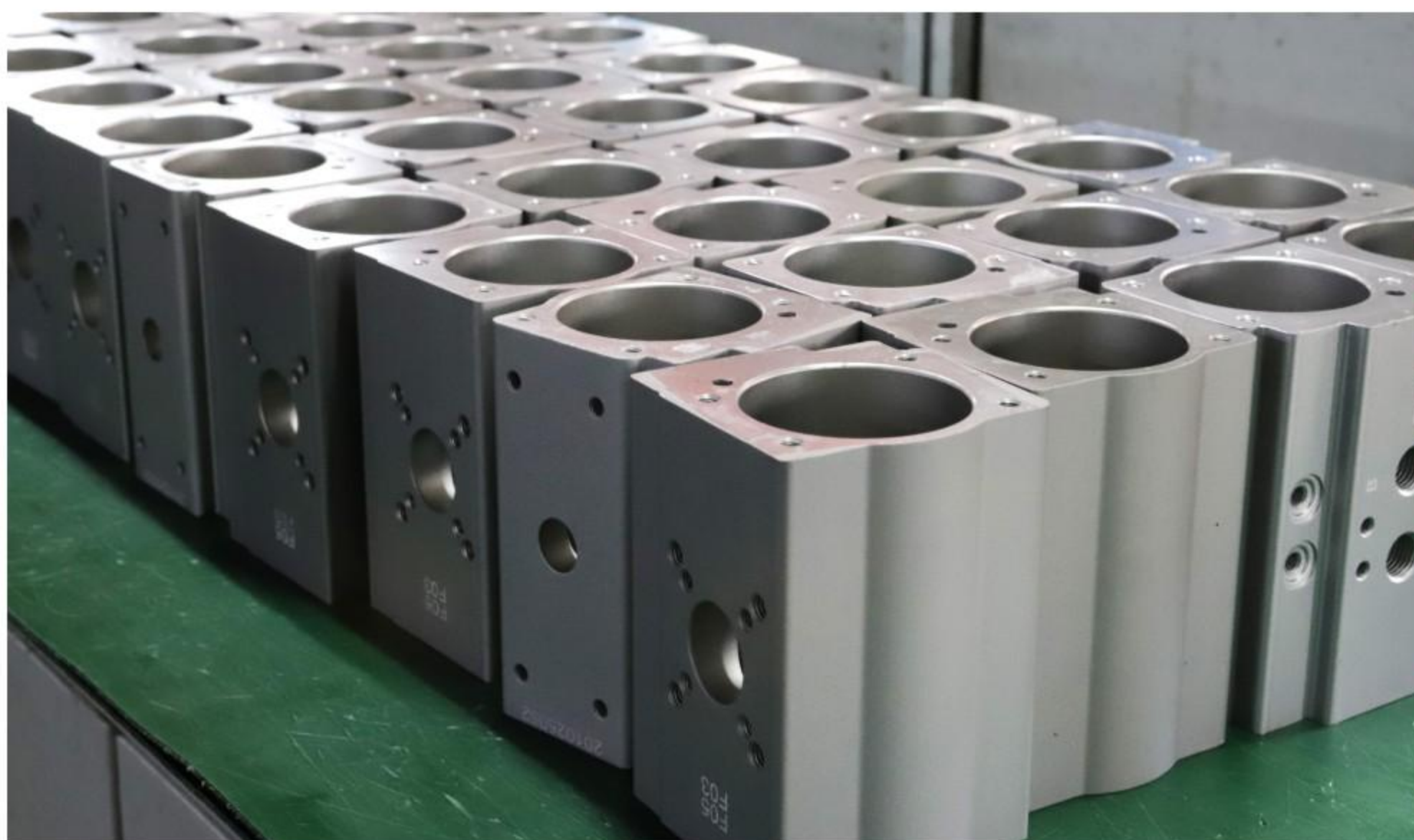
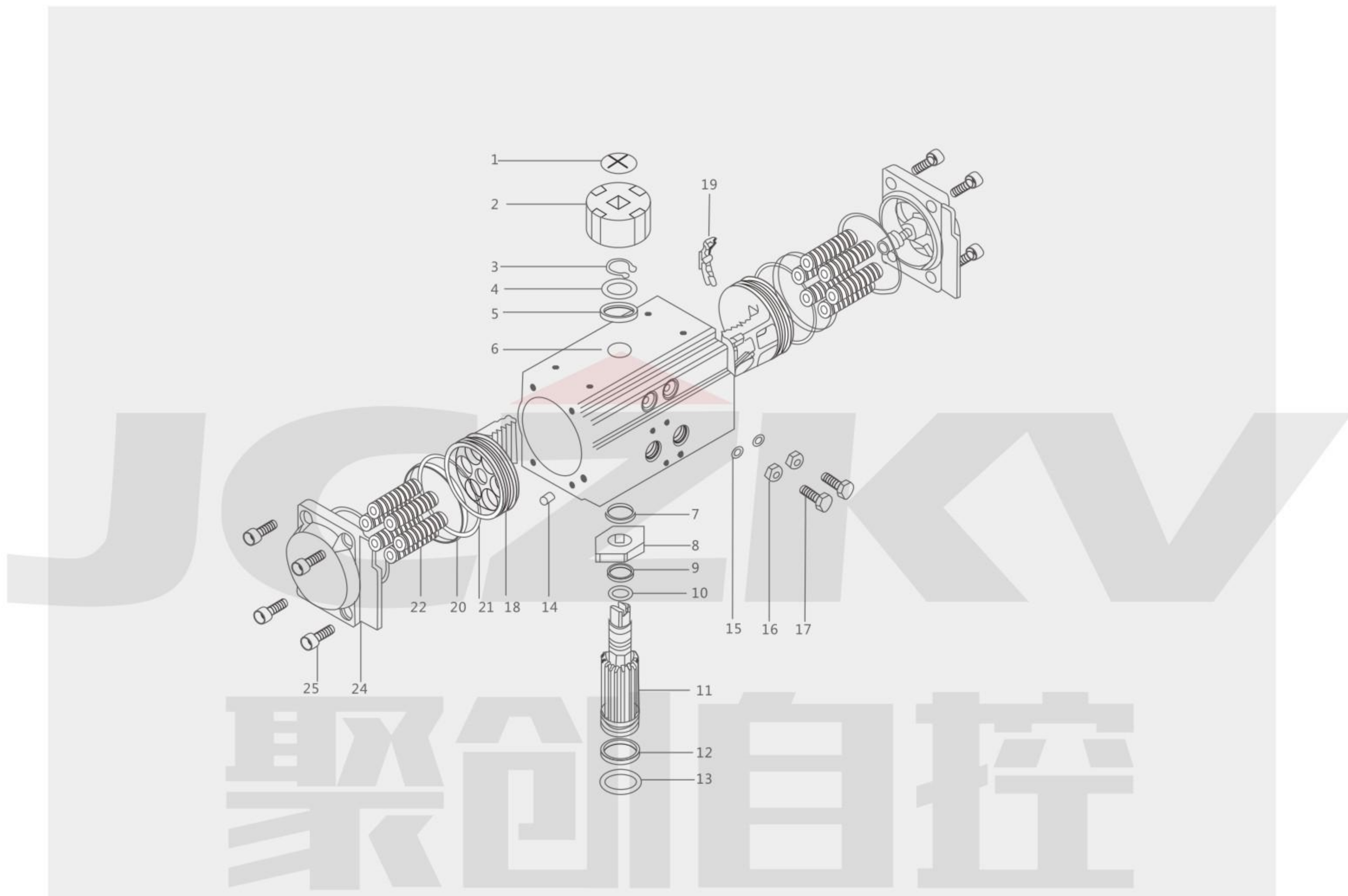


## 外观尺寸General Drawing



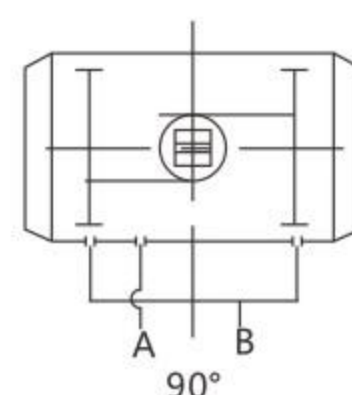
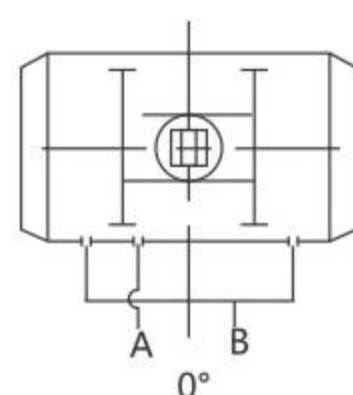
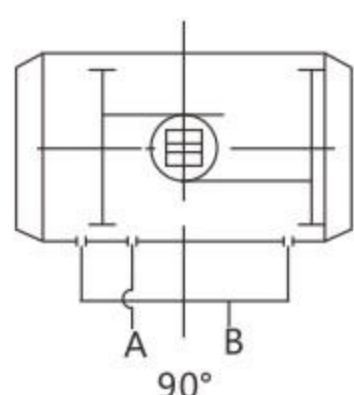
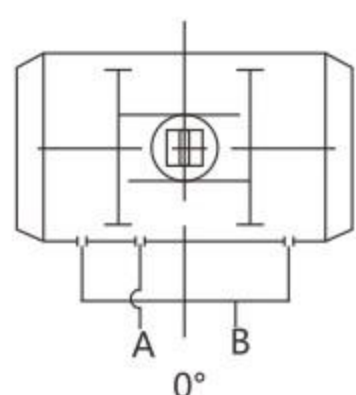


| 序号NO. | 名称Name                             | 数量Quantity | 材料Material                       | 防腐处理Anti-corrosion Treatment | 可选材料Optional Materials           |
|-------|------------------------------------|------------|----------------------------------|------------------------------|----------------------------------|
| 1     | 指示器螺钉<br>Indicator Screw           | 1          | 塑料<br>Plastic                    | -                            | -                                |
| 2     | 指示器<br>Indicator                   | 1          | 塑料<br>Plastic                    | -                            | -                                |
| 3     | 轴挡<br>Axle Block                   | 1          | 不锈钢<br>Stainless Steel           | -                            | -                                |
| 4     | 金属垫片<br>Metal Gasket               | 1          | 不锈钢<br>Stainless Steel           | -                            | -                                |
| 5     | 外垫片<br>Outer Gasket                | 1          | 工程塑料<br>Engineering Plastics     | -                            | -                                |
| 7     | 内垫片<br>Inner Gasket                | 1          | 工程塑料<br>Engineering Plastics     | -                            | -                                |
| 10    | 上轴支撑圈<br>Upper Shaft Support Ring  | 1          | 工程塑料<br>Engineering Plastics     | -                            | -                                |
| 12    | 下轴支撑圈<br>Lower Shaft Support Ring  | 1          | 工程塑料<br>Engineering Plastics     | -                            | -                                |
| 20    | 活塞支撑圈<br>Piston Support Ring       | 1          | 工程塑料<br>Engineering Plastics     | -                            | -                                |
| 9     | 上轴O型圈<br>Upper Shaft O-ring        | 1          | 丁腈橡胶<br>Nitrile Rubber           | -                            | 氟橡胶/硅橡胶<br>Viton/silicone rubber |
| 13    | 下轴O型圈<br>Lower Shaft O-ring        | 1          | 丁腈橡胶<br>Nitrile Rubber           | -                            | 氟橡胶/硅橡胶<br>Viton/silicone rubber |
| 15    | 调节螺栓O型圈<br>Adjusting Bolt O-ring   | 2          | 丁腈橡胶<br>Nitrile Rubber           | -                            | 氟橡胶/硅橡胶<br>Viton/silicone rubber |
| 21    | 活塞O型圈<br>Piston O-ring             | 2          | 丁腈橡胶<br>Nitrile Rubber           | -                            | 氟橡胶/硅橡胶<br>Viton/silicone rubber |
| 23    | 端盖O型圈<br>End Cap O-ring            | 2          | 丁腈橡胶<br>Nitrile Rubber           | -                            | 氟橡胶/硅橡胶<br>Viton/silicone rubber |
| 14    | 赛头<br>Match Head                   | 2          | 丁腈橡胶<br>Nitrile Rubber           | -                            | 氟橡胶/硅橡胶<br>Viton/silicone rubber |
| 16    | 螺母<br>Nut                          | 2          | 不锈钢<br>Stainless Steel           | -                            | -                                |
| 17    | 调节螺栓<br>Adjusting Bolt             | 2          | 不锈钢<br>Stainless Steel           | -                            | -                                |
| 18    | 活塞<br>Piston                       | 2          | 压铸铝合金<br>Die-cast Aluminum Alloy | 硬质氧化<br>Hard Oxidation       | -                                |
| 19    | 活塞导板<br>Piston Guide               | 2          | 工程塑料<br>Engineering Plastics     | -                            | -                                |
| 6     | 缸体<br>Cylinder                     | 1          | 铝合金<br>Aluminum Alloy            | 硬质氧化<br>Hard Oxidation       | -                                |
| 8     | 调节块<br>Adjustment Block            | 1          | 碳钢<br>Carbon Steel               | 镀镍<br>Nickel Plated          | -                                |
| 11    | 轴<br>Axis                          | 1          | 碳钢<br>Carbon Steel               | 镀镍<br>Nickel Plated          | 不锈钢<br>stainless steel           |
| 22    | 弹簧<br>Spring                       | 0-12       | 弹簧钢<br>Spring Steel              | 浸漆<br>Dipping                | -                                |
| 24    | 端盖<br>End Cap                      | 2          | 压铸铝合金<br>Die-cast Aluminum Alloy | 粉末喷涂<br>Powder Coating       | -                                |
| 25    | 端盖紧固螺栓<br>End Cover Fastening Bolt | 8          | 不锈钢<br>Stainless Steel           | -                            | -                                |



## 工作原理

### 双作用执行器 Double Acting Actuator



A口进气，压缩空气推动活塞向外运动，使执行器输出轴逆时针旋转（0°-90°），B口排气。

B口进气，压缩空气推动活塞向内运动，使执行器输出轴顺时针旋转（90°-0°），A口排气。

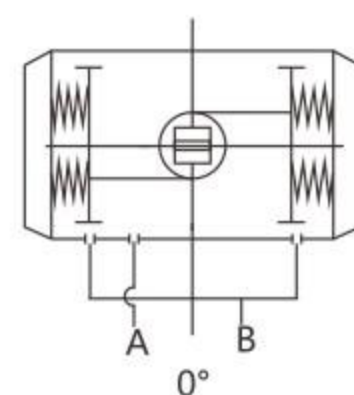
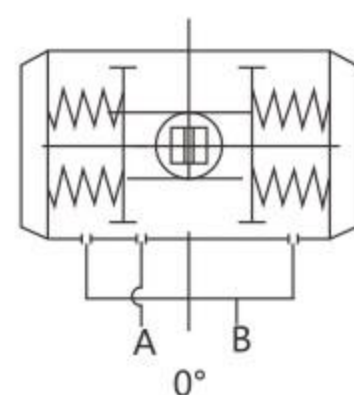
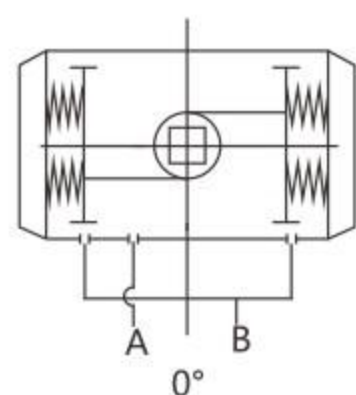
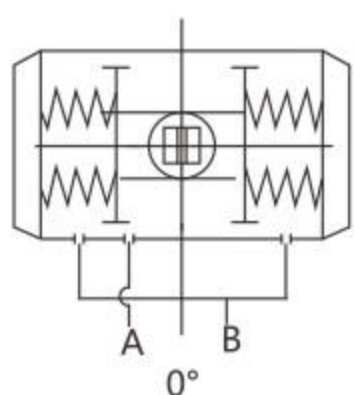
A port enters into the air, the compressed air pushes the piston outward to make the actuator output shaft rotate counterclockwise (0°-90°), and the B port exhausts. B port intakes, the compressed air pushes the piston inward to make the actuator output shaft rotate clockwise (90°-0°), and the A port exhausts.

A口进气，压缩空气推动活塞向外运动，使执行器输出轴顺时针旋转（0°-90°），B口排气。

B口进气，压缩空气推动活塞向内运动，使执行器输出轴逆时针旋转（90°-0°），A口排气。

A port enters the air, and the compressed air pushes the piston outward to make the actuator output shaft rotate clockwise (0°-90°), and the B port exhausts. B port intakes, compressed air pushes the piston inward to make the actuator output shaft rotate counterclockwise (90°-0°), A port exhausts.

### 单作用执行器 Single-acting Actuator



A口进气，压缩空气克服弹簧力，推动活塞向外运动，执行器输出轴逆时针旋转（0°-90°），B口排气；执行器失气，活塞在弹簧力的作用下向内运动，执行器输出轴顺时针转动（90°-0°），A口排气。

A port enters, the compressed air overcomes the spring force and pushes the piston outwards, the actuator output shaft rotates counterclockwise (0°-90°), and the B port exhausts; the actuator loses air, and the piston moves downwards under the action of the spring force. Inward movement, the output shaft of the actuator rotates clockwise (90°-0°), and the A port is exhausted.

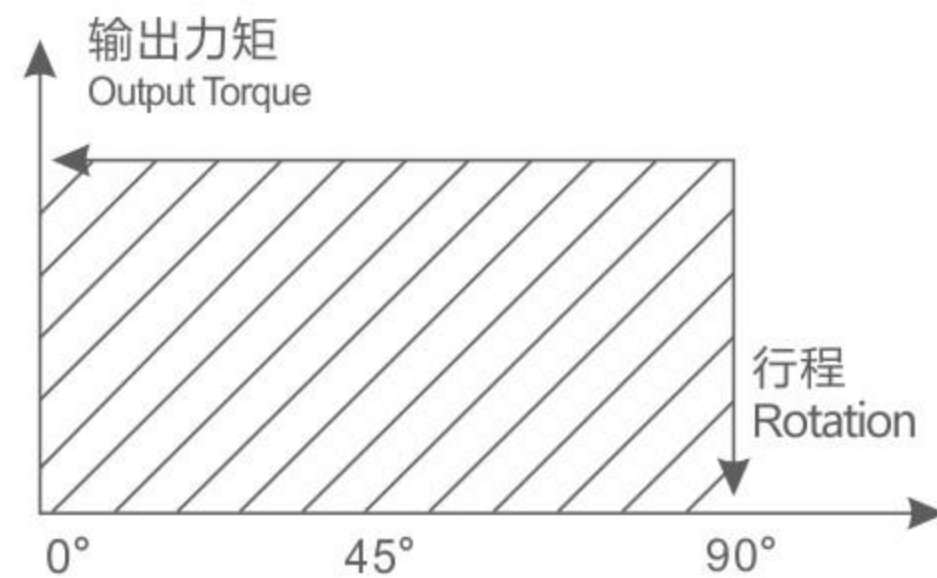
A口进气，压缩空气克服弹簧力，推动活塞向外运动，执行器输出轴顺时针旋转（0°-90°），B口排气；执行器失气，活塞在弹簧力的作用下向内运动，执行器输出轴逆时针转动（90°-0°），A口排气。

A port enters, the compressed air overcomes the spring force and pushes the piston outwards, the actuator output shaft rotates clockwise (0°-90°), and the B port exhausts; the actuator loses air, and the piston moves downwards under the action of the spring force. Inward movement, the output shaft of the actuator rotates counterclockwise (90°-0°), and the A port is exhausted.



# 工作原理

## 双作用输出力矩 Double acting output Torque



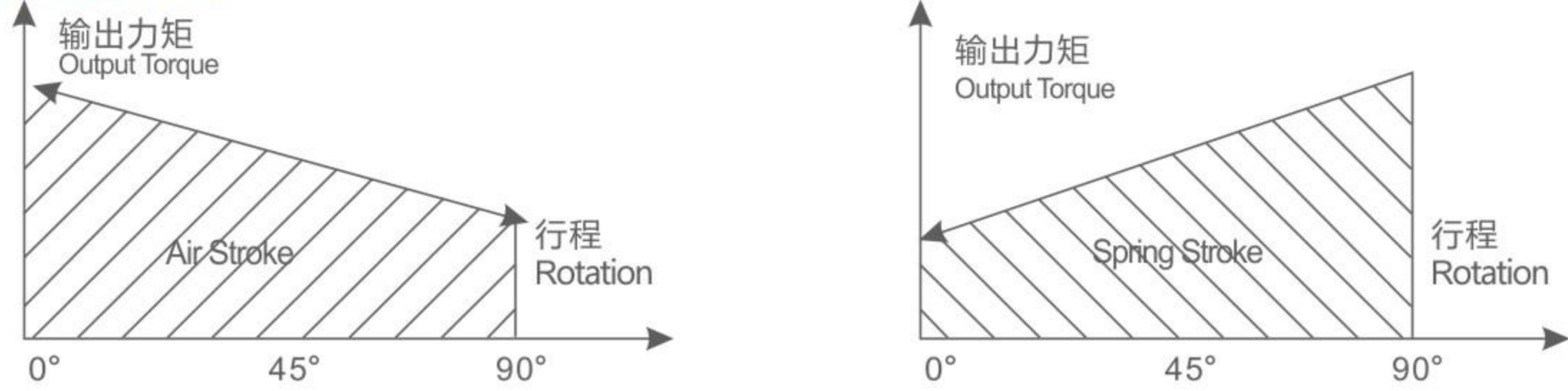
| 型号Model | 气源压力 Air Pressure(Unit:bar) |      |      |      |      |      |      |      |       |       |
|---------|-----------------------------|------|------|------|------|------|------|------|-------|-------|
|         | 2                           | 2.5  | 3    | 4    | 4.5  | 5    | 5.5  | 6    | 7     | 8     |
| AT-32   | 3                           | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 11    | 12    |
| AT-40   | 5                           | 6    | 7    | 10   | 11   | 12   | 13   | 14   | 17    | 19    |
| AT-52   | 8                           | 10   | 12   | 16   | 18   | 20   | 22   | 24   | 28    | 32    |
| AT-63   | 15                          | 18   | 22   | 29   | 33   | 36   | 40   | 44   | 51    | 58    |
| AT-75   | 20                          | 25   | 30   | 40   | 45   | 50   | 55   | 60   | 70    | 80    |
| AT-83   | 31                          | 39   | 47   | 63   | 70   | 78   | 86   | 94   | 110   | 125   |
| AT-92   | 45                          | 56   | 68   | 90   | 102  | 113  | 124  | 135  | 158   | 181   |
| AT-105  | 66                          | 83   | 99   | 132  | 149  | 165  | 182  | 198  | 231   | 264   |
| AT-125  | 100                         | 125  | 150  | 200  | 226  | 251  | 276  | 301  | 351   | 401   |
| AT-140  | 171                         | 214  | 256  | 342  | 385  | 427  | 470  | 513  | 598   | 684   |
| AT-160  | 266                         | 332  | 399  | 532  | 598  | 665  | 731  | 798  | 931   | 1064  |
| AT-190  | 426                         | 532  | 638  | 851  | 958  | 1064 | 1170 | 1277 | 1490  | 1702  |
| AT-210  | 532                         | 665  | 798  | 1064 | 1197 | 1330 | 1463 | 1596 | 1862  | 2128  |
| AT-240  | 769                         | 962  | 1154 | 1539 | 1731 | 1924 | 2116 | 2308 | 2693  | 3078  |
| AT-270  | 1170                        | 1462 | 1754 | 2339 | 2632 | 2924 | 3216 | 3509 | 4094  | 4679  |
| AT-300  | 1526                        | 1908 | 2289 | 3052 | 3434 | 3815 | 4197 | 4578 | 5341  | 6104  |
| AT-350  | 2285                        | 2856 | 3427 | 4570 | 5141 | 5712 | 6283 | 6854 | 7997  | 9139  |
| AT-400  | 3256                        | 4070 | 4884 | 6512 | 7326 | 8140 | 8954 | 9768 | 11396 | 13024 |

双作用执行器的选型：  
 在正常操作条件下，双作用执行器考虑的安全系数为20%-30%。  
 示例：  
 阀门力矩=100Nm  
 安全力矩=100\* (1+30%) =130Nm  
 气源压力=5Bar  
 对照双作用力矩表，选配双作用执行器最小规格为DA105

Selection of double acting actuator:  
 Under normal operating conditions, the safety factor considered for double-acting actuators is 20%-30%.  
 Example:  
 Valve torque=100Nm  
 Safety torque=100\*(1+30%)=130Nm  
 Air pressure = 5Bar  
 Compared with the double-acting torque table, the minimum size of the optional double-acting actuator is DA105



单作用输出力矩



| 输出扭矩Output Torque |            |        |      |       |      |       |      |       |       |       |       |       |       |       |       |       |      | Springs' Output |  |
|-------------------|------------|--------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------------|--|
| 气压Springs' Output |            | 2.5BAR |      | 3BAR  |      | 4BAR  |      | 5BAR  |       | 6BAR  |       | 7BAR  |       | 8BAR  |       |       |      |                 |  |
| 型号Model           | Spring Qty | 0°     | 90°  | 0°    | 90°  | 0°    | 90°  | 0°    | 90°   | 0°    | 90°   | 0°    | 90°   | 0°    | 90°   | 90°   | 0°   |                 |  |
|                   |            | Start  | End  | Start | End  | Start | End  | Start | End   | Start | End   | Start | End   | Start | End   | Start | End  |                 |  |
| SR-52             | K5         | 5.7    | 3.8  | 7.6   | 5.7  | -     | -    | -     | -     | -     | -     | -     | -     | -     | -     | 6.2   | 4.3  |                 |  |
|                   | K6         | 4.9    | 2.5  | 6.9   | 4.5  | 10.9  | 8.5  | -     | -     | -     | -     | -     | -     | -     | -     | 7.4   | 5.0  |                 |  |
|                   | K7         | 4.0    | 1.3  | 6.0   | 3.3  | 9.8   | 7.3  | 14.0  | 10.4  | -     | -     | -     | -     | -     | -     | 8.6   | 5.9  |                 |  |
|                   | K8         | -      | -    | 5.2   | 2.0  | 9.2   | 6.0  | 13.2  | 9.1   | 17.2  | 14.1  | -     | -     | -     | -     | 9.9   | 6.7  |                 |  |
|                   | K9         | -      | -    | 4.3   | 0.8  | 8.3   | 4.8  | 12.3  | 7.9   | 16.3  | 12.8  | 20.3  | 16.8  | -     | -     | 11.1  | 7.6  |                 |  |
|                   | K10        | -      | -    | -     | -    | 7.4   | 3.6  | 11.5  | 6.7   | 15.5  | 11.6  | 19.5  | 15.6  | -     | -     | 12.4  | 8.5  |                 |  |
|                   | K11        | -      | -    | -     | -    | 6.6   | 2.3  | 10.6  | 5.4   | 14.6  | 10.4  | 18.6  | 14.3  | 22.6  | 18.3  | 13.6  | 9.3  |                 |  |
|                   | K12        | -      | -    | -     | -    | -     | -    | 9.7   | 4.2   | 13.8  | 9.1   | 17.8  | 12.2  | 21.8  | 17.1  | 14.8  | 10.2 |                 |  |
| SR-63             | K5         | 11.4   | 7.7  | 15.0  | 11.4 | 22.3  | 14.9 | -     | -     | -     | -     | -     | -     | -     | -     | 10.4  | 6.8  |                 |  |
|                   | K6         | 10.1   | 5.7  | 13.6  | 9.3  | 20.9  | 16.6 | 28.3  | 23.9  | -     | -     | -     | -     | -     | -     | 12.5  | 8.2  |                 |  |
|                   | K7         | 8.6    | 3.6  | 12.5  | 7.2  | 19.5  | 14.5 | 26.8  | 21.9  | -     | -     | -     | -     | -     | -     | 14.6  | 9.6  |                 |  |
|                   | K8         | -      | -    | 10.9  | 5.1  | 18.2  | 12.4 | 25.5  | 19.8  | 32.8  | 27.0  | 40.1  | 34.3  | -     | -     | 16.7  | 10.9 |                 |  |
|                   | K9         | -      | -    | -     | -    | 16.6  | 10.4 | 24.1  | 17.7  | 31.4  | 24.9  | 38.7  | 32.2  | -     | -     | 18.8  | 12.3 |                 |  |
|                   | K10        | -      | -    | -     | -    | 1.4   | 8.2  | 22.8  | 15.6  | 30.0  | 22.8  | 37.3  | 30.1  | 44.7  | 37.4  | 20.9  | 13.7 |                 |  |
|                   | K11        | -      | -    | -     | -    | -     | -    | 21.5  | 13.5  | 28.7  | 20.7  | 36.0  | 28.0  | 43.3  | 35.3  | 22.9  | 15.0 |                 |  |
|                   | K12        | -      | -    | -     | -    | -     | -    | 20.0  | 11.4  | 27.3  | 18.6  | 34.6  | 25.9  | 41.9  | 33.3  | 25.0  | 16.4 |                 |  |
| SR-75             | K5         | 14.5   | 10.6 | 19.4  | 15.5 | 29.5  | 29.5 | -     | -     | -     | -     | -     | -     | -     | -     | 14.5  | 10.5 |                 |  |
|                   | K6         | 12.4   | 7.6  | 17.3  | 12.6 | 27.4  | 27.4 | 37.5  | 32.8  | -     | -     | -     | -     | -     | -     | 17.4  | 12.7 |                 |  |
|                   | K7         | 10.4   | 4.8  | 15.2  | 9.7  | 25.3  | 25.3 | 35.4  | 29.9  | -     | -     | -     | -     | -     | -     | 20.3  | 14.8 |                 |  |
|                   | K8         | -      | -    | 13.1  | 6.8  | 23.1  | 23.1 | 33.3  | 27.0  | 43.2  | 37.0  | 53.3  | 47.0  | -     | -     | 23.2  | 16.9 |                 |  |
|                   | K9         | -      | -    | -     | -    | 21.0  | 21.0 | 31.2  | 24.1  | 41.1  | 34.1  | 51.2  | 44.2  | -     | -     | 26.1  | 19.0 |                 |  |
|                   | K10        | -      | -    | -     | -    | 19.0  | 19.0 | 28.8  | 21.2  | 39.0  | 31.2  | 49.1  | 41.2  | 59.1  | 51.2  | 29.0  | 21.1 |                 |  |
|                   | K11        | -      | -    | -     | -    | -     | -    | 27.0  | 18.3  | 37.0  | 28.3  | 47.0  | 38.4  | 57.0  | 48.4  | 31.9  | 23.2 |                 |  |
|                   | K12        | -      | -    | -     | -    | -     | -    | 24.9  | 15.4  | 34.9  | 25.4  | 44.9  | 35.4  | 54.9  | 45.4  | 34.7  | 25.3 |                 |  |
| SR-83             | K5         | 23.3   | 16.1 | 31.1  | 24.0 | 46.8  | 39.7 | -     | -     | -     | -     | -     | -     | -     | -     | 23.0  | 15.8 |                 |  |
|                   | K6         | 20.1   | 11.5 | 28.0  | 19.3 | 43.7  | 35.1 | 59.4  | 50.7  | -     | -     | -     | -     | -     | -     | 27.6  | 19.0 |                 |  |
|                   | K7         | 17.0   | 6.9  | 24.8  | 14.8 | 40.5  | 30.5 | 56.2  | 46.2  | -     | -     | -     | -     | -     | -     | 32.2  | 22.1 |                 |  |
|                   | K8         | -      | -    | 21.7  | 10.1 | 37.4  | 25.8 | 53.1  | 41.5  | 68.8  | 57.2  | 84.5  | 72.9  | -     | -     | 36.8  | 25.3 |                 |  |
|                   | K9         | -      | -    | -     | -    | 34.2  | 21.3 | 49.9  | 37.0  | 65.6  | 52.6  | 81.2  | 68.3  | -     | -     | 41.4  | 28.5 |                 |  |
|                   | K10        | -      | -    | -     | -    | 31.0  | 16.6 | 46.7  | 32.3  | 62.4  | 48.0  | 78.1  | 63.7  | 93.8  | 79.3  | 46.0  | 31.6 |                 |  |
|                   | K11        | -      | -    | -     | -    | -     | -    | 43.6  | 27.7  | 59.3  | 43.4  | 75.0  | 59.1  | 90.6  | 74.8  | 50.6  | 34.8 |                 |  |
|                   | K12        | -      | -    | -     | -    | -     | -    | 40.4  | 23.2  | 56.1  | 38.9  | 71.7  | 54.5  | 87.4  | 70.2  | 55.2  | 38.0 |                 |  |
| SR-92             | K5         | 33.1   | 22.0 | 44.2  | 33.2 | 66.8  | 55.9 | -     | -     | -     | -     | -     | -     | -     | -     | 34.4  | 23.3 |                 |  |
|                   | K6         | 28.4   | 15.2 | 39.6  | 26.4 | 62.2  | 49.0 | 84.8  | 71.6  | -     | -     | -     | -     | -     | -     | 41.2  | 28.0 |                 |  |
|                   | K7         | 23.8   | 8.2  | 34.9  | 19.4 | 57.5  | 42.1 | 80.2  | 64.7  | -     | -     | -     | -     | -     | -     | 48.1  | 32.7 |                 |  |
|                   | K8         | -      | -    | 31.3  | 12.6 | 52.9  | 35.2 | 75.5  | 57.9  | 98.1  | 80.5  | 120.7 | 103.0 | -     | -     | 55.0  | 37.3 |                 |  |
|                   | K9         | -      | -    | -     | -    | 48.2  | 28.4 | 70.9  | 51.0  | 93.5  | 73.6  | 116.0 | 96.1  | -     | -     | 61.9  | 42.0 |                 |  |
|                   | K10        | -      | -    | -     | -    | 43.6  | 21.5 | 66.2  | 44.1  | 88.8  | 66.7  | 111.3 | 89.2  | 134.0 | 111.8 | 68.7  | 46.7 |                 |  |
|                   | K11        | -      | -    | -     | -    | -     | -    | 61.5  | 37.2  | 84.1  | 59.9  | 106.6 | 82.4  | 129.2 | 105.0 | 75.6  | 51.4 |                 |  |
|                   | K12        | -      | -    | -     | -    | -     | -    | 56.8  | 30.4  | 79.4  | 53.0  | 101.9 | 75.5  | 124.5 | 98.1  | 82.5  | 56.0 |                 |  |
| SR-105            | K5         | 51.0   | 33.4 | 67.5  | 49.9 | 100.6 | 83.0 | -     | -     | -     | -     | -     | -     | -     | -     | 49.2  | 31.6 |                 |  |
|                   | K6         | 44.7   | 23.5 | 61.1  | 40.0 | 94.2  | 73.2 | 127.3 | 106.2 | -     | -     | -     | -     | -     | -     | 59.1  | 38.0 |                 |  |
|                   | K7         | 38.4   | 13.7 | 54.9  | 30.3 | 87.9  | 63.4 | 121.0 | 96.4  | -     | -     | -     | -     | -     | -     | 68.9  | 44.3 |                 |  |
|                   | K8         | -      | -    | 48.5  | 20.4 | 81.6  | 53.5 | 114.7 | 86.5  | 147.7 | 119.6 | 180.8 | 152.7 | -     | -     | 78.7  | 50.6 |                 |  |
|                   | K9         | -      | -    | -     | -    | 75.3  | 43.7 | 108.4 | 76.8  | 141.5 | 109.8 | 174.5 | 142.9 | -     | -     | 88.6  | 56.9 |                 |  |
|                   | K10        | -      | -    | -     | -    | 68.9  | 33.4 | 102.0 | 66.5  | 135.1 | 99.6  | 168.2 | 132.6 | 201.2 | 165.7 | 98.4  | 63.3 |                 |  |
|                   | K11        | -      | -    | -     | -    | -     | -    | 95.7  | 57.0  | 128.7 | 90.1  | 161.8 | 123.1 | 194.8 | 156.2 | 108.3 | 69.6 |                 |  |
|                   | K12        | -      | -    | -     | -    | -     | -    | 89.4  | 47.5  | 122.5 | 80.6  | 155.5 | 113.6 | 188.6 | 146.7 | 118.1 | 75.9 |                 |  |
| SR-125            | K5         | 73     | 47   | 98    | 72   | 148   | 122  | -     | -     | -     | -     | -     | -     | -     | -     | 79    | 52   |                 |  |
|                   | K6         | 63     | 31   | 88    | 56   | 138   | 107  | 188   | 157   | -     | -     | -     | -     | -     | -     | 94    | 63   |                 |  |
|                   | K7         | 52     | 15   | 77    | 40   | 127   | 90   | 178   | 141   | -     | -     | -     | -     | -     | -     | 110   | 73   |                 |  |
|                   | K8         | -      | -    | 67    | 25   | 117   | 75   | 167   | 125   | 217   | 176   | 268   | 226   | -     | -     | 125   | 84   |                 |  |
|                   | K9         | -      | -    | -     | -    | 107   | 59   | 157   | 109   | 207   | 159   | 257   | 210   | -     | -     | 141   | 94   |                 |  |
|                   | K10        | -      | -    | -     | -    | 96    | 44   | 146   | 94    | 196   | 144   | 247   | 194   | 297   | 245   | 157   | 105  |                 |  |
|                   | K11        | -      | -    | -     | -    | -     | -    | 136   | 78    | 186   | 128   | 236   | 178   | 286   | 228   | 173   | 115  |                 |  |
|                   | K12        | -      | -    | -     | -    | -     | -    | 125   | 63    | 176   | 113   | 226   | 163   | 276   | 213   | 188   | 125  |                 |  |
| SR-140            | K5         | 128    | 85   | 171   | 127  | 256   | 213  | -     | -     | -     | -     | -     | -     | -     | -     | 129   | 86   |                 |  |
|                   | K6         | 111    | 59   | 154   | 102  | 239   | 187  | 325   | 273   | -     | -     | -     | -     | -     | -     | 155   | 103  |                 |  |
|                   | K7         | 94     | 33   | 137   | 76   | 222   | 162  | 308   | 247   | -     | -     | -     | -     | -     | -     | 181   | 120  |                 |  |
|                   | K8         | -      | -    | 120   | 50   | 205   | 136  | 291   | 221   | 376   | 307   | 462   | 392   | -     | -     | 206   | 137  |                 |  |
|                   | K9         | -      | -    | -     | -    | 187   | 110  | 273   | 196   | 358   | 281   | 444   | 367   | -     | -     | 232   | 155  |                 |  |
|                   | K10        | -      | -    | -     | -    | 170   | 84   | 256   | 169   | 341   | 255   | 427   | 340   | 512   | 426   | 258   | 172  |                 |  |
|                   | K11        | -      | -    | -     | -    | -     | -    | 238   | 143   | 324   | 229   | 409   | 314   | 495   | 400   | 284   | 189  |                 |  |
|                   | K12        | -      | -    | -     | -    | -     | -    | 221   | 118   | 307   | 203   | 392   | 289   | 478   | 374   | 310   | 206  |                 |  |

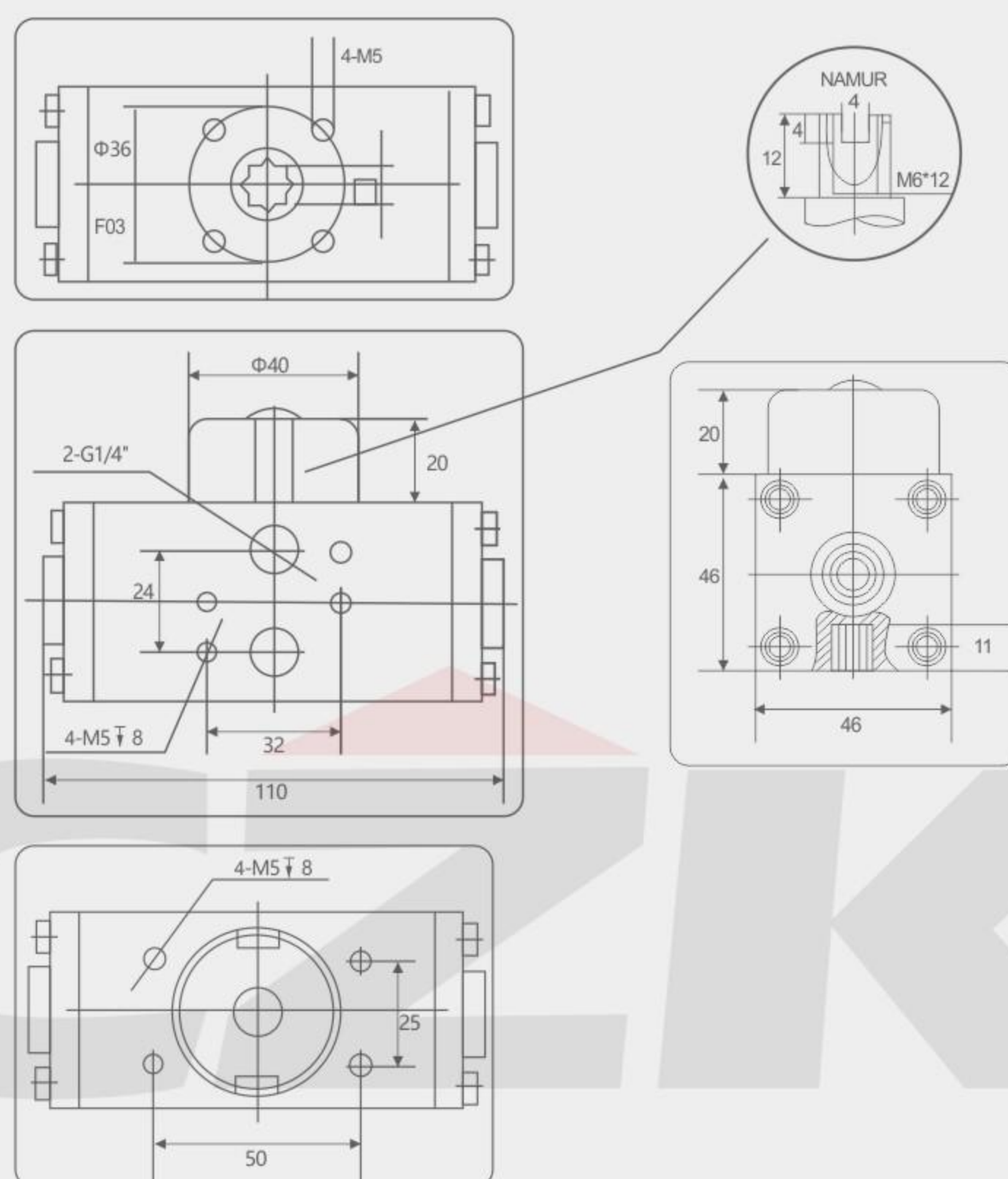


单作用输出力矩

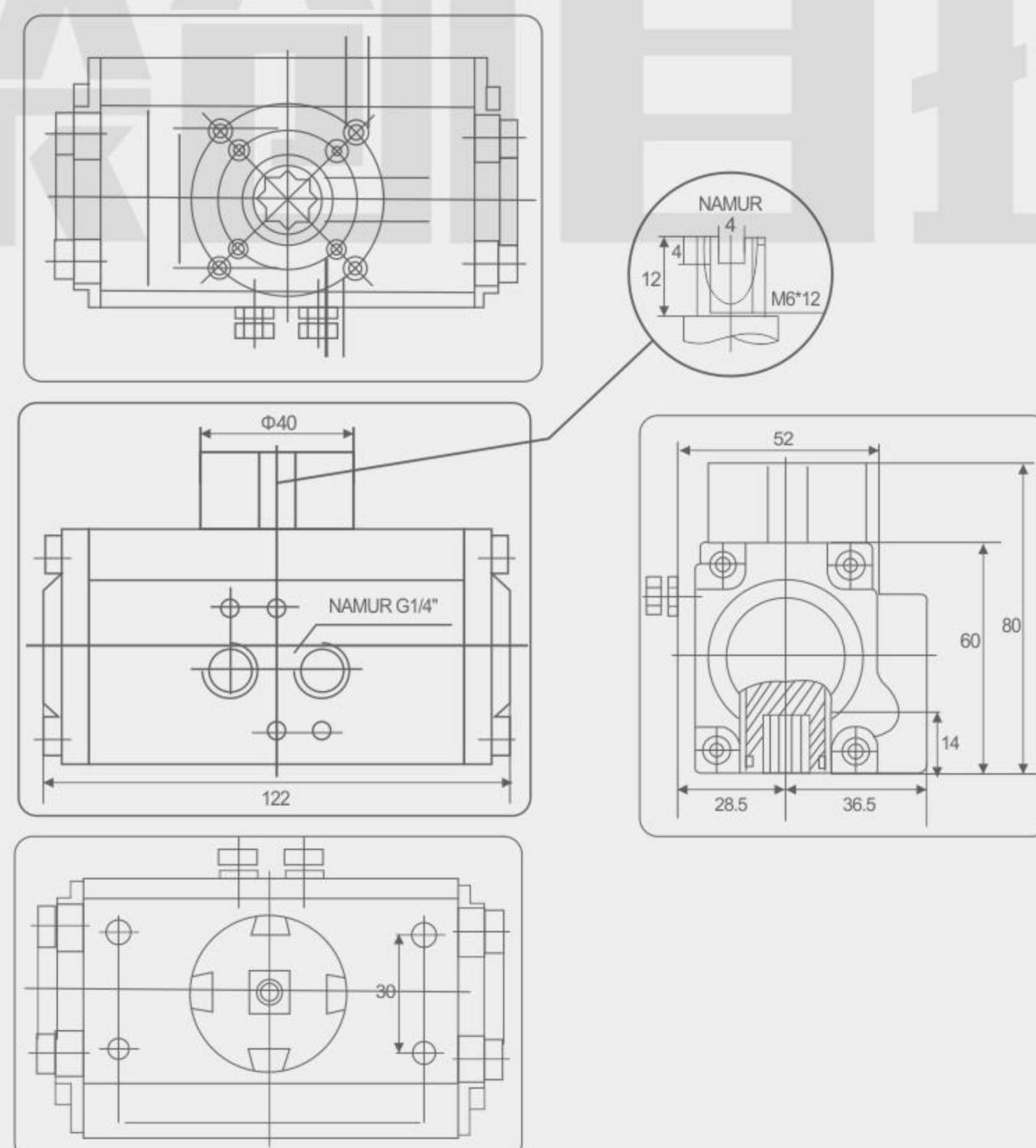
| 输出扭矩 Output Torque |            |        |     |       |      |       |      |       |      |       |      |       |      |       |      | Springs' Output |      |
|--------------------|------------|--------|-----|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-----------------|------|
| 气压Springs' Output  |            | 2.5BAR |     | 3BAR  |      | 4BAR  |      | 5BAR  |      | 6BAR  |      | 7BAR  |      | 8BAR  |      |                 |      |
| 型号Model            | Spring Qty | 0°     | 90° | 0°    | 90°  | 0°    | 90°  | 0°    | 90°  | 0°    | 90°  | 0°    | 90°  | 0°    | 90°  | 90°             | 0°   |
|                    |            | Start  | End | Start | End  | Start | End  | Start | End  | Start | End  | Start | End  | Start | End  | Start           | End  |
| SR-160             | K5         | 193    | 124 | 259   | 191  | 392   | 324  | -     | -    | -     | -    | -     | -    | -     | -    | 208             | 140  |
|                    | K6         | 165    | 83  | 232   | 149  | 365   | 282  | 498   | 415  | -     | -    | -     | -    | -     | -    | 250             | 168  |
|                    | K7         | 137    | 41  | 203   | 107  | 336   | 240  | 469   | 373  | -     | -    | -     | -    | -     | -    | 292             | 196  |
|                    | K8         | -      | -   | 176   | 66   | 309   | 199  | 442   | 237  | 575   | 465  | 708   | 598  | -     | -    | 333             | 223  |
|                    | K9         | -      | -   | -     | -    | 280   | 157  | 413   | 290  | 546   | 423  | 679   | 556  | -     | -    | 375             | 251  |
|                    | K10        | -      | -   | -     | -    | 253   | 115  | 386   | 248  | 519   | 381  | 652   | 514  | -     | -    | 417             | 279  |
|                    | K11        | -      | -   | -     | -    | -     | -    | 358   | 207  | 491   | 340  | 624   | 473  | 785   | 647  | 458             | 307  |
|                    | K12        | -      | -   | -     | -    | -     | -    | 330   | 165  | 463   | 298  | 596   | 431  | 757   | 606  | 500             | 335  |
| SR-190             | K5         | 332    | 222 | 438   | 329  | 651   | 542  | -     | -    | -     | -    | -     | -    | 729   | 564  | 309             | 200  |
|                    | K6         | 292    | 161 | 398   | 267  | 611   | 480  | 824   | 693  | -     | -    | -     | -    | -     | -    | 371             | 240  |
|                    | K7         | 252    | 99  | 358   | 205  | 571   | 418  | 784   | 631  | -     | -    | -     | -    | -     | -    | 433             | 280  |
|                    | K8         | -      | -   | 318   | 143  | 531   | 356  | 744   | 569  | 957   | 782  | 1169  | 995  | -     | -    | 495             | 320  |
|                    | K9         | -      | -   | -     | -    | 491   | 295  | 704   | 507  | 917   | 720  | 1130  | 933  | -     | -    | 557             | 360  |
|                    | K10        | -      | -   | -     | -    | 451   | 233  | 664   | 446  | 877   | 658  | 1090  | 871  | 1302  | 1084 | 618             | 400  |
|                    | K11        | -      | -   | -     | -    | -     | -    | 624   | 384  | 837   | 597  | 1050  | 809  | 1263  | 1022 | 680             | 440  |
|                    | K12        | -      | -   | -     | -    | -     | -    | 584   | 322  | 797   | 535  | 1010  | 748  | 1223  | 960  | 742             | 480  |
| SR-210             | K5         | 390    | 285 | 523   | 418  | 789   | 684  | -     | -    | -     | -    | -     | -    | -     | -    | 380             | 275  |
|                    | K6         | 335    | 209 | 468   | 342  | 734   | 608  | 1000  | 874  | -     | -    | -     | -    | -     | -    | 456             | 330  |
|                    | K7         | 280    | 133 | 413   | 266  | 679   | 532  | 945   | 798  | -     | -    | -     | -    | -     | -    | 532             | 385  |
|                    | K8         | -      | -   | 358   | 190  | 624   | 456  | 890   | 722  | 1156  | 988  | 1422  | 1254 | -     | -    | 608             | 440  |
|                    | K9         | -      | -   | -     | -    | 569   | 380  | 835   | 646  | 1101  | 912  | 1367  | 1178 | -     | -    | 684             | 495  |
|                    | K10        | -      | -   | -     | -    | 514   | 304  | 780   | 570  | 1046  | 836  | 1312  | 1102 | 1578  | 1368 | 760             | 550  |
|                    | K11        | -      | -   | -     | -    | -     | -    | 725   | 494  | 991   | 760  | 1257  | 1026 | 1523  | 1292 | 836             | 605  |
|                    | K12        | -      | -   | -     | -    | -     | -    | 670   | 418  | 936   | 684  | 1202  | 950  | 1468  | 1216 | 912             | 660  |
| SR-240             | K5         | 552    | 409 | 744   | 600  | 1129  | 985  | -     | -    | -     | -    | -     | -    | -     | -    | 554             | 410  |
|                    | K6         | 470    | 297 | 662   | 489  | 1047  | 874  | 1432  | 1259 | -     | -    | -     | -    | -     | -    | 665             | 492  |
|                    | K7         | 388    | 187 | 580   | 379  | 964   | 764  | 1349  | 1149 | -     | -    | -     | -    | -     | -    | 775             | 575  |
|                    | K8         | -      | -   | 498   | 268  | 883   | 653  | 1267  | 1037 | 1652  | 1422 | 2037  | 1807 | -     | -    | 886             | 656  |
|                    | K9         | -      | -   | -     | -    | 800   | 542  | 1185  | 926  | 1569  | 1311 | 1954  | 1696 | -     | -    | 998             | 739  |
|                    | K10        | -      | -   | -     | -    | 718   | 431  | 1103  | 816  | 1488  | 1201 | 1872  | 1586 | 2257  | 1970 | 1108            | 821  |
|                    | K11        | -      | -   | -     | -    | -     | -    | 1021  | 705  | 1406  | 1090 | 1791  | 1474 | 2176  | 1859 | 1219            | 903  |
|                    | K12        | -      | -   | -     | -    | -     | -    | 939   | 594  | 1323  | 979  | 1708  | 1363 | 2093  | 1748 | 1330            | 985  |
| SR-270             | K5         | 903    | 675 | 1195  | 968  | 1779  | 1552 | -     | -    | -     | -    | -     | -    | -     | -    | 787             | 560  |
|                    | K6         | 790    | 519 | 1083  | 811  | 1667  | 1396 | 2252  | 1981 | -     | -    | -     | -    | -     | -    | 943             | 672  |
|                    | K7         | 679    | 361 | 972   | 654  | 1556  | 1238 | 2141  | 1823 | -     | -    | -     | -    | -     | -    | 1101            | 783  |
|                    | K8         | -      | -   | 860   | 497  | 1444  | 1081 | 2029  | 1666 | 2614  | 2252 | 3199  | 2836 | -     | -    | 1258            | 895  |
|                    | K9         | -      | -   | -     | -    | 1332  | 923  | 1917  | 1509 | 2502  | 2094 | 3087  | 2678 | -     | -    | 1416            | 1007 |
|                    | K10        | -      | -   | -     | -    | 1220  | 767  | 1805  | 1352 | 2390  | 1937 | 2974  | 2521 | 3560  | 3107 | 1572            | 1119 |
|                    | K11        | -      | -   | -     | -    | -     | -    | 1693  | 1194 | 2278  | 1779 | 2862  | 2364 | 3448  | 2949 | 1730            | 1231 |
|                    | K12        | -      | -   | -     | -    | -     | -    | 1582  | 1037 | 2167  | 1623 | 2751  | 2207 | 3336  | 2792 | 1887            | 1342 |
| SR-300             | K5         | 1097   | 729 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | 1061            | 730  |
|                    | K6         | 935    | 494 | 1316  | 875  | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | 1273            | 876  |
|                    | K7         | 772    | 258 | 1153  | 639  | 1916  | 1402 | -     | -    | -     | -    | -     | -    | -     | -    | 1485            | 1022 |
|                    | K8         | -      | -   | 991   | 403  | 1754  | 1166 | 2517  | 1929 | -     | -    | -     | -    | -     | -    | 1697            | 1168 |
|                    | K9         | -      | -   | -     | -    | 1592  | 930  | 2355  | 1693 | 3118  | 2456 | -     | -    | -     | -    | 1909            | 1314 |
|                    | K10        | -      | -   | -     | -    | 1430  | 695  | 2193  | 1458 | 2956  | 2221 | 3719  | 2984 | 4482  | 3747 | 2122            | 1460 |
|                    | K11        | -      | -   | -     | -    | -     | -    | 2030  | 1222 | 2793  | 1985 | 3556  | 2748 | 4319  | 3511 | 2334            | 1606 |
|                    | K12        | -      | -   | -     | -    | -     | -    | 1868  | 986  | 2631  | 1749 | 3394  | 2512 | 4157  | 3275 | 2546            | 1752 |
| SR-350             | K5         | 1553   | 964 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | 1702            | 1173 |
|                    | K6         | 1292   | 586 | 1863  | 1157 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | 2043            | 1408 |
|                    | K7         | 1031   | 208 | 1602  | 779  | 2745  | 1922 | -     | -    | -     | -    | -     | -    | -     | -    | 2383            | 1642 |
|                    | K8         | -      | -   | 1341  | 401  | 2484  | 1544 | 3626  | 2686 | -     | -    | -     | -    | -     | -    | 2724            | 1877 |
|                    | K9         | -      | -   | -     | -    | 2224  | 1165 | 3336  | 2307 | 4508  | 3449 | -     | -    | -     | -    | 3064            | 2112 |
|                    | K10        | -      | -   | -     | -    | 1963  | 787  | 3105  | 1929 | 4247  | 3071 | 5390  | 4214 | 6532  | 5356 | 3405            | 2346 |
|                    | K11        | -      | -   | -     | -    | -     | -    | 2844  | 1551 | 3986  | 2693 | 5129  | 3836 | 6271  | 4978 | 3745            | 2581 |
|                    | K12        | -      | -   | -     | -    | -     | -    | 2584  | 1172 | 3726  | 2314 | 4869  | 3457 | 6011  | 4599 | 4086            | 2816 |
| SR-400             | K7         | 2028   | 869 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | 2880            | 1837 |
|                    | K8         | 1736   | 411 | 2550  | 1225 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | 3292            | 2100 |
|                    | K9         | -      | -   | 2259  | 768  | 3887  | 2396 | -     | -    | -     | -    | -     | -    | -     | -    | 3703            | 2362 |
|                    | K10        | -      | -   | 1967  | 311  | 3596  | 1939 | 5223  | 3567 | -     | -    | -     | -    | -     | -    | 4115            | 2624 |
|                    | K11        | -      | -   | -     | -    | 3303  | 1482 | 4931  | 3110 | 6559  | 4738 | -     | -    | -     | -    | 4526            | 2887 |
|                    | K12        | -      | -   | -     | -    | 3012  | 1025 | 4640  | 2653 | 6268  | 4281 | 7895  | 5908 | 9523  | 7536 | 4938            | 3149 |
|                    | K13        | -      | -   | -     | -    | -     | -    | 4348  | 2195 | 5976  | 3823 | 7603  | 5450 | 9231  | 7078 | 5349            | 3412 |
|                    | K14        | -      | -   | -     | -    | -     | -    | 4057  | 1738 | 5685  | 3366 | 7312  | 4993 | 8940  | 6621 | 5761            | 3674 |
|                    | K15        | -      | -   | -     | -    | -     | -    | 3765  | 1281 | 5393  | 2909 | 7020  | 4536 | 8648  | 6164 | 6172            | 3937 |
|                    | K16        | -      | -   | -     | -    | -     | -    | -     | -    | 5101  | 2452 | 6728  | 4079 | 8356  | 5707 | 6584            | 4199 |



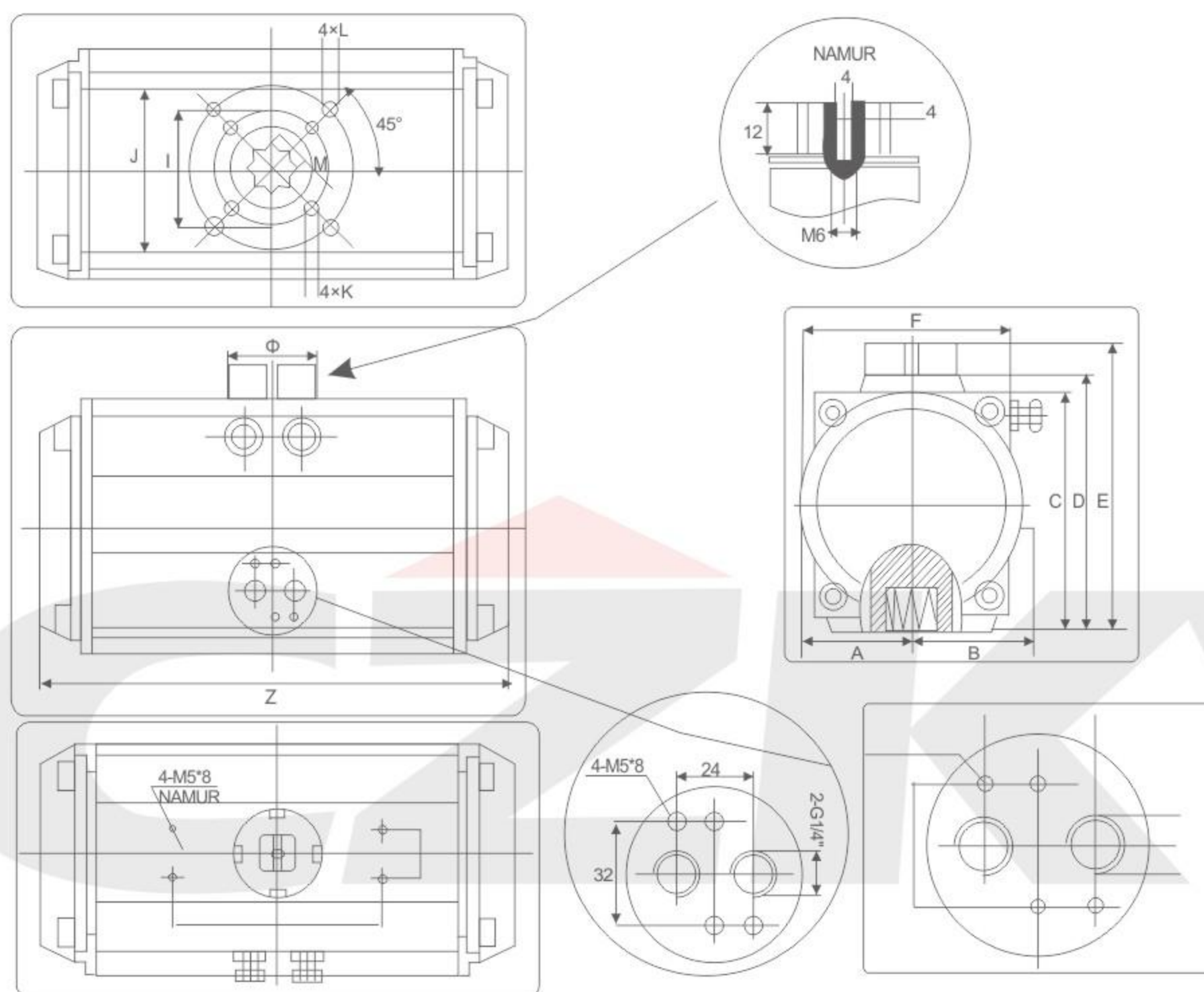
DA/SR-32



DA/SR-40







G1/4"NAMUR标准

G1/2"NAMUR标准

HJ执行器安装尺寸表 HJ Actuator Installation Size Table

| 型号Model   |      |      |       |       |       |       |    |     | 连接孔  |      |        |          |    |    |     |     | 气源接口        |
|-----------|------|------|-------|-------|-------|-------|----|-----|------|------|--------|----------|----|----|-----|-----|-------------|
|           | A    | B    | C     | D     | E     | F     | G  | H   | I    | J    | K      | L        | M  | N  | Z   | Φ   |             |
| DA/SR-32  | 23   | 23   | 46    | 46    | 66    | 46    | 25 | 50  | -    | Φ36  | -      | M5×8     | 9  | 11 | 110 | Φ40 | NAMUR G1/4" |
| DA/SR-40  | 28.5 | 36.5 | 60    | 60    | 80    | 52    | 30 | 80  | Φ36  | Φ50  | M5×8   | M6×10    | 11 | 14 | 122 | Φ40 | NAMUR G1/4" |
| DA/SR-52  | 30   | 41.5 | 65.5  | 72    | 92    | 65    | 30 | 80  | Φ36  | Φ50  | M5×8   | M6×10    | 11 | 14 | 147 | Φ40 | NAMUR G1/4" |
| DA/SR-63  | 36   | 47   | 81    | 88    | 108   | 72    | 30 | 80  | Φ50  | Φ70  | M6×10  | M8×13    | 14 | 18 | 168 | Φ40 | NAMUR G1/4" |
| DA/SR-75  | 42   | 53   | 94    | 99.5  | 119.5 | 81    | 30 | 80  | Φ50  | Φ70  | M6×10  | M8×13    | 14 | 18 | 184 | Φ40 | NAMUR G1/4" |
| DA/SR-83  | 46   | 57   | 98.5  | 108.5 | 128.7 | 92    | 30 | 80  | Φ50  | Φ70  | M6×10  | M8×13    | 17 | 21 | 204 | Φ40 | NAMUR G1/4" |
| DA/SR-92  | 50   | 58.5 | 111   | 116.5 | 136.5 | 98    | 30 | 80  | Φ50  | Φ70  | M6×10  | M8×13    | 17 | 21 | 262 | Φ40 | NAMUR G1/4" |
| DA/SR-105 | 57.5 | 64   | 122.5 | 133   | 153   | 109.5 | 30 | 80  | Φ70  | Φ102 | M8×13  | M10×16   | 22 | 26 | 268 | Φ40 | NAMUR G1/4" |
| DA/SR-125 | 67.5 | 74.5 | 145.5 | 155   | 185   | 127.5 | 30 | 130 | Φ70  | Φ102 | M8×13  | M10×16   | 22 | 26 | 301 | Φ55 | NAMUR G1/4" |
| DA/SR-140 | 75   | 77   | 161   | 172   | 202   | 137.5 | 30 | 130 | Φ102 | Φ125 | M10×16 | M12×20   | 27 | 31 | 390 | Φ55 | NAMUR G1/4" |
| DA/SR-160 | 87   | 87   | 184   | 197   | 227   | 159   | 30 | 130 | Φ102 | Φ125 | M10×16 | M12×20   | 27 | 31 | 458 | Φ55 | NAMUR G1/4" |
| DA/SR-190 | 103  | 103  | 215   | 230   | 260   | 189   | 30 | 130 | -    | Φ140 | -      | M16×25   | 36 | 40 | 525 | Φ80 | NAMUR G1/4" |
| DA/SR-210 | 113  | 113  | 235.5 | 255   | 285   | 210   | 30 | 130 | -    | Φ140 | -      | M16×25   | 36 | 40 | 532 | Φ80 | NAMUR G1/4" |
| DA/SR-240 | 130  | 130  | 264.5 | 289   | 319   | 245   | 30 | 130 | -    | Φ165 | -      | M20×25   | 46 | 50 | 602 | Φ80 | NAMUR G1/4" |
| DA/SR-270 | 147  | 147  | 299   | 326   | 356   | 273   | 30 | 130 | -    | Φ165 | -      | M20×25   | 46 | 50 | 718 | Φ80 | NAMUR G1/2" |
| DA/SR-300 | 162  | 174  | 330   | 350   | 380   | 312   | 30 | 130 | -    | Φ165 | -      | M20×25   | 46 | 50 | 760 | Φ80 | NAMUR G1/2" |
| DA/SR-350 | 190  | 195  | 483   | 410   | 440   | 365   | 30 | 130 | Φ165 | Φ254 | M20×25 | 8×M16×25 | 46 | 50 | 920 | Φ80 | NAMUR G1/2" |
| DA/SR-400 | 260  | 260  | 466   | 466   | 496   | 298   | 30 | 130 | Φ165 | Φ254 | M20×25 | 8×M16×25 | 46 | 50 | 940 | Φ80 | NAMUR G1/2" |