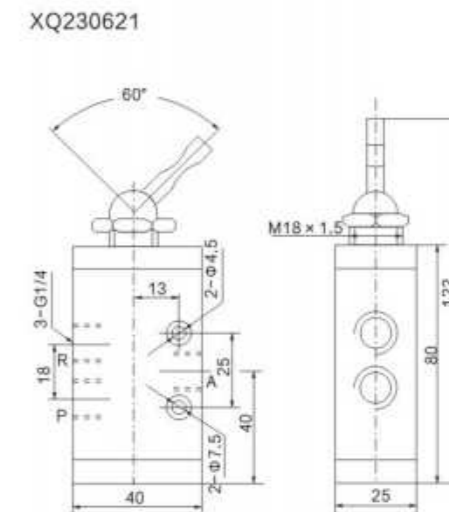
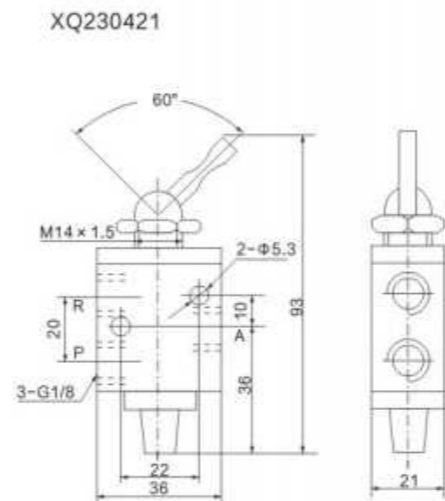
- 1.使用前检查元件在运输过程中是否损坏,然后再安装使用。
- 2.安装时注意气体流向,机控阀请注意撞块与阀的行程相适应。
- 3.采用金属管连接时,请清除管内的金属削粒等杂物。

- 1.Check if the elements are damaged during transportation before use and installation.
- 2.Pay attention to the airflow during installation. For mechanically controlled valve, please attend to the conformity between striker and valve stroke.
- 3.When connecting with metal pipe,first remove the foreign matters such as metal bits inside the pipe

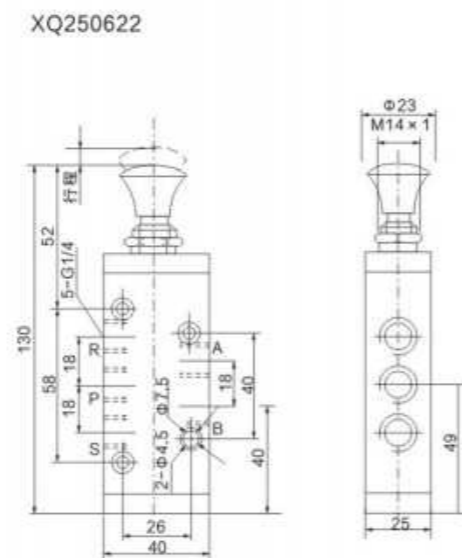
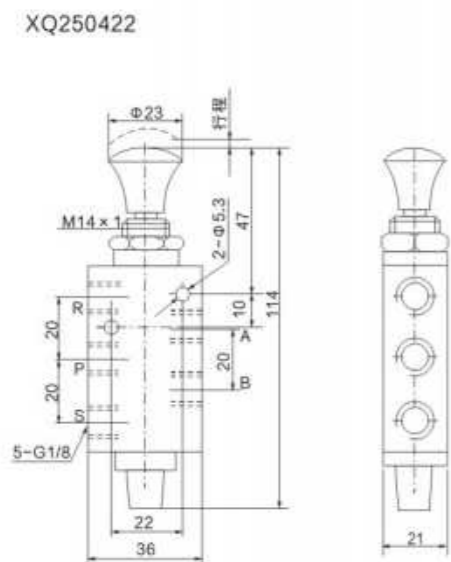
## 外形尺寸 Overall Dimension



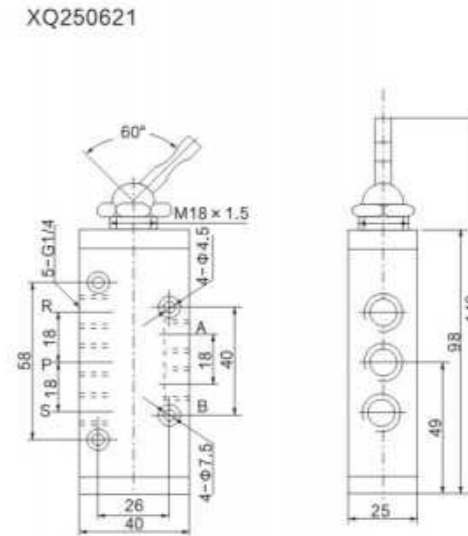
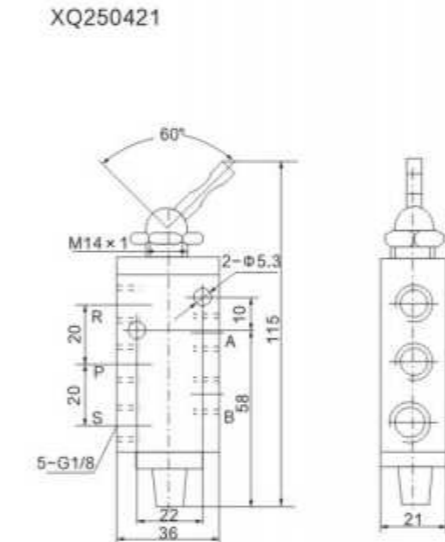
## 外形尺寸 Overall Dimension



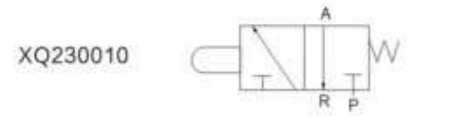
## 外形尺寸 Overall Dimension



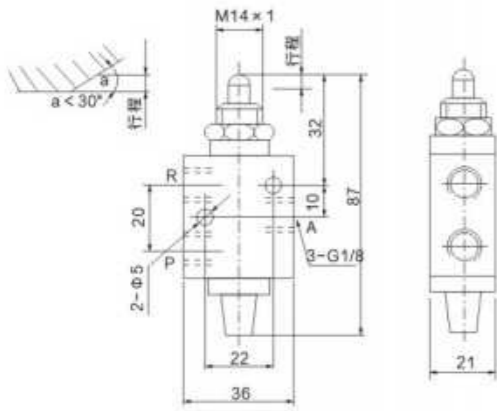
## 外形尺寸 Overall Dimension



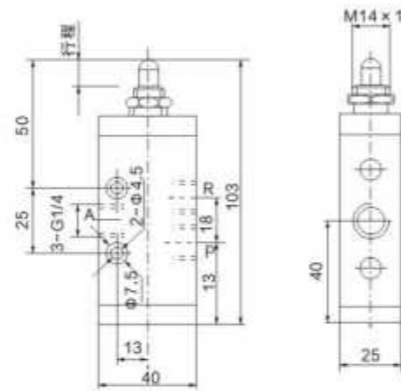
外形尺寸 Overall Dimension



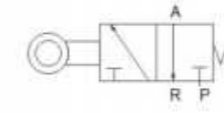
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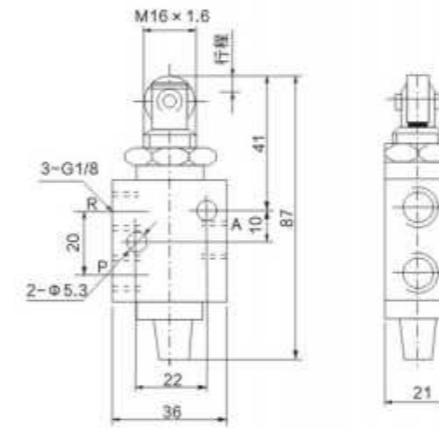
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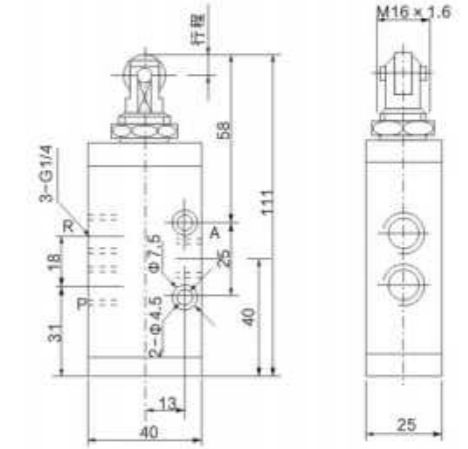
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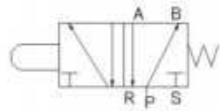


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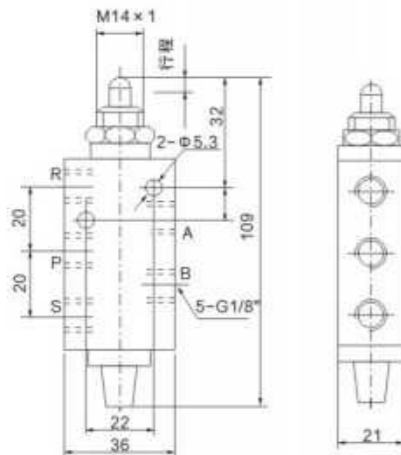


外形尺寸 Overall Dimension

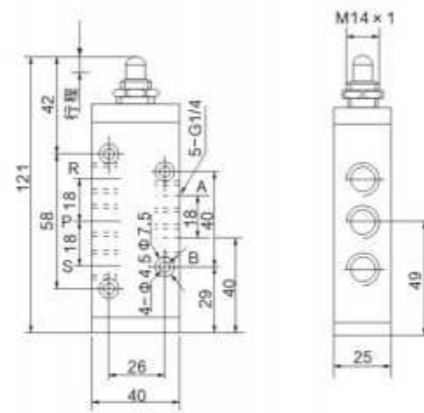
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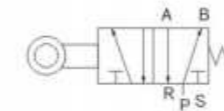


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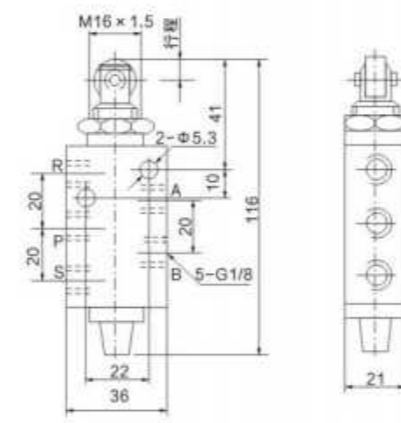


外形尺寸 Overall Dimension

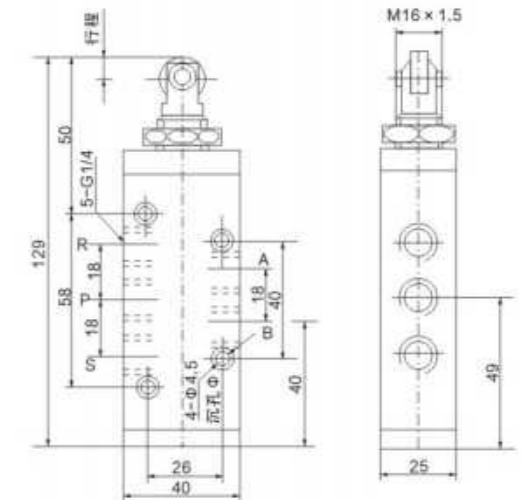
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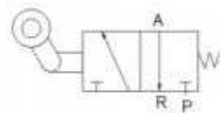


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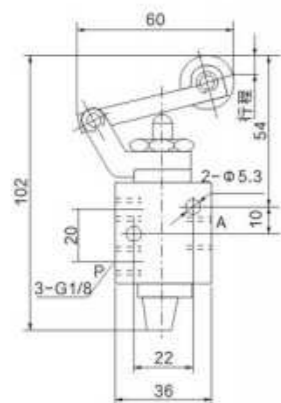


外形尺寸 Overall Dimension

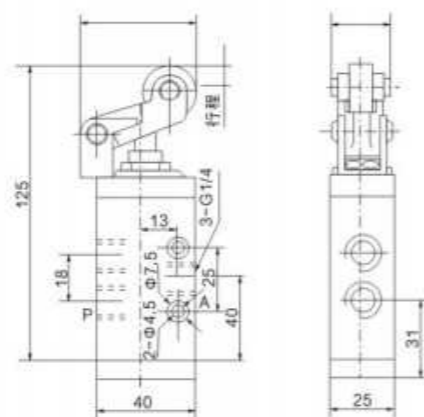
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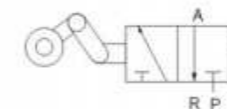
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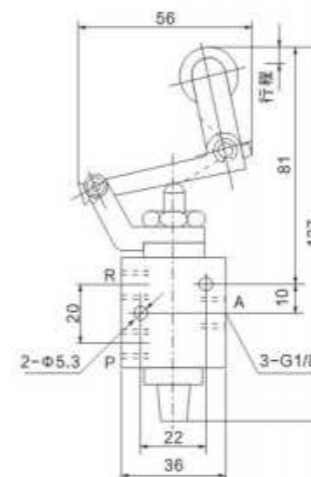
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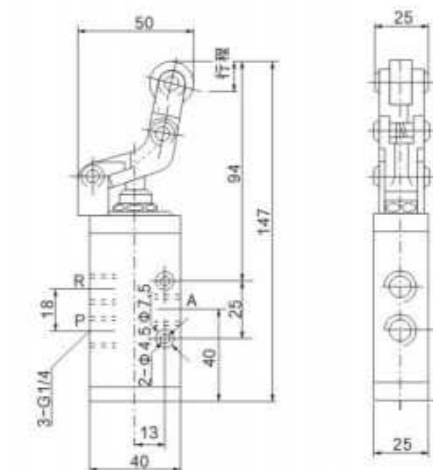
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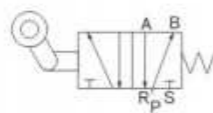


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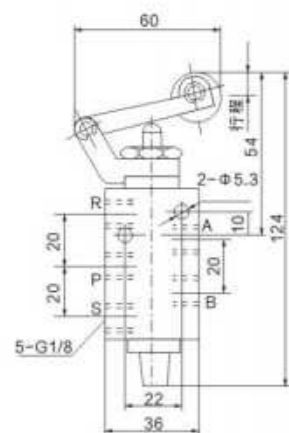


外形尺寸 Overall Dimension

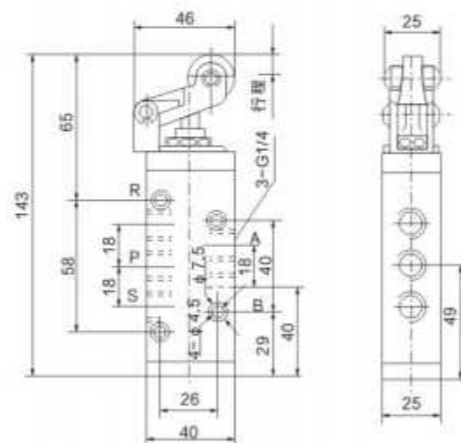
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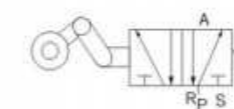
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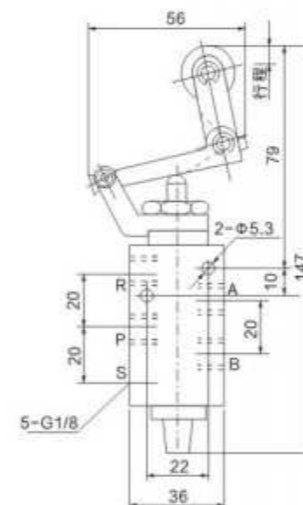
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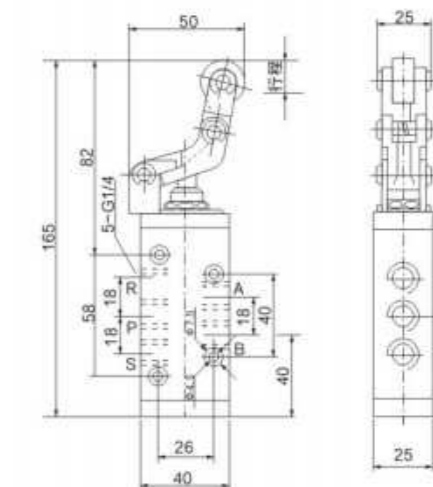
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XQ250413



XQ250613



外形尺寸 Overall Dimension

外形尺寸 Overall Dimension