

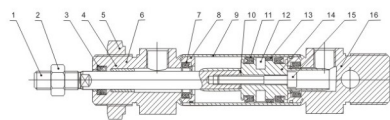
**MA6432 系列不锈钢迷你气缸 (ISO 6432)/MA6432 Series Stainless Steel Mini Cylinder (ISO 6432)**



**订购码/Ordering Code**

| MA6432                                                                                                                                                                                                                                                            | CA                                                                                                              | 20                            | 50                      | 25                                           | S                                                                                    | LB                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 系列代号<br>MA: 复动型<br>MSA: 单动型<br>MAD: 双轴复动型<br>MAC: 双轴缓冲型<br>MAJ: 双轴可调型<br>Series Code<br>MA: Double Action Type<br>MSA: Single Action Type<br>MAD: Double-shaft<br>Double Action Type<br>MAC: With Cushion Type<br>MAJ: Double-shaft and<br>Adjustable stroke type | 后盖型式<br>CA: 摆尾型<br>CM: 圆尾型<br>U: 平尾型<br>Back Cover Type<br>CA: Swiveling Tail<br>CM: Round Tail<br>U: Flat Tail | 缸径<br>Cylinder Bore<br>8~25mm | 行程<br>Stroke<br>0~100mm | 可调行程<br>Adjustable<br>Stroke Type<br>0~100mm | 磁石代号<br>空白: 标准型<br>S: 内置磁环<br>Magnet Code<br>Blank: Without Magnet<br>S: With Magnet | 固定型式<br>空白: 基本型<br>LB: 前后固定型<br>FA: 前盖固定型<br>SDB: 后盖摆尾型<br>U: 后盖固定型<br>Blank-Normal type<br>LB: Front and back fixed type<br>FA: Front cover fixed type<br>SDB: Back cover swinging type<br>U: Back cover fixed type |

**内部结构/Internal structure**



| 序号/<br>NO | 名称/<br>Designation     | 序号/<br>NO | 名称/<br>Designation       |
|-----------|------------------------|-----------|--------------------------|
| 1         | 活塞杆/Piston Rod         | 9         | 不锈钢管/Barrel              |
| 2         | 活塞杆螺母/Piston Rod Nut   | 10        | 活塞杆密封环/Piston rod O-ring |
| 3         | 前盖密封面/Front Cover Seal | 11        | 活塞O型圈/Piston O-ring      |
| 4         | 含油轴承/Oiliness Bearing  | 12        | 磁环(可选)/Magnet(Optional)  |
| 5         | 内六角螺栓/Hexagon Screw    | 13        | 耐磨环/Wear Ring            |
| 6         | 前盖/Front Cover         | 14        | 活塞/Piston                |
| 7         | 缓冲密封面/Cushion Ring     | 15        | 内六角螺栓/Hex Socket Screw   |
| 8         | 活塞O型圈/O-ring           | 16        | 后盖/Back Cover            |

**规格/Specifications**

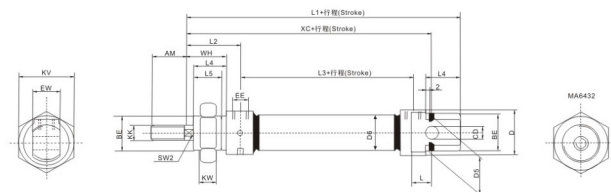
| 缸径/Cylinder diameter                         | 8                                                                          | 10  | 12  | 16  | 20  | 25 |
|----------------------------------------------|----------------------------------------------------------------------------|-----|-----|-----|-----|----|
| 工作介质/Working Medium                          | 空气/Air                                                                     |     |     |     |     |    |
| 动作型式/Motion pattern                          | 复动型或单动型/Double Action or single Action                                     |     |     |     |     |    |
| 保证耐压力/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) 1kgf/cm <sup>2</sup> (0.1MPa)             |     |     |     |     |    |
| 环境和流体温度/Environment and fluid temp           | -20~+80℃(内置磁环型:最高60℃/Internal Magnetic Install by Tach strap:Type Max:60℃) |     |     |     |     |    |
| 缓冲/Buffering                                 | 橡胶缓冲(标准)/Rubber Buffer(Standard) 气缓冲(任选)/Air Buffer(Optional)              |     |     |     |     |    |
| 活塞速度/Piston velocity                         | 50~750mm/s                                                                 |     |     |     |     |    |
| 容许动能(kg/cm)/Kinetic energy To Larence(kg/cm) | 0.2                                                                        | 0.3 | 0.4 | 0.9 | 2.7 | 4  |
| 接管口径/Port Size                               | M5×0.8 G1/8"                                                               |     |     |     |     |    |

**MA6432 系列不锈钢迷你气缸 (ISO 6432)/MA6432 Series Stainless Steel Mini Cylinder (ISO 6432)**

**行程/Stroke**

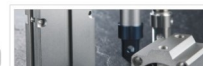
| 缸径/Bore(mm) | 标准行程/Standard stroke                        | 最长行程/Max.Stroke(mm) |
|-------------|---------------------------------------------|---------------------|
| 8           | 10,25,40,50,80,100,125,160,200              | 400                 |
| 10          | 10,25,40,50,80,100,125,160,200              | 400                 |
| 12          | 10,25,40,50,80,100,125,160,200              | 400                 |
| 16          | 10,25,40,50,80,100,125,160,200              | 400                 |
| 20          | 25,40,50,80,100,125,150,160,175,200,250,300 | 1000                |
| 25          | 25,40,50,80,100,125,150,160,175,200,250,300 | 1000                |

**外形尺寸图/Main Dimensions(mm)**



**尺寸表/Dimension Sheet**

| 内径符号/<br>Bore Symbol | AM | BE       | φCD | φD | φDS | φD6 | EE    | EW | AM | KK       | KV | KW | L  | L1    | L2 | L3   | L4 | L5 | SW2 | WH | XC  |
|----------------------|----|----------|-----|----|-----|-----|-------|----|----|----------|----|----|----|-------|----|------|----|----|-----|----|-----|
| 8                    | 12 | M12×1.25 | 4   | 15 | 15  | 12  | M5    | 8  | 12 | M4       | 19 | 6  | 6  | 78    | 22 | 34   | 12 | 10 | -   | 16 | 64  |
| 10                   | 12 | M16×1.25 | 4   | 15 | 15  | 12  | M5    | 8  | 12 | M4       | 19 | 6  | 6  | 78    | 22 | 34   | 12 | 10 | -   | 16 | 64  |
| 12                   | 16 | M16×1.5  | 6   | 20 | 20  | 16  | M5    | 12 | 16 | M6       | 24 | 8  | 9  | 89    | 28 | 38   | 17 | 15 | 5   | 22 | 75  |
| 16                   | 16 | M16×1.5  | 6   | 20 | 20  | 16  | M5    | 12 | 16 | M6       | 24 | 8  | 9  | 95    | 28 | 44   | 17 | 15 | 5   | 22 | 82  |
| 20                   | 20 | M22×1.5  | 8   | 27 | 27  | 22  | G1/8" | 16 | 20 | M8       | 32 | 11 | 12 | 112   | 32 | 51.6 | 20 | 18 | 7   | 24 | 95  |
| 25                   | 22 | M22×1.5  | 8   | 27 | 27  | 22  | G1/8" | 16 | 22 | M10×1.25 | 32 | 11 | 12 | 119.5 | 36 | 53.1 | 22 | 20 | 9   | 26 | 104 |



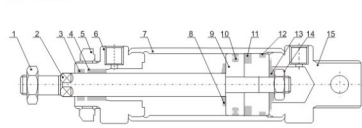
## MA 系列不锈钢迷你气缸/MA Series Stainless Steel Mini Cylinder



### 灯购码/Ordering Code

| MA                                                                                                                                                                                                                                                                                | CA                                                                                                              | 50                               | 50           | 25                                        | S                                                                                    | LB                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|--------------|-------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 型号<br>MA: 复动型<br>MSA: 单动伸出型<br>MAD: 双轴复动型<br>MACD: 双轴复动缓冲型<br>MAJ: 双轴可调型<br>Type<br>MA: Double Action Type<br>MSA: Single Extrusion Type<br>MAD: Double Shaft Double Action Type<br>MACD: Double Shaft Double Action Damping Type<br>MAJ: Double-shaft And Adjustable Stroke Type | 后盖型式<br>CA: 圆尾型<br>CM: 圆尾型<br>U: 平尾型<br>Back Cover Type<br>CA: Swiveling Tail<br>CM: Round Tail<br>U: Flat Tail | 缸径<br>Cylinder Bore<br>16mm~40mm | 行程<br>Stroke | 可调行程<br>Adjustable Stroke Type<br>0~100mm | 磁石代号<br>空白: 标准型<br>S: 内置磁石<br>Magnet Code<br>Blank: Without Magnet<br>S: With Magnet | 固定型式<br>空白: 基本型<br>LB: 前盖固定型<br>FA: 前盖固定型<br>SDB: 后盖摇摆型<br>U: 后盖固定型<br>Fixed Type<br>Blank: Normal type<br>LB: Front and back fixed type<br>FA: Front cover fixed type<br>SDB: Back cover swinging type<br>U: Back cover fixed type |

### 内部结构/Internal structure



| 序号<br>NO | 名称<br>Designation           | 序号<br>NO | 名称<br>Designation       |
|----------|-----------------------------|----------|-------------------------|
| 1        | 活塞杆螺母/Piston Rod Nut        | 2        | 活塞杆/Piston Rod          |
| 3        | 前盖密封圈/Front Cover Seal Ring | 4        | 含油轴承/Oiliness Bearing   |
| 5        | 前盖螺母/Front Cover Nut        | 6        | 前盖/ Front Cover         |
| 7        | 不锈钢管/Stainless Steel Tube   | 8        | 防撞垫片/Anti-crash Cushion |
| 9        | 活塞/Piston                   | 10       | 活塞O型圈/Piston O-Ring     |
| 11       | 磁铁(可选)/Magnet(Optional)     | 12       | 耐磨环/Wear Ring           |
| 13       | 缓冲密封圈/Seal Cushion          | 14       | 内六角螺栓/Hexagon screw     |
| 15       | 后盖/Back Cover               |          |                         |

### 规格/Specifications

| 缸径(Bore/mm)                        | 16                                                      | 20 | 25 | 32 | 40 |
|------------------------------------|---------------------------------------------------------|----|----|----|----|
| 动作形式/Motion pattern                | 复动型或单动型/Double Action or Single Action                  |    |    |    |    |
| 工作介质/Working Medium                | 空气/Air                                                  |    |    |    |    |
| 固定型式/Fixed Type                    | 基本型/Normal Type LB型/ Type FA型/ Type SDB型/ Type U型/ Type |    |    |    |    |
| 使用压力范围/Operating Voltage Range     | 0.1~0.9MPa                                              |    |    |    |    |
| 保压压力/Ensured Pressure Resistance   | 1.35MPa                                                 |    |    |    |    |
| 使用温度范围/Operating Temperature Range | -5~70℃                                                  |    |    |    |    |
| 使用速度范围/Operating Speed Range       | 50~800mm/s                                              |    |    |    |    |
| 缓冲型式/标准型/Standard Type             | 防撞垫片/Anti-crash cushion                                 |    |    |    |    |
| Buffer Type 缓冲型/Damping Type       | 可调式缓冲/Adjustable cushion                                |    |    |    |    |
| 接管口径/Pipe Size                     | M5×0.8 G1/8"                                            |    |    |    |    |

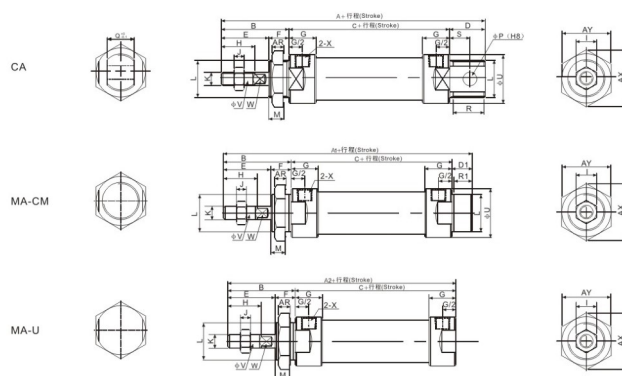
我公司还可提供罐盖上建出气孔为平的产品。如果您需要此类产品，请特别说明。  
Our Company can also make flat for cylinder covers inlet and outlet position. If you require this, it should be specified.

## MA 系列不锈钢迷你气缸/MA Series Stainless Steel Mini Cylinder

### 行程/Stroke

| 缸径<br>Bore(mm) | 标准行程/Standard Stroke |    |    |    |     |     |     |     |     |     |     |     |     |     |     |  | 最大行程<br>Max Stroke | 允许行程<br>Permissible Stroke |
|----------------|----------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--------------------|----------------------------|
| 16             | 25                   | 50 | 75 | 80 | 100 | 125 | 160 | 175 | 200 |     |     |     |     |     |     |  | 300                | 500                        |
| 20             | 25                   | 50 | 75 | 80 | 100 | 125 | 160 | 175 | 200 | 250 | 300 |     |     |     |     |  | 500                | 650                        |
| 25             | 25                   | 50 | 75 | 80 | 100 | 125 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |  | 500                | 650                        |
| 32             | 25                   | 50 | 75 | 80 | 100 | 125 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |  | 500                | 650                        |
| 40             | 25                   | 50 | 75 | 80 | 100 | 125 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |  | 500                | 650                        |

### 外形尺寸图/Main Dimensions(mm)

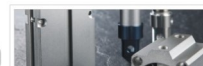


### 尺寸表/Dimension Sheet

| 内径/符号<br>Bore/Symbol | A   | A1  | A2  | B  | C  | D  | D1 | E  | F  | G    | H  | I  | J | K        |
|----------------------|-----|-----|-----|----|----|----|----|----|----|------|----|----|---|----------|
| 16                   | 114 | 114 | 98  | 38 | 60 | 16 | 16 | 22 | 16 | 10   | 16 | 10 | 5 | M5×1     |
| 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 |

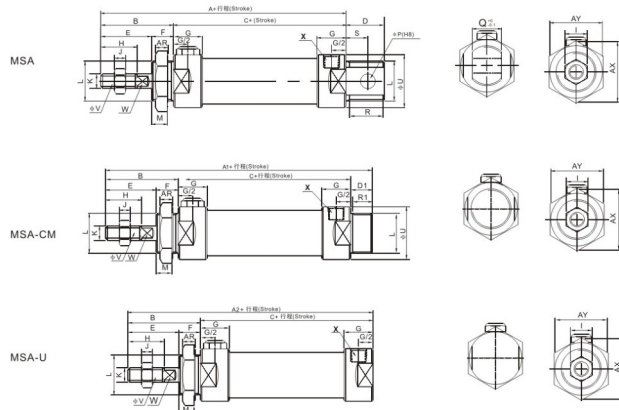
  

| 内径/符号<br>Bore/Symbol | L       | M  | P  | Q  | R  | R1 | S  | U    | V  | W  | X     | AR | AX | AY   |
|----------------------|---------|----|----|----|----|----|----|------|----|----|-------|----|----|------|
| 16                   | M16×1.5 | 14 | 6  | 12 | 14 | 14 | 9  | 21   | 6  | 5  | M5    | 6  | 24 | 27.5 |
| 20                   | M22×1.5 | 12 | 8  | 16 | 19 | 10 | 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   |



MA 系列不锈钢迷你气缸/MA Series Stainless Steel Mini Cylinder

● 外形尺寸图/Main Dimensions(mm)



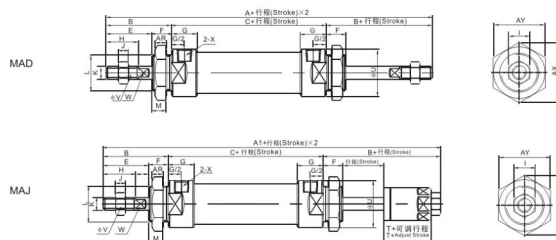
MA 系列不锈钢迷你气缸/MA Series Stainless Steel Mini Cylinder

● 尺寸表/Dimension Sheet

| 符号/Symbol         | A    |        | A1   |        | A2   |        | B  | C    |        | D  | D1 | E  | F  | G  | H  | I  | J |
|-------------------|------|--------|------|--------|------|--------|----|------|--------|----|----|----|----|----|----|----|---|
| 缸径/行程/Bore/Stroke | 0-50 | 51-100 | 0-50 | 51-100 | 0-50 | 51-100 |    | 0-50 | 51-100 |    |    |    |    |    |    |    |   |
| 16                | 114  | 139    | 128  | 153    | 98   | 123    | 38 | 60   | 85     | 16 | 16 | 22 | 16 | 10 | 16 | 10 | 5 |
| 20                | 137  | 162    | 134  | 159    | 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    | 136  | 161    | 120  | 145    | 44 | 76   | 101    | 27 | 14 | 30 | 14 | 16 | 22 | 17 | 6 |
| 40                | 149  | 174    | 122  | 144    | 122  | 147    | 46 | 76   | 101    | 27 | 14 | 32 | 14 | 22 | 24 | 17 | 7 |

| 内径/符号/Inside Diameter/Symbol | K        | L       | M  | P  | Q  | R  | R1 | S  | U    | V  | W  | X     | AR | AX | AY |
|------------------------------|----------|---------|----|----|----|----|----|----|------|----|----|-------|----|----|----|
| 16                           | M6×1     | M16×1.5 | 14 | 6  | 12 | 14 | 14 | 9  | 21   | 6  | 5  | M5    | 6  | 25 | 22 |
| 20                           | M8×1.25  | M22×1.5 | 10 | 8  | 16 | 19 | 10 | 12 | 27   | 8  | 6  | G1/8" | 7  | 33 | 29 |
| 25                           | M10×1.25 | M22×1.5 | 12 | 8  | 16 | 19 | 12 | 12 | 30   | 10 | 8  | G1/8" | 7  | 33 | 29 |
| 32                           | M10×1.25 | M24×2.0 | 12 | 10 | 16 | 25 | 12 | 15 | 35   | 12 | 10 | G1/8" | 8  | 37 | 32 |
| 40                           | M12×1.25 | M30×2.0 | 12 | 12 | 20 | 25 | 12 | 15 | 41.6 | 16 | 14 | G1/8" | 9  | 47 | 41 |

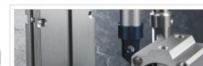
● 外形尺寸图/Main Dimensions(mm)



● 尺寸表/Dimension Sheet

| 内径/符号/Inside Diameter/Symbol | A   | A1  | B  | C  | E  | F  | G  | H  | I  | J | K        |
|------------------------------|-----|-----|----|----|----|----|----|----|----|---|----------|
| 16                           | 136 | 135 | 38 | 60 | 22 | 16 | 10 | 16 | 10 | 5 | M6×1     |
| 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 | 14 | 17 | 7 | M12×1.25 |

| 内径/符号/Inside Diameter/Symbol | L       | M  | U    | V  | W  | X     | AR | AX | AY | T  |
|------------------------------|---------|----|------|----|----|-------|----|----|----|----|
| 16                           | M16×1.5 | 14 | 21   | 6  | 5  | M5    | 6  | 25 | 22 | 16 |
| 20                           | M22×1.5 | 10 | 29   | 9  | 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 | 12 | G1/8" | 9  | 47 | 41 | 21 |



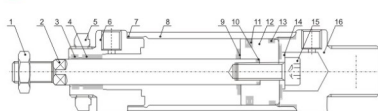
### MAL 系列铝合金迷你气缸/MAL Series Aluminum Alloy Mini Cylinder



#### 灯牌码/Ordering Code

| 型号                                                                                                                                                                                                                                                 | 后盖型式                                                                                     | 缸径        | 行程      | 可调行程    | 磁石代号                                               | 固定型式                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------|---------|---------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MAL: 复动型<br>MSAL: 单动伸出型<br>MALD: 双轴复动型<br>MALC: 双轴缓冲型<br>MALU: 双轴可调型<br>Type<br>MAL: Double Action type<br>MSAL: Single Extrusion Type<br>MALD: Dual Double Action Type<br>MALC: With Cushion Type<br>MALU: Double-shaft<br>Adjustable Stroke Type | 空白: 薄尾型<br>CM: 圆尾型<br>U: 平尾型<br>Blank: Swivelling Tail<br>CM: Round Tail<br>U: Flat Tail | 16mm-40mm | 0-100mm | 0-100mm | S: 内置磁环<br>Blank: Without Magnet<br>S: With Magnet | 空白: 基本型<br>LB: 前后固定型<br>FA: 前置固定型<br>SDB: 后置缓冲型<br>Fixed Type<br>Blank: Normal type<br>LB: Front and back fixed type<br>FA: Front cover fixed type<br>SDB: Back cover swinging type |

#### 内部结构/Internal structure



| 序号/NO | 名称/Designation              | 序号/NO | 名称/Designation           |
|-------|-----------------------------|-------|--------------------------|
| 1     | 活塞杆螺母/Piston Rod Nut        | 2     | 活塞杆/Piston Rod           |
| 3     | 前盖密封环/Front Cover Seal Ring | 4     | 全油轴承/Oiliness Bearing    |
| 5     | 前盖螺母/Front Cover Nut        | 6     | 前盖/Front Cover           |
| 7     | 管壁O型圈/Tube O-ring           | 8     | 铝管/Aluminum Tube         |
| 9     | 防撞垫片/Anti-crash Cushion     | 10    | 活塞杆O型圈/Piston rod O-Ring |
| 11    | 活塞O型圈/Piston O-Ring         | 12    | 活塞/Piston                |
| 13    | 耐磨环/Wear Ring               | 14    | 缓冲密封环/Seal Cushion       |
| 15    | 内六角螺栓/Hexagon screw         | 16    | 后盖/Back Cover            |

#### 行程/Stroke

| 缸径/Bore(mm)                        | 16                                          | 20                       | 25 | 32 | 40    |
|------------------------------------|---------------------------------------------|--------------------------|----|----|-------|
| 动作形式/Action Pattern                | 复动型或单动式/Double Action or Single Action      |                          |    |    |       |
| 工作介质/Working Medium                | 空气/Air                                      |                          |    |    |       |
| 固定型式/Fixed Type                    | 基本型/Normal Type LB型/Type FA型/Type SDB型/Type |                          |    |    |       |
| 使用压力范围/Operating Voltage Range     | 0.1~0.9MPa                                  |                          |    |    |       |
| 保证耐压/Ensured Pressure Resistance   | 1.35MPa                                     |                          |    |    |       |
| 使用温度范围/Operating Temperature Range | -5~70℃                                      |                          |    |    |       |
| 使用速度范围/Operating Speed Range       | 30~800mm/s                                  |                          |    |    |       |
| 缓冲型式/Buffer Type                   | 标准型/Standard Type                           | 防撞垫片/Anti-crash cushion  |    |    |       |
| 缓冲型式/Buffer Type                   | 缓冲型/Damping Type                            | 可调节缓冲/Adjustable cushion |    |    |       |
| 接管口径/Port Size                     | M5×0.8                                      | G1/8"                    |    |    | G1/4" |

我公司还可提供端盖上进出气孔为平的产品, 如果您需要此类产品, 请特别说明。

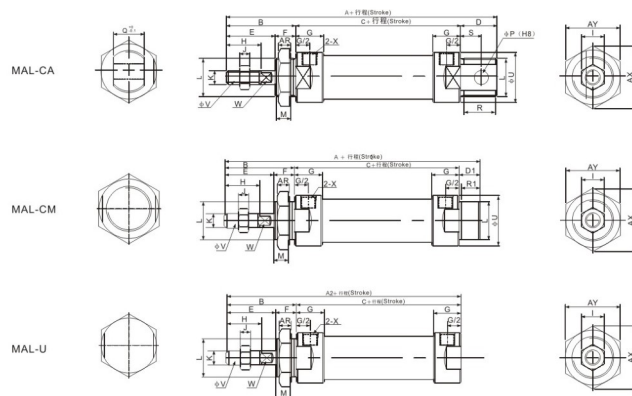
Our Company can also make flat for cylinder covers inlet and outlet position. If you require this, it should be specified.

### MAL系列铝合金迷你气缸/MAL Series Aluminum Alloy Mini Cylinder

#### 行程/Stroke

| 缸径/Bore(mm) | 16 | 25 | 50 | 75 | 80 | 100 | 125 | 160 | 175 | 200 | 标准行程/Standard Stroke | 最大行程/Max Stroke | 允许行程/Permissible Stroke |
|-------------|----|----|----|----|----|-----|-----|-----|-----|-----|----------------------|-----------------|-------------------------|
| 16          |    |    |    |    |    |     |     |     |     |     |                      | 300             | 500                     |
| 20          |    |    |    |    |    |     |     |     |     |     |                      | 500             | 650                     |
| 25          |    |    |    |    |    |     |     |     |     |     |                      | 500             | 650                     |
| 32          |    |    |    |    |    |     |     |     |     |     |                      | 500             | 650                     |
| 40          |    |    |    |    |    |     |     |     |     |     |                      | 500             | 650                     |

#### 外形尺寸图/Overall Dimensions(mm)

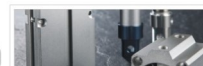


#### 尺寸表/Dimension Sheet

| 内径/符号<br>Bore/Symbol | A   | A1  | A2  | B  | C  | D  | D1 | E  | F  | G  | H  | I  | J | K        |
|----------------------|-----|-----|-----|----|----|----|----|----|----|----|----|----|---|----------|
| 16                   | 114 | 114 | 98  | 38 | 60 | 16 | 16 | 22 | 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 | 128 | 114 | 44 | 70 | 27 | 14 | 30 | 14 | 16 | 22 | 17 | 6 | M10×1.25 |
| 40                   | 165 | 152 | 138 | 45 | 92 | 27 | 14 | 32 | 14 | 22 | 24 | 17 | 7 | M12×1.25 |

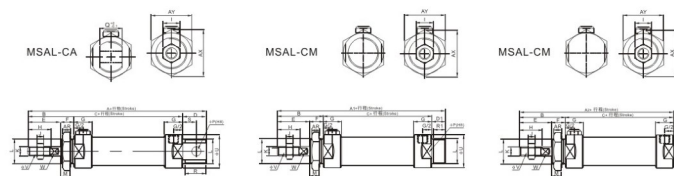
  

| 内径/符号<br>Bore/Symbol | L       | M  | P  | Q  | R  | R1 | S  | U    | V  | W  | X     | AR | AX | AY |
|----------------------|---------|----|----|----|----|----|----|------|----|----|-------|----|----|----|
| 16                   | M16×1.5 | 8  | 6  | 12 | 14 | 13 | 9  | 21   | 6  | 5  | M5    | 6  | 25 | 22 |
| 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  | 37 | 41 |



## MAL 系列铝合金迷你气缸/MAL Series Aluminum Alloy Mini Cylinder

### ● 外形尺寸图/Main Dimensions(mm)

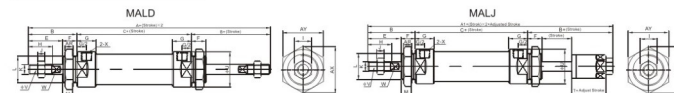


### ● 尺寸表/Dimension Sheet

| 符号/Symbol         | A    |        | A1   |        | A2   |        | B  | C    |        | D  | D1 | E  | F  | G  | H  | I  | J |
|-------------------|------|--------|------|--------|------|--------|----|------|--------|----|----|----|----|----|----|----|---|
| 内径/行程/Bore/Stroke | 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/Inside Diameter/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 | 12 | 12 | 34   | 10 | 8  | G1/8" | 7  | 33 | 29 |
| 32                           | M10×1.25 | M24×2.0 | 12 | 10 | 16 | 25 | 12 | 15 | 39.5 | 12 | 10 | G1/8" | 8  | 37 | 32 |
| 40                           | M12×1.25 | M30×2.0 | 12 | 12 | 20 | 25 | 12 | 15 | 49.5 | 16 | 14 | G1/4" | 9  | 47 | 41 |

### ● 外形尺寸图/Main Dimensions(mm)



### ● 尺寸表/Dimension Sheet

| 内径/符号/Inside Diameter/Symbol | A   | A1  | B  | C  | E  | F  | G  | H  | I  | I | K        |
|------------------------------|-----|-----|----|----|----|----|----|----|----|---|----------|
| 20                           | 150 | 147 | 40 | 70 | 28 | 12 | 16 | 20 | 12 | 6 | M8×1.25  |
| 25                           | 158 | 155 | 44 | 70 | 30 | 14 | 16 | 22 | 17 | 6 | M10×1.25 |
| 32                           | 158 | 155 | 44 | 70 | 30 | 14 | 16 | 22 | 17 | 6 | M10×1.25 |
| 40                           | 184 | 180 | 46 | 92 | 32 | 14 | 22 | 24 | 17 | 7 | M12×1.25 |

| 内径/符号/Inside Diameter/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 |

## SDA 系列薄型气缸/SDA Series Thin Type(Compact) Cylinder



### ● 订购码/Ordering Code

| SDA                                                                                                                                                                                                                                                                                     | 20                                | 30           | 5                                                | S                                                                                      | B                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|--------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 系列代号<br>SDA: 复动型<br>SSA: 单动伸出型<br>STA: 单动吸入型<br>SDAD: 双轴复动型<br>SDAJ: 复动可调行程型<br>Series Code<br>SDA: Double Action Type<br>SSA: Single Action Extrusion Type<br>STA: Single Action Drawing-in Type<br>SDAD: Double-shaft Double Action Type<br>SDAJ: Double-shaft Adjustable Stroke Type | 缸径<br>Cylinder Bore<br>12mm-100mm | 行程<br>Stroke | 可调行程<br>Adjustable Stroke<br>5mm<br>15mm<br>25mm | 磁石代号<br>空白: 标准型<br>S: 内置磁环<br>Magnet Code<br>Blank: Without Magnet<br>S: Attach Magnet | 牙型<br>空白: 内螺纹<br>B: 外螺纹<br>N: 无螺纹<br>Cog Type<br>Blank: Inner Thread<br>B: Outer Thread<br>N: No Thread |

### ● 内部结构/Internal structure

| 序号<br>NO. | 名称<br>Designation           | 序号<br>NO. | 名称<br>Designation       |
|-----------|-----------------------------|-----------|-------------------------|
| 1         | 后盖/Back cover               | 2         | C型扣环/Type C buckle ring |
| 3         | 前后盖O令/O-ring                | 4         | 防撞垫片/Anti-crash cushion |
| 5         | 活塞/Piston                   | 6         | 活塞O令/Piston O-ring      |
| 7         | 防撞垫片/Anti-crash cushion     | 8         | 缸筒/Barrel               |
| 9         | 前盖密封圈/Front cover seal ring | 10        | 前盖/Front cover          |
| 11        | 活塞杆/Piston rod              | 12        | 活塞杆螺母/Piston Rod Nut    |

| 序号<br>NO. | 名称<br>Designation       | 序号<br>NO. | 名称<br>Designation       |
|-----------|-------------------------|-----------|-------------------------|
| 1         | 前盖/Back cover           | 2         | C型扣环/Type C buckle ring |
| 3         | 防撞垫片/Anti-crash cushion | 4         | 活塞/Piston               |
| 5         | 活塞O令/Piston O-ring      | 6         | 压缩弹簧 /Compressed spring |
| 7         | 缸筒/Barrel               | 8         | 消音器/Silencer            |
| 9         | 前后盖O令/Cover O-ring      | 10        | 前盖/Front cover          |
| 11        | 活塞杆/Piston rod          |           |                         |

| 序号<br>NO. | 名称<br>Designation       | 序号<br>NO. | 名称<br>Designation           |
|-----------|-------------------------|-----------|-----------------------------|
| 1         | 后盖/Back cover           | 2         | C型扣环/Type C buckle ring     |
| 3         | 前后盖O令/Cover O-ring      | 4         | 消音器/Silencer                |
| 5         | 缸筒/Barrel               | 6         | 压缩弹簧 /Compressed spring     |
| 7         | 活塞/Piston               | 8         | 活塞O令/Piston O-ring          |
| 9         | 防撞垫片/Anti-crash cushion | 10        | 前盖密封圈/Front cover seal ring |
| 11        | 前盖/Front cover          | 12        | 活塞杆/Piston rod              |

