

## 订货须知

- 1、订购本公司样本所列的动力单元或相关配件时，请阅读"怎样订购威博动力单元"的内容，严格按照所列的技术参数，一定考虑到液压原理（或应用）、系统压力、系统流量、安装形式（卧式或立式）、油口尺寸等相关因素。
- 2、本公司所有产品自出货之日起一年内，用户严格按使用说明书规定，正确安装并在压力范围内使用，因我公司的设计制造原因而出现质量问题，无法正常工作，请提供使用过程中的不良记录，本公司负责维修、更换或退货。
- 3、请用户妥善运输、保管、使用，如有任何疑问，请与本公司售后服务部门联系。

## ORDER ATTENTION

1. Your choice of the power unit or component parts should take account of the hydraulic circuit (i.e. application), system pressure and flow, mounting type (horizontal or vertical), oil port, etc. Please check the "HOW TO ORDER" sheet and the feature parameters mentioned in the instruction sheet.
2. The VIBO products' warranty period is one year from delivery. In addition, for our OEM customers, VIBO undertakes to maintain, replace or return any products of sub-standard design or manufacturing. The warranty shall not be applied when the user has not operated the products according to our instructions, or can not present adequate records documenting usage and maintenance.
3. The product should be well protected from moisture and must be treated with care during storage, transportation and operation.

# CMB1-02 中心阀块 Center Manifold



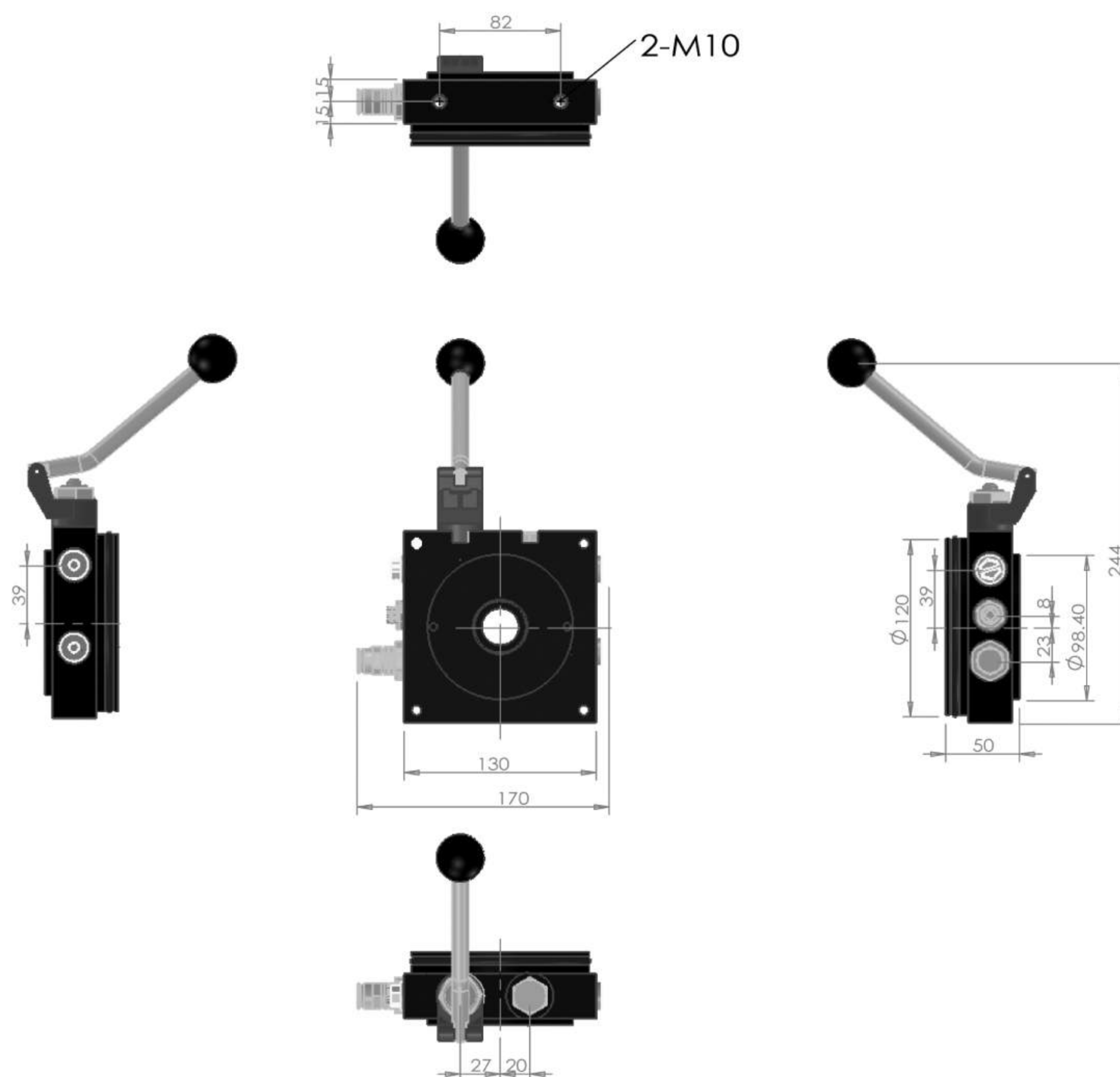
CMB1-02号中心阀块专门为汽车举升机而设计。为优质铝合金挤压而成，表面氧化处理。一般与380V、220V、110V 钢板电机组合。外观简洁，经久耐用，操作简便、专业性强。

适用液压原理图：02、03、05、21、22

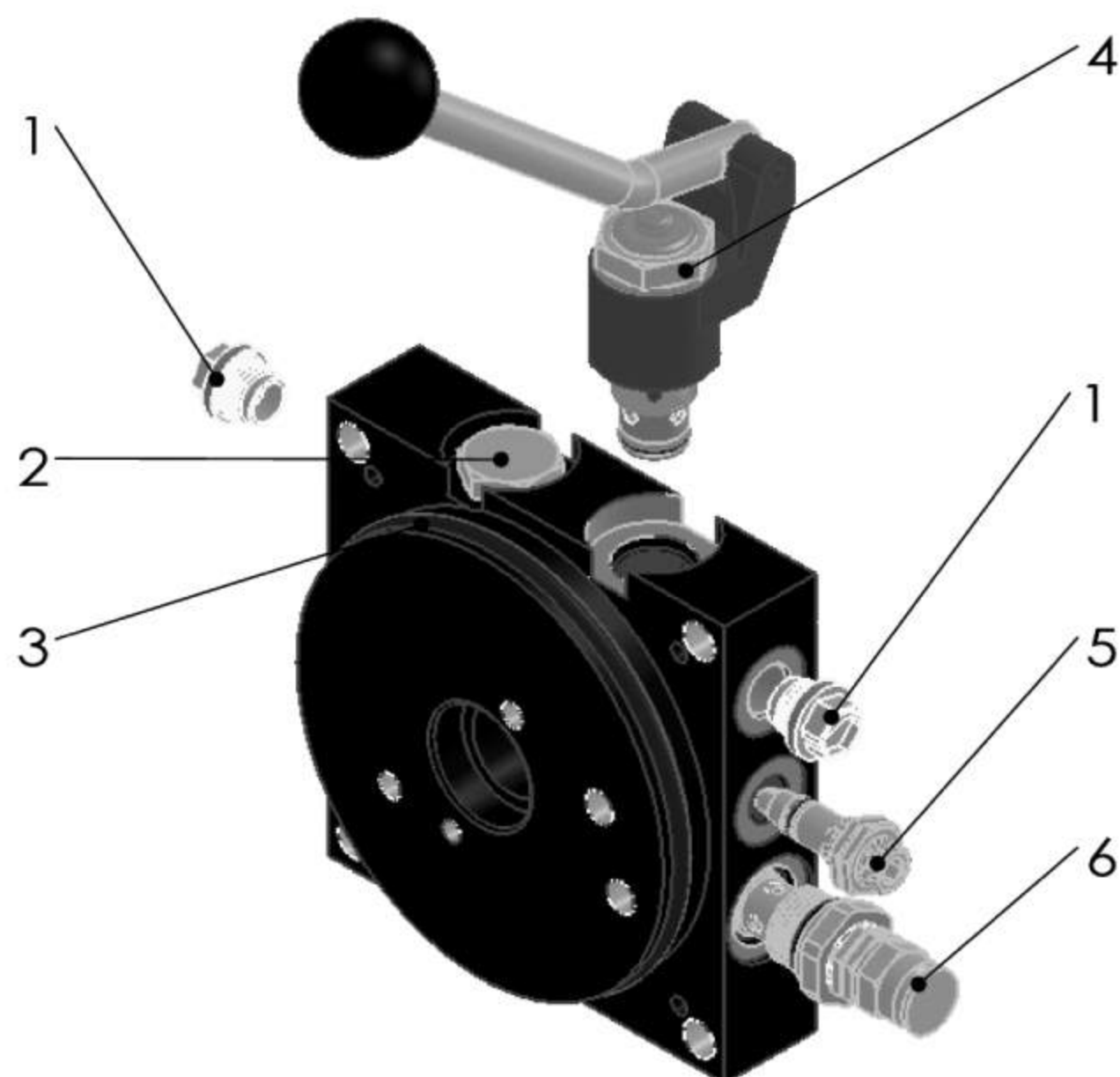
Gravity Casting Manifold, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement, and special Oxide Film treatment. Especially designed for Car-lifts, with the succinct instruction, easy operation, stability performance and highly durable service-life.

Application available of the hydraulic schematic: 02、03、05、21、22

## 一、外形尺寸图 Outline Dimensions

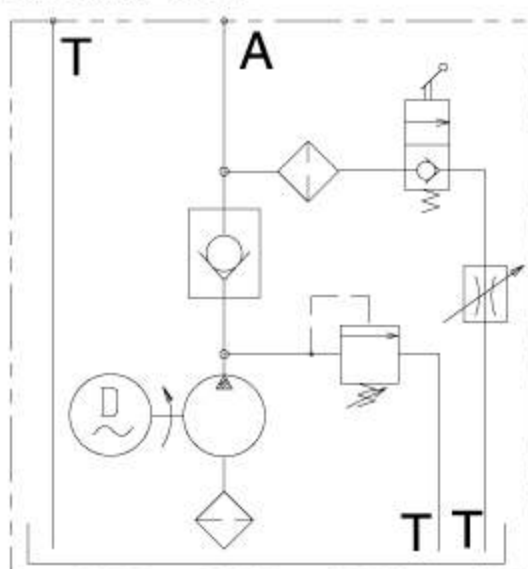


## 二、爆炸图 Exploded Drawing



| 序号<br>Item | 部件名称<br>Part name     | 代码<br>Part code |
|------------|-----------------------|-----------------|
| 1          | 塑料堵塞<br>Plastic plug  | PVP-02          |
|            |                       |                 |
| 2          | 单向阀<br>Check valve    | CV-01           |
|            |                       |                 |
| 3          | O型圈<br>O-ring         | φ 112x4         |
|            |                       |                 |
| 4          | 手动阀<br>Manual valve   | MV-01           |
|            |                       |                 |
| 5          | 节流阀<br>Throttle valve | FCV-02          |
|            |                       |                 |
| 6          | 溢流阀<br>Relief valve   | RV-02           |
|            |                       |                 |

## 三、典型原理图 Hydraulic Schematic



## 四、使用说明 Operation Directions

- 二位三通手动阀MV-01图示4号零件: 操作时向下按为放油卸压, 松开为保压正常工作。
- 下降节流阀图示5号零件: 调节时松开锁紧螺母, 用6mm内六角扳手调节, 右旋为减小流量, 左旋为增大流量, 流量调节合适后, 请锁紧螺母。
- 调压阀RV-02图示6号零件: 出厂时压力已调节好请不要随意调节。需要调节压力时, 松开锁紧螺母。
  - 用3mm内六角扳手, 右旋增加压力, 左旋减少压力。
  - 压力调节合适后, 请锁紧螺母。

### 1. Fitting part of Item 4: 2 Position-2 Way Manual Release Valve **MV-01**

Push and down to make the pressure released and the oil return to tank; loose and free state: pressure holding and the oil working.

### 2. Fitting part of Item 5: Adjustable Down-Speed Control Valve **FCV-02** For necessary adjustment by expert operation guiding:

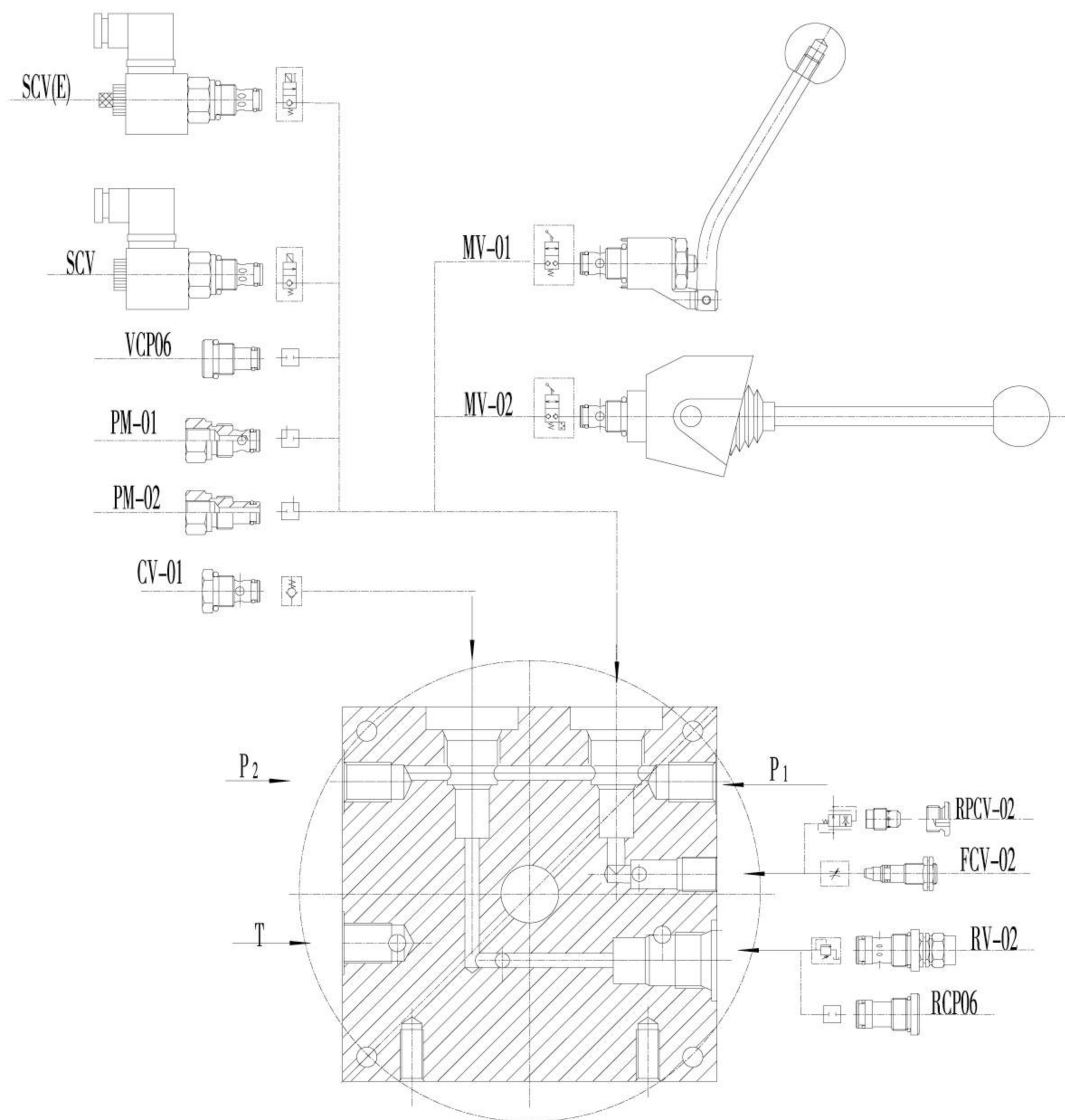
Loosen the tight nut--- with 6mm socket screw wrench, turn right for Flow Rate down; turn left for Flow Rate up ---- tighten the nut after adjustment operation.

### 3. Fitting part of Item 6: Relief Valve **RV-02**

The pressure has been adjusted in regular data in delivery inspection, and user self- adjusting is forbidden for this valve. For necessary adjustment by expert operation guiding:

Loosen the tight nut--- with 3mm socket screw wrench, turn right for pressure up; turn left for pressure down----tighten the nut after adjustment operation.

## 五、部件选配图 Cartaridge Valves Option



# CMB2 中心阀块 Center Manifold



CMB2中心阀块，专门为堆高机而设计，为优质铝合金挤压而成，表面氧化处理。一般MD2160, MD24220电机组组合，外观简洁，经久耐用，操作简单，专业性强。

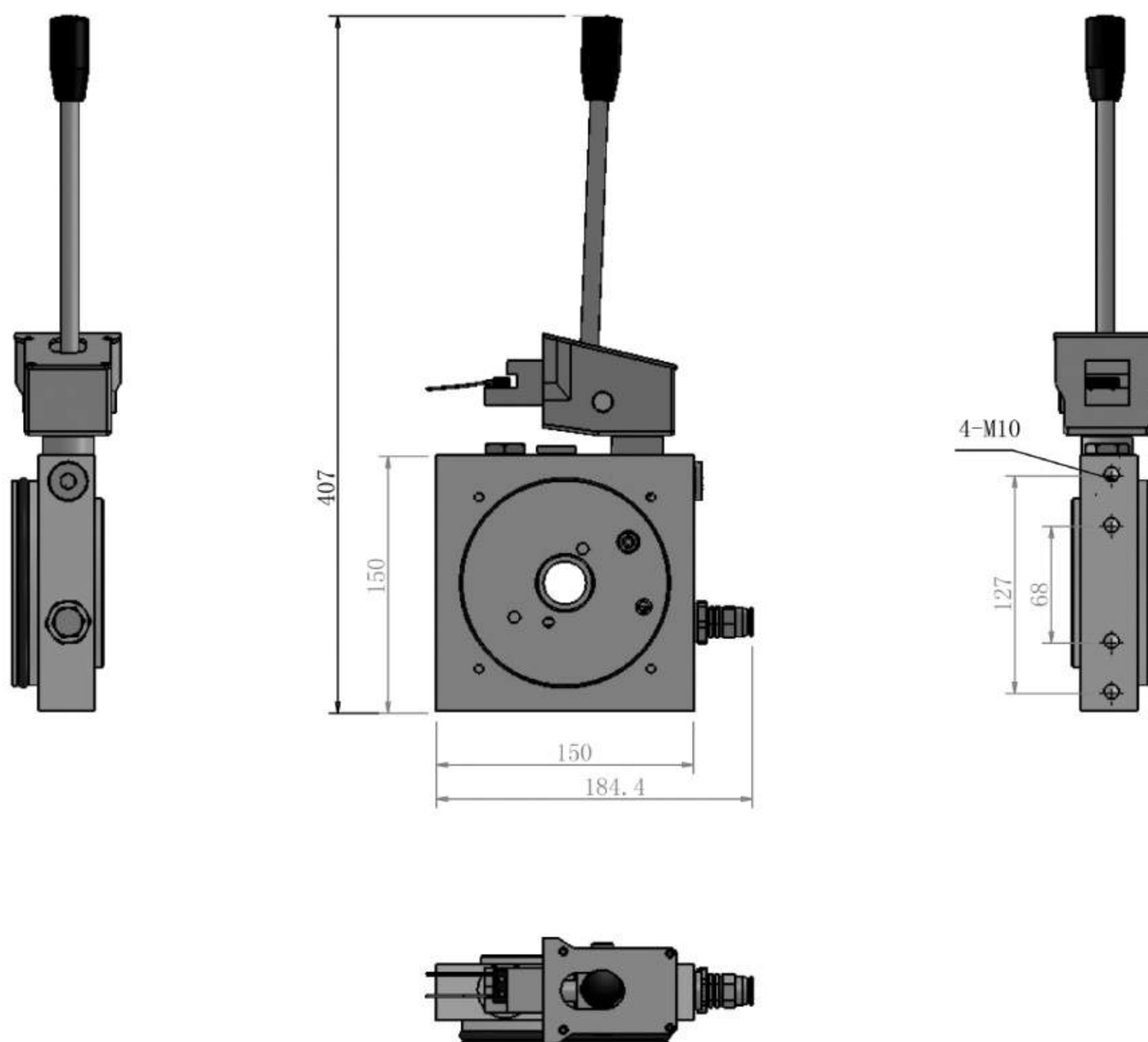
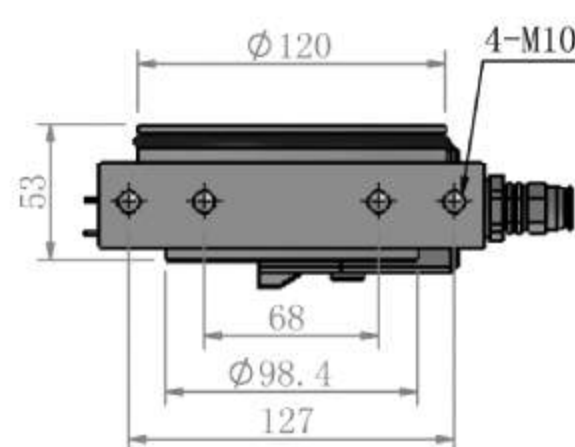
适用的液压原理图: 02、21、23

Gravity Casting Manifold, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement, and special Oxide Film treatment. Especially designed for Electric Pallet Truck, with the succinct instruction, easy operation, stability performance and highly durable service-life.

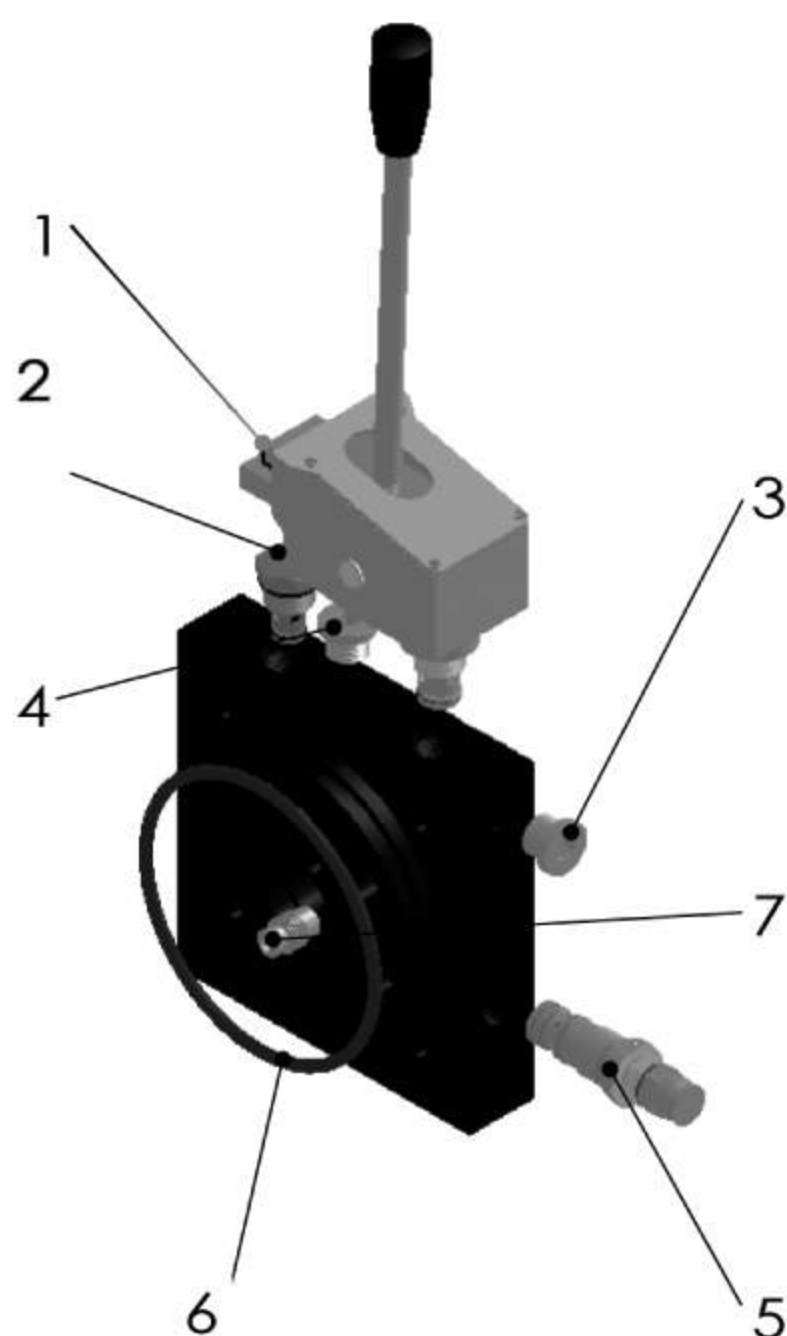
Commonly match DC motor: MD12160 and MD24220

Application available of the hydraulic schematic: 02, 21, 23.

## 一、外形尺寸图 Outline Dimensions

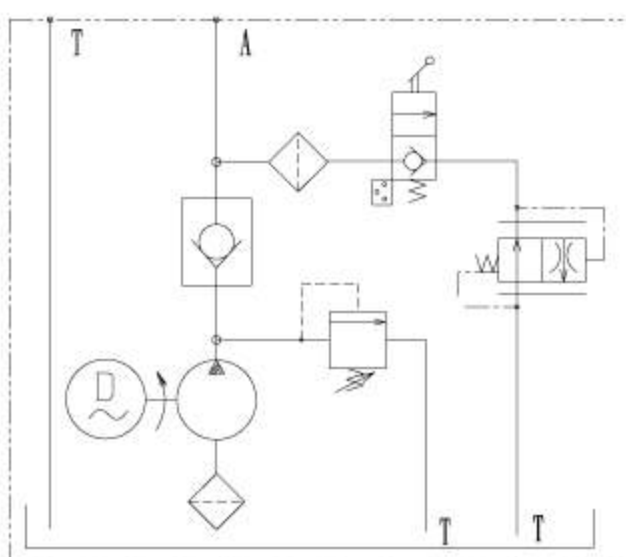


## 二、爆炸图 Exploded Drawing



| 序号<br>Item | 部件名称<br>Part name           | 代码<br>Part code |
|------------|-----------------------------|-----------------|
| 1          | 手动阀                         | MV-03           |
|            | Manual valve                |                 |
| 2          | 单向阀                         | CV-01           |
|            | check valve                 |                 |
| 3          | 压力螺塞G3/8"                   | VP-03           |
|            | Pressure plug G3/8"         |                 |
| 4          | 压力螺塞G3/8"                   | VP-03           |
|            | Pressure plug G3/8"         |                 |
| 5          | 溢流阀                         | RV-03           |
|            | Relief valve                |                 |
| 6          | O型圈                         | Φ 112X4         |
|            | O-ring                      |                 |
| 7          | 压力补偿节流阀                     | RPCV-02         |
|            | pressure compensation Valve |                 |

## 三、典型原理图 Hydraulic Schematic



## 四、使用说明 Operation Directions

- 二位三通手动阀MV-03图示1号零件: 操作时向前推为电机启动, 松开为放油卸压。
- 压力补偿节流阀图示7号零件: 下降速度 (流量) 为选配。
- 调压阀RV-03图示5号零件: 出厂时压力已调节好请不要随意调节, 需要调节压力时, 松开锁紧螺母。
  - 用3mm内六角扳手, 右旋增加压力, 左旋减少压力。
  - 压力调节合适后, 请锁紧螺母。

### 1. Fitting part of Item 1: 2 Position-2 Way Manual Release Valve **MV-03**

Push forward to make the motor start; Push backward and down to make the pressure released and the oil return to tank

### 2. Fitting part of Item 7: Pressure Compensated Down-Speed Control Valve **RPCV-02**

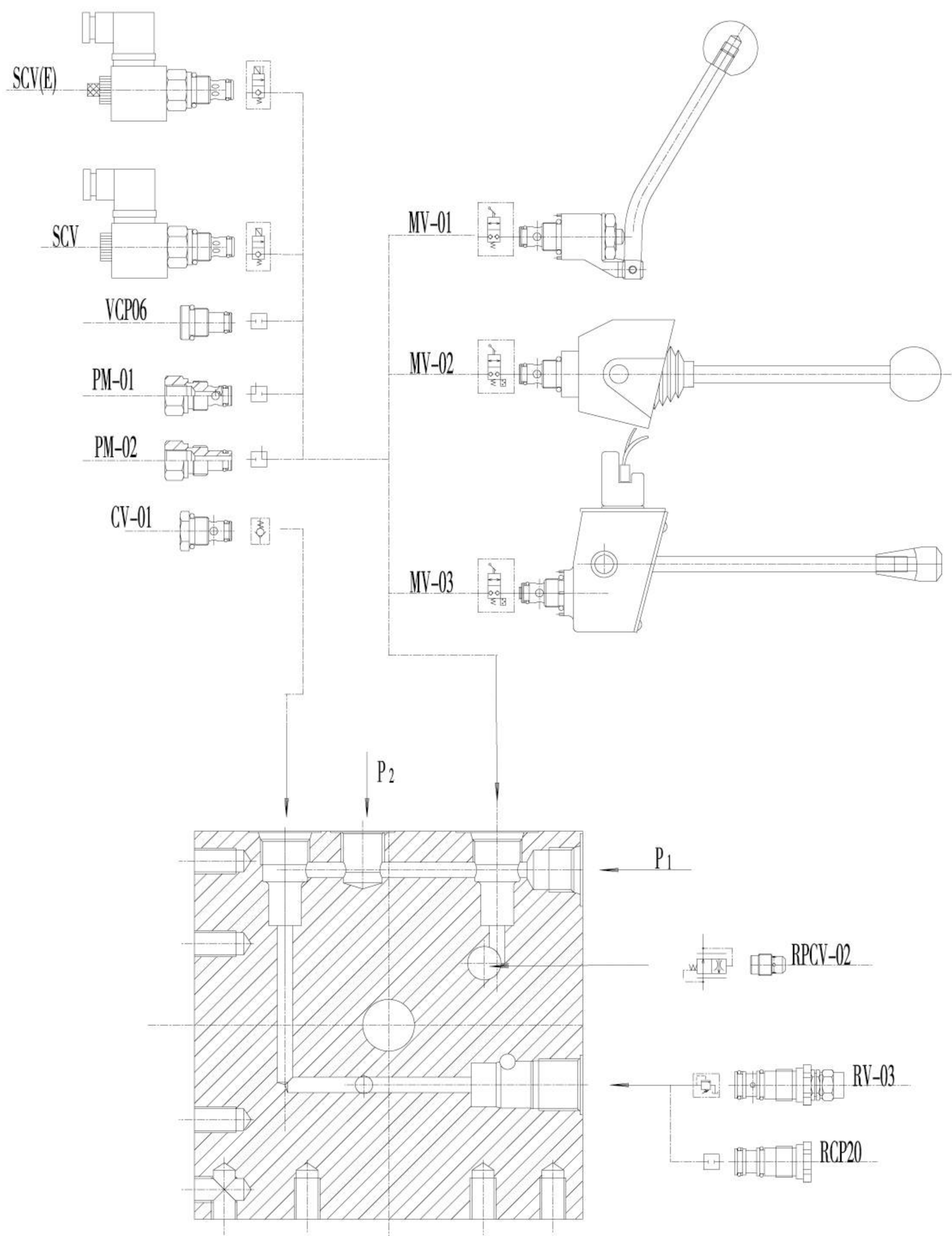
Optional type with different flow rate

### 3. Fitting part of Item 5: Relief Valve **RV-03**

The pressure has been adjusted in regular data in delivery inspection, and user self-adjusting is forbidden for this valve. For necessary adjustment by expert operation guiding:

Loosen the tight nut— with 3mm socket screw wrench, turn right for pressure up; turn left for pressure down—tighten the nut after adjustment operation.

### 五、部件选配图 Cartaridge Valves Option



# CMC1 中心阀块 Center Manifold



CMC1中心阀块，选用优质铝合金精密铸造而成，为实现规模化生产创造了条件。二位三通插装式电磁阀在此阀块上应用，减少空间，组装方便，性能优越，操作简单，专业性强。

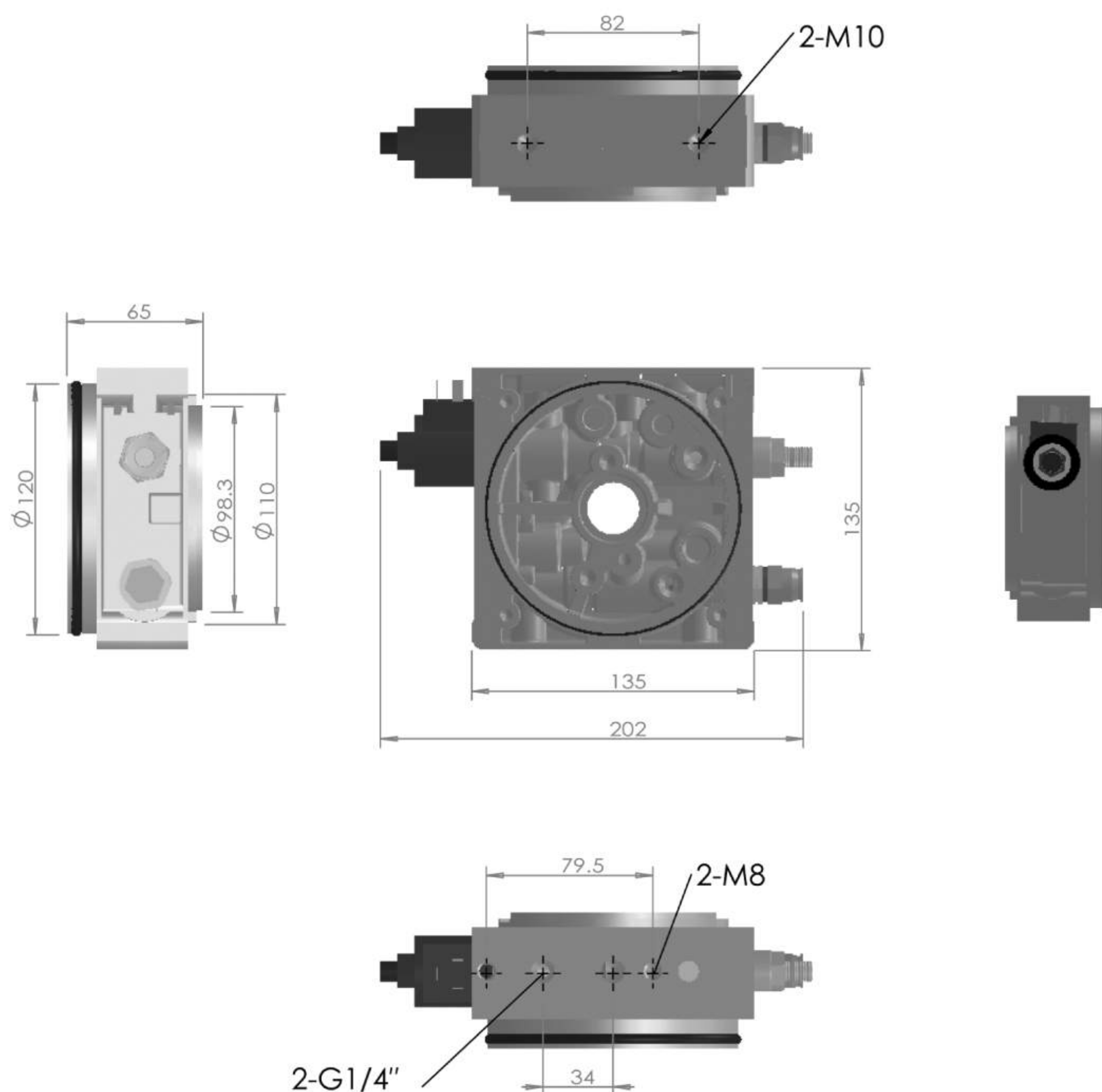
适用的液压原理图: 01、02、05、08、10、11、12、13、14、16、17、21、26、27

Pressure Casting Technology processing, the essential base for mass-production, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement and heat treatment.

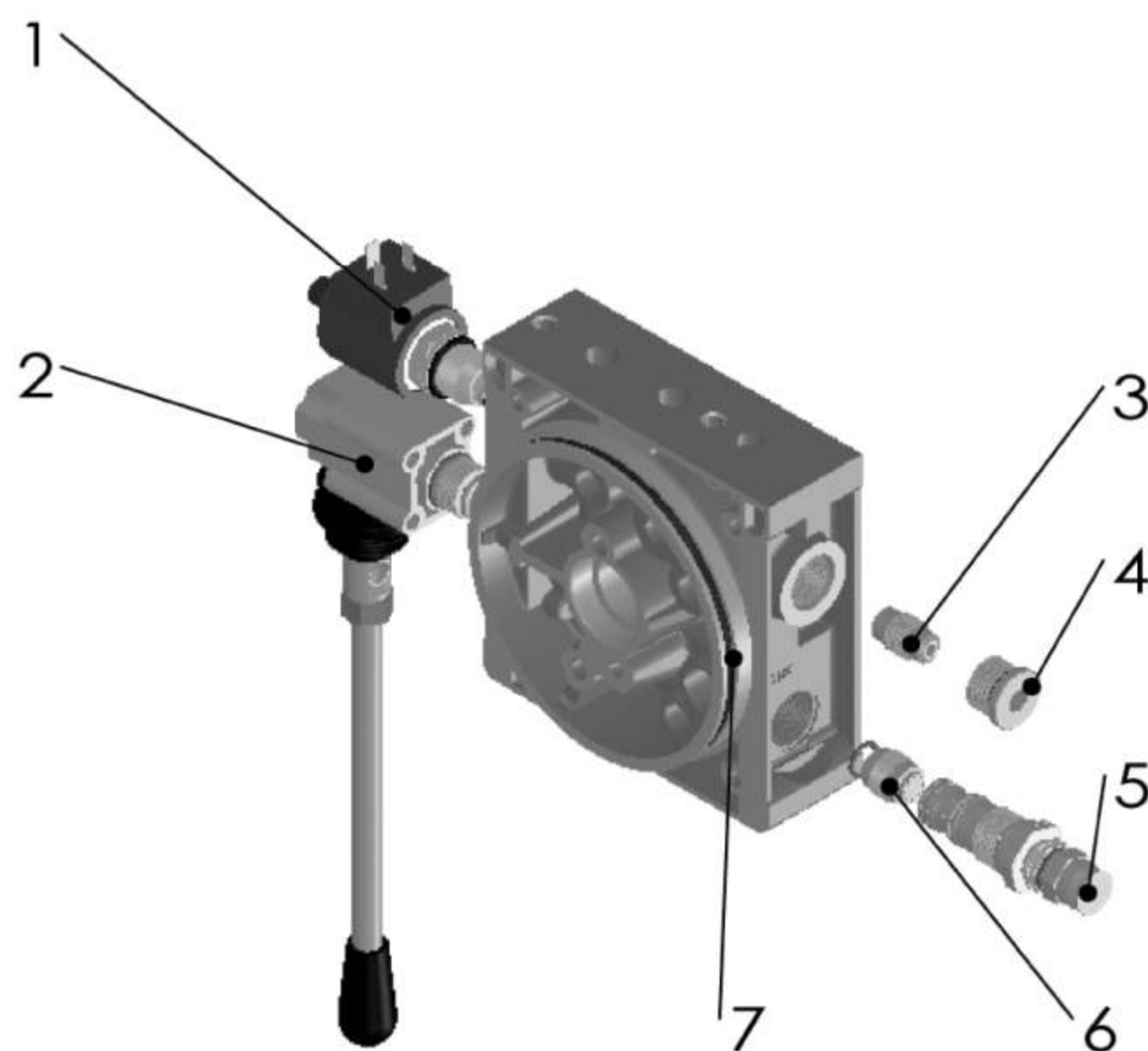
Adoption of the cartridge type 2 position - 2way solenoid release valve to make the fitting space reduction. Convenient assembly, simply operation, stability performance, practical design and function.

Application available of the hydraulics schematic: 01、02、05、08、10、11、12、13、14、16、17、21、26、27

## 一、外形尺寸图 Outline Dimensions

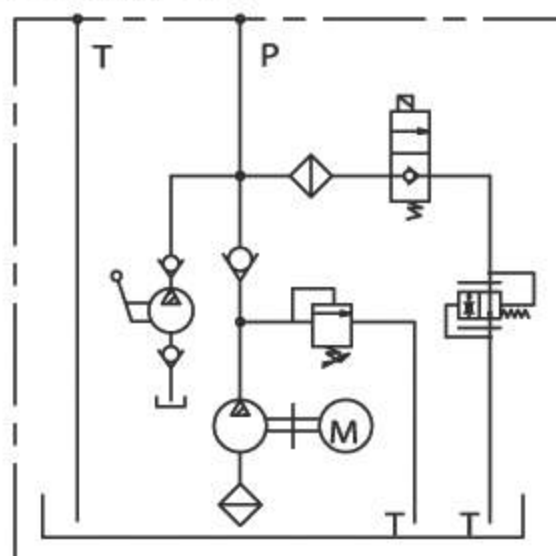


## 二、爆炸图 Exploded Drawing



| 序号<br>Item | 部件名称<br>Part name                      | 代码<br>Part code |
|------------|----------------------------------------|-----------------|
| 1          | 电磁阀<br>Solenoid valve                  | SCV             |
|            |                                        |                 |
| 2          | 手动泵<br>Manual pump                     | HP-02           |
|            |                                        |                 |
| 3          | 压力补偿节流阀<br>pressure compensation Valve | RPCV-02         |
|            |                                        |                 |
| 4          | 压力螺塞<br>Pressure plug                  | VP-06           |
|            |                                        |                 |
| 5          | 溢流阀<br>Relief valve                    | RV-03           |
|            |                                        |                 |
| 6          | 单向阀<br>Check Valve                     | CV-02           |
|            |                                        |                 |
| 7          | O型圈<br>O-ring                          | 112x4           |
|            |                                        |                 |

## 三、典型原理图 Hydraulic Schematic



## 四、使用说明 Operation Directions

- 二位二通附手动、电磁阀SCV(E)图示1号零件
  - ① 应急按钮如果是红色的，向内按往右旋为正常工作。向内按往左旋为松开放油、卸压。
  - ② 应急按钮如果是黄色的，直接右旋为旋紧保压。直接左旋为松开放油、卸压。
- 手动泵图示2号零件：系统失去电源时应急使用，前后摇动手柄为向系统压油、加压。
- 调压阀RV-03图示4号零件：出厂时压力已调节好请不要随意调节。需要调节压力时，松开锁紧螺母，
  - ① 用5mm内六角扳手，右旋增加压力。左旋减少压力
  - ② 压力调节合适后，请锁紧螺母。
- 压力补偿节流阀RPCV-02图示3号零件：下降速度（流量）选配。

### 1. Fitting part of Item 1: 2 Position-2 Way Solenoid Release Valve SCV (E)

- ① With red emergency push button:  
Push and turn right down: pressure holding and oil working  
Push and turn left: pressure released and oil returning to the tank..
- ② With yellow emergency push button:  
Directly turn right down: pressure holding and oil working.  
Directly turn left: pressure released and oil returning to the tank..

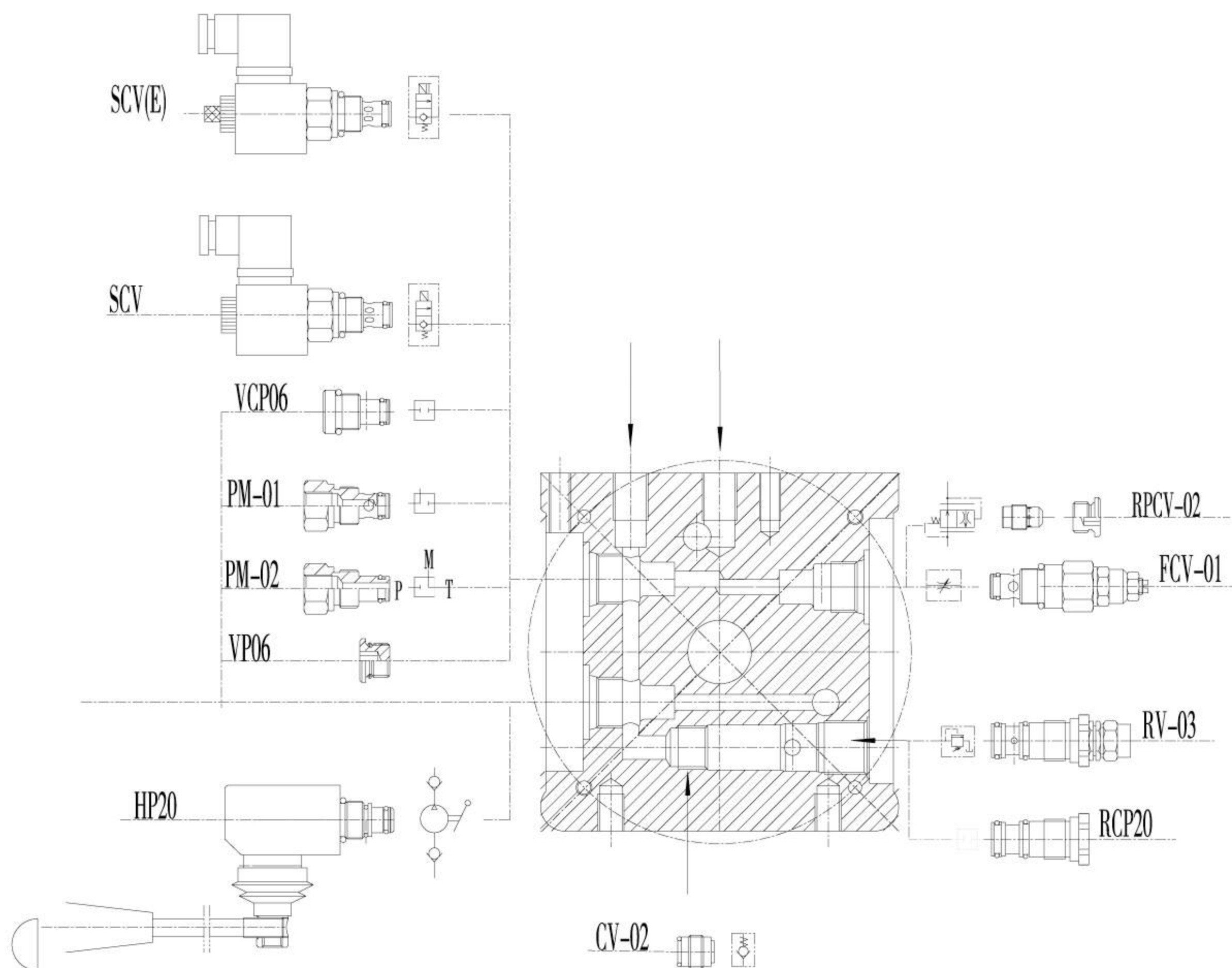
### 2. Fitting part of Item 2: Hand Pump, emergency operation in case of the electric power off. Push forthand back repeatedly to make the oil sucking up form the tank and working.

### 3. Fitting part of Item 4: Relief Valve RV-03

The pressure has been adjusted in regular data in delivery inspection, and user self- adjusting is forbidden for this valve. For necessary adjustment by expert operation guiding:

Loosen the tight nut— with 5mm socket screw wrench, turn right for pressure up; turn left for pressure down——tighten the nut after adjustment operation.

### 五、部件选配图 Cartaridge Valves Option



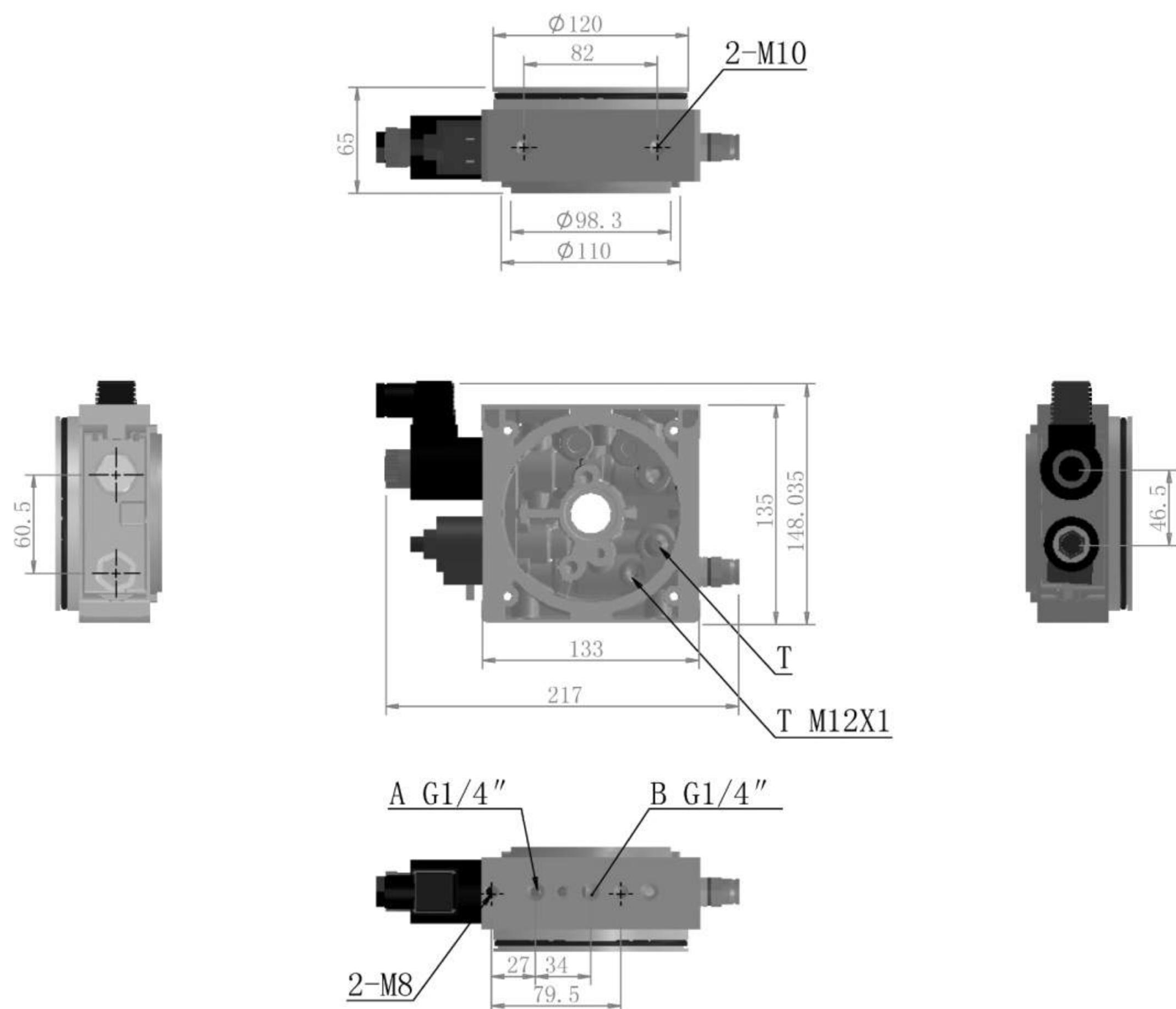
# CMC2 中心阀块 Center Manifold



CMC2中心阀块，选用优质铝合金精密铸造而成，为实现规模化生产创造了条件。二位三通插装式电磁阀在此阀块上应用，减少空间，组装方便，性能优越，操作简单，专业性强。  
适用液压原理图：07

Pressure Casting Technology processing, the essential base for mass-production, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement and heat treatment.  
Adoption of the cartridge type 2 position – 3way solenoid directional valve to make the fitting space reduction. Convenient assembly, simply operation, stability performance, practical design and function.  
Application available of the hydraulics schematic: 07

## 一、外形尺寸图 Outline Dimensions



## How to order VIBO DC Power Units



## VDPU-

Manifold Code

|   | CMA | CMB1 | CMB2 | CMC1 | CMC2 | CMC3 | CMD1 | CMD2 | CMD3 | CME | CMF | CML |
|---|-----|------|------|------|------|------|------|------|------|-----|-----|-----|
| A | 1   | 1    | 2    | 1    | 2    | 3    | 1    | 2    | 3    | E   | F   | L   |

|    |    |
|----|----|
| UA | KA |
| UB | KB |
| UC | KC |
| UD | KD |
| UE | KE |
| UF | KF |
| UG | KG |
| UH | KH |
| UI | KI |

|   |         |
|---|---------|
| A | DC 12V  |
| B | DC 24V  |
| C | MV-01   |
| D | MV-02   |
| E | MV-03   |
| N | Without |

|       |            |
|-------|------------|
| H     | Horizontal |
| H1-H6 |            |
| V     | Vertical   |
| V1-V5 |            |

A-P

|   |          |
|---|----------|
| D | 10 MPa   |
| E | 16 MPa   |
| F | 20 MPa   |
| G | 28 MPa   |
| H | 31.5 MPa |

01→28

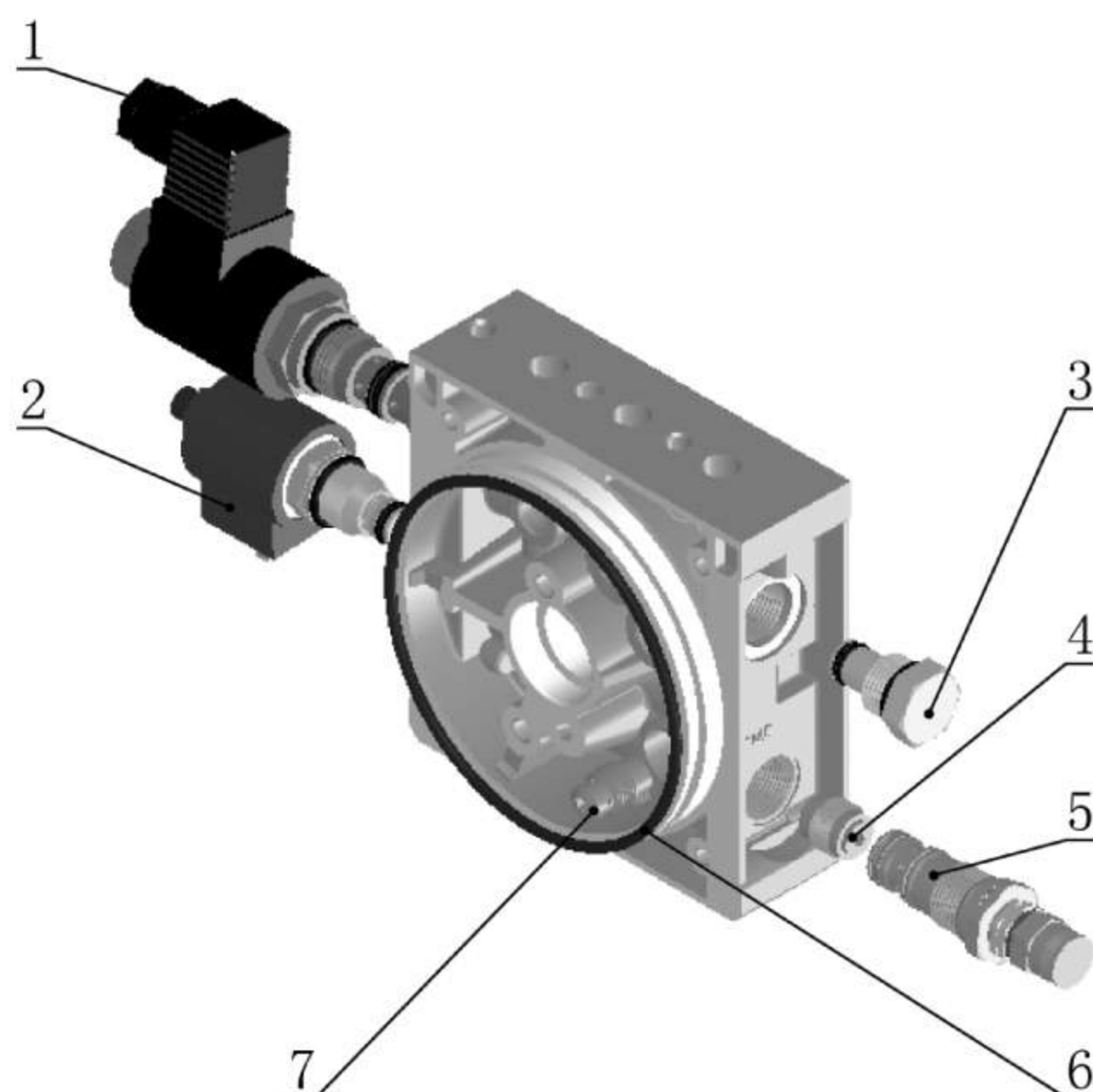
|       |       |       |       |       |       |      |      |      |        |        |      |      |      |
|-------|-------|-------|-------|-------|-------|------|------|------|--------|--------|------|------|------|
| A     | B     | C     | D     | E     | F     | G    | H    | I    | J      | K      | L    | M    | N    |
| 1.7 L | 2.8 L | 4.0 L | 5.0 L | 6.0 L | 8.0 L | 10 L | 12 L | 14 L | 3 gal. | 5 gal. | 15 L | 20 L | 30 L |

\*塑料油箱请加 (P)  
\*Plastic tank add (P)

| A | M14*1.5  |
|---|----------|
| B | M16*1.5  |
| C | 1/4"BSPP |
| D | 3/8"BSPP |
| E | 3/8"NPT  |

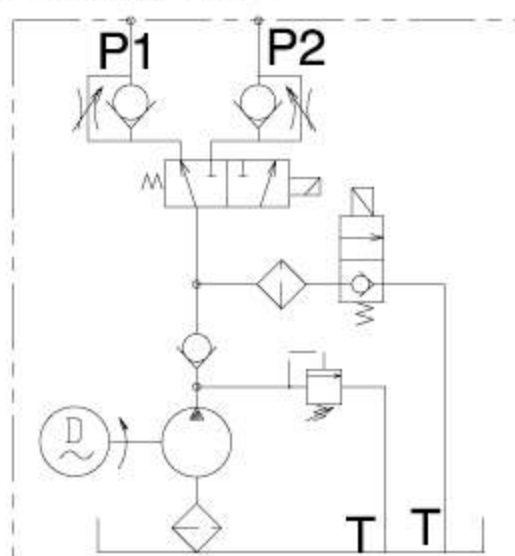
| 电机<br>Motor | 型号<br>Dype | 电压<br>(V) | 功率<br>(Kw) |
|-------------|------------|-----------|------------|
| A1          | MD12080    | 12        | 0.80       |
| A2          | MD24080    | 24        | 0.80       |
| A3          | MD48080    | 48        | 0.80       |
| C1          | MD12160    | 12        | 1.60       |
| C2          | MD24220    | 24        | 2.20       |
| D1          | MD12260    | 12        | 2.60       |
| D2          | MD24300    | 24        | 3.50       |
| T1          | MD12200    | 12        | 2.00       |
| T2          | MD24200    | 24        | 2.00       |

## 二、爆炸图 Exploded Drawing



| 序号<br>Item | 部件名称<br>Part name           | 代码<br>Part code |
|------------|-----------------------------|-----------------|
| 1          | 二位三通电磁阀                     | SCV23           |
|            | Solenoid Valve 2 links      |                 |
| 2          | 二位二通电磁阀                     | SCV (E)         |
|            | 2 Two-solenoid valve        |                 |
| 3          | 堵塞3/4" -16UNF               | VCP-06          |
|            | Plug 3 / 4 " -16UNF         |                 |
| 4          | 单向阀                         | CV-02           |
|            | Check valve                 |                 |
| 5          | 溢流阀                         | RV-03           |
|            | Relief valve                |                 |
| 6          | O型圈                         | Ø112x4          |
|            | O-ring                      |                 |
| 7          | 压力补偿节流阀                     | RPCV-02         |
|            | pressure compensation valve |                 |

## 三、典型原理图 Hydraulic Schematic



## 四、使用说明 Operation Directions

1、二位三通电磁阀SV23图示1号零件

2、二位二通附手动、电磁阀SCV (E) 图示1号零件

① 应急按钮如果是红色的，向内按往右旋为正常工作。向内按往左旋为松开放油、卸压。

② 应急按钮如果是黄色的，直接右旋为旋紧保压。直接左旋为松开放油、卸压。

3、调压阀RV-03图示5号零件：出厂时压力已调节好请不要随意调节。

① 用5mm内六角扳手，右旋增加压力。左旋减少压力。

② 压力调节合适后，请锁紧螺母。

4、压力补偿节流阀RPCV-02图示7号零件：下降速度（流量）选配。

**1. Fitting part of Item 1:** 2 Position-3 Way Solenoid Release Valve **SV23**

**2. Fitting part of Item 2:** 2 Position-2 Way Solenoid Release Valve **SCV (E)**

① With red emergency push button: Push and turn right down: pressure holding and oil working Push and turn left: pressure released and oil returning to the tank..

② With yellow emergency push button: Directly turn right down: pressure holding and oil working. Directly turn left: pressure released and oil returning to the tank.

**3. Fitting part of Item 5:** Relief Valve **RV-03**

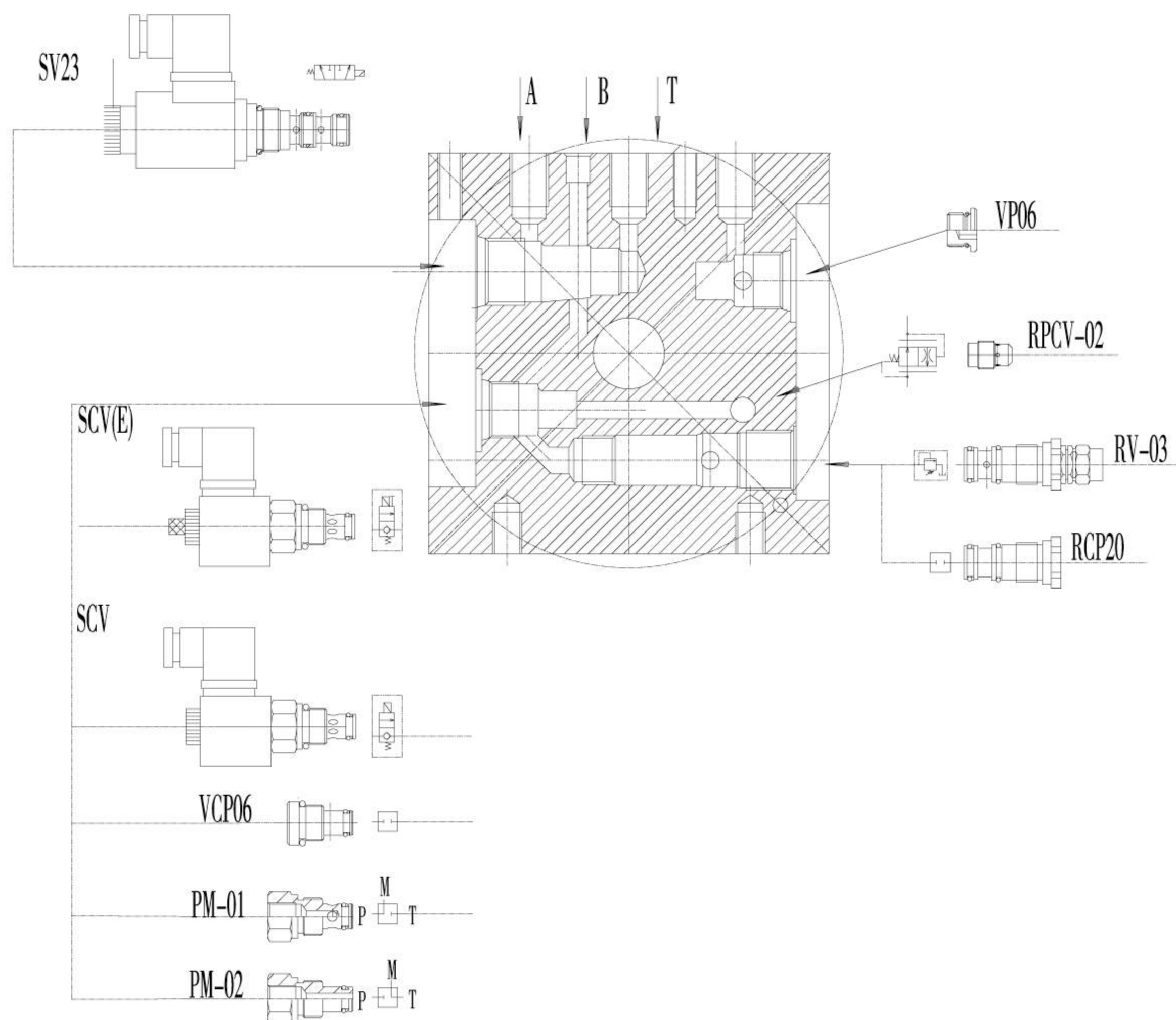
The pressure has been adjusted in regular data in delivery inspection, and user self- adjusting is forbidden for this valve. For necessary adjustment by expert operation guiding:

Loosen the tight nut— with 5mm socket screw wrench, turn right for pressure up; turn left for pressure down—tighten the nut after adjustment operation.

**4. Fitting part of Item 7:** Pressure Compensated Down-Speed Control Valve **RPCV**

Optional type with different flow rate

五、部件选配图 Cartaridge Valves Option



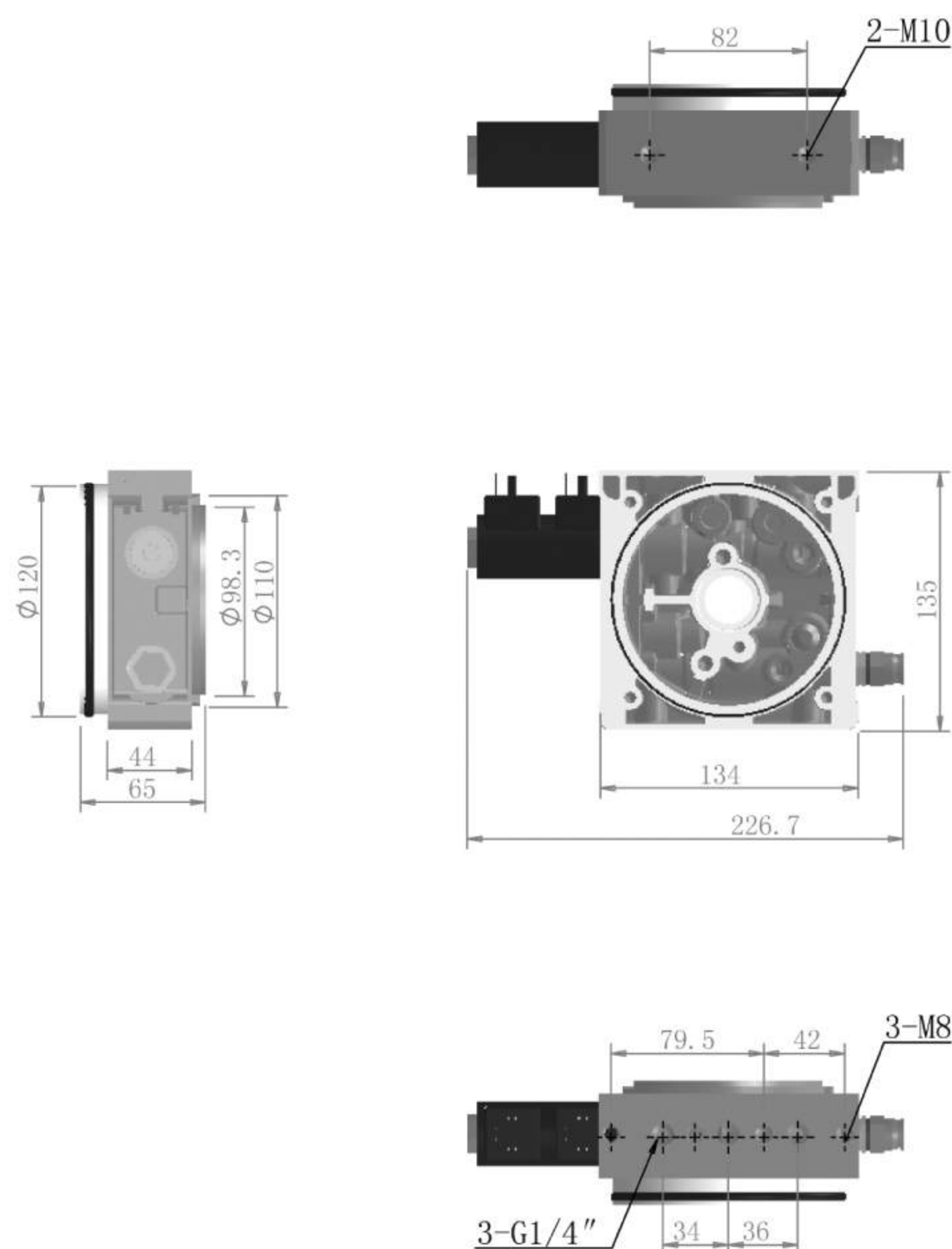
# CMC3 中心阀块 Center Manifold



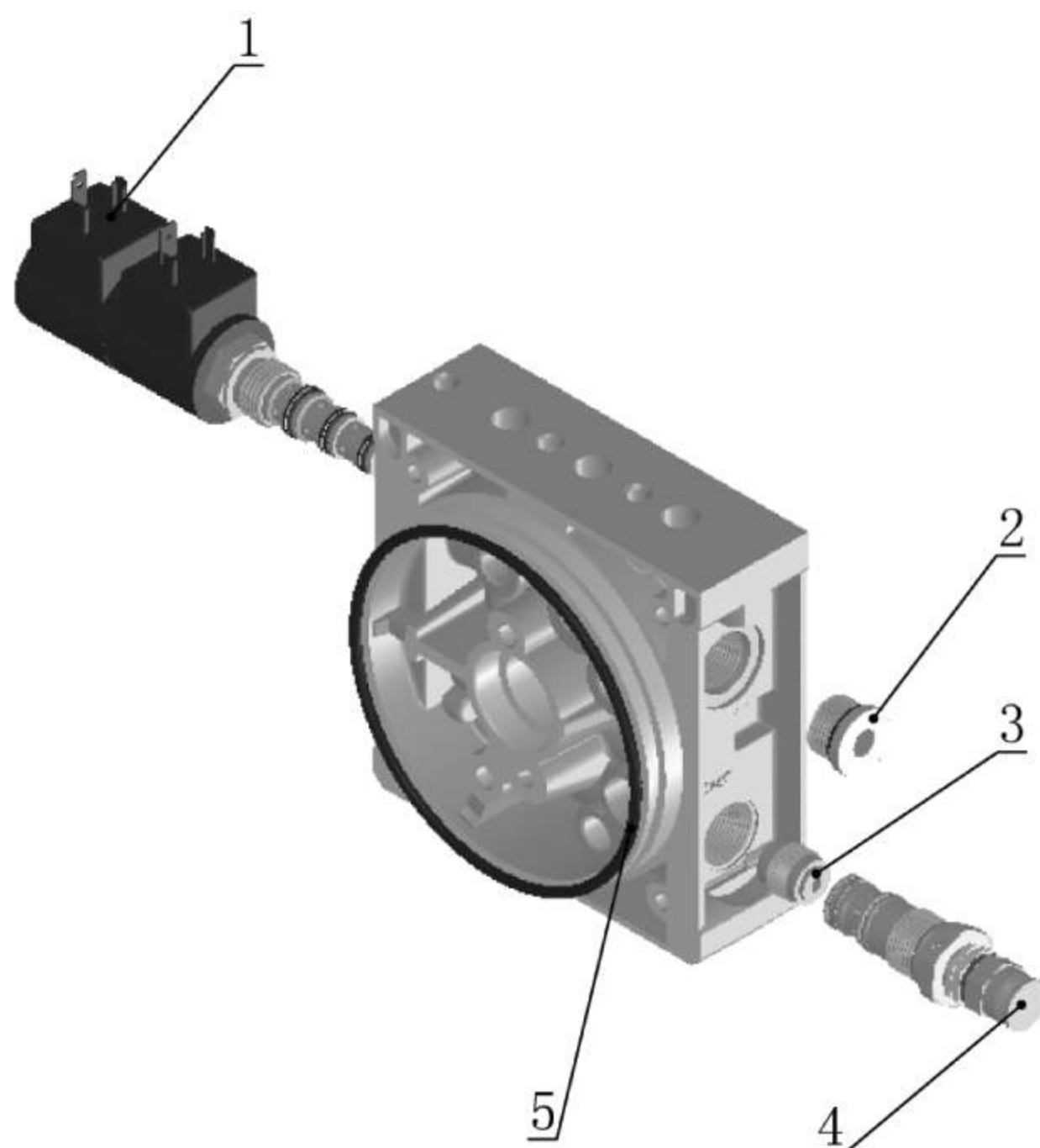
CMC3中心阀块，选用优质铝合金精密铸造而成，为实现规模化生产创造了条件。三位四通插装式电磁阀在此阀块上应用，减少空间、组装方便、性能优越、操作简单、专业性强。  
适用液压原理图：10、12

Pressure Casting Technology processing, the essential base for mass-production, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement and heat treatment.  
Adoption of the cartridge type 3 position - 4way solenoid directional valve to make the fitting space reduction. Convenient assembly, simply operation, stability performance, practical design and function.  
Application available of the hydraulics schematic: 10, 12

## 一、外形尺寸图 Outline Dimensions

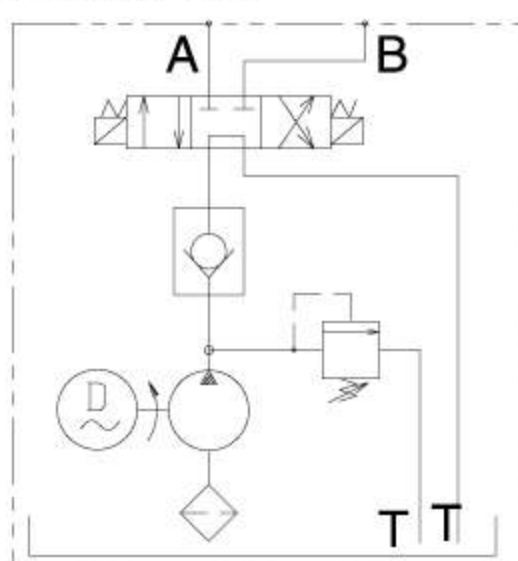


## 二、爆炸图 Exploded Drawing



| 序号<br>Item | 部件名称<br>Part name                       | 代码<br>Part code |
|------------|-----------------------------------------|-----------------|
| 1          | 三位四通电磁阀<br>Three of four solenoid valve | SV34            |
|            |                                         |                 |
| 2          | 堵塞3/4" -16UNF<br>Plug 3/4 "-16UNF       | VP-06           |
|            |                                         |                 |
| 3          | 单向阀<br>Check valve                      | CV-02           |
|            |                                         |                 |
| 4          | 溢流阀<br>Relief valve                     | RV-03           |
|            |                                         |                 |
| 5          | O型圈<br>O-ring                           | Ø112x4          |
|            |                                         |                 |

## 三、典型原理图 Hydraulic Schematic



## 四、使用说明 Operation Directions

- 三位四通电磁阀SV34图示1号零件
- 调压阀RV-03图示4号零件：出厂时压力已调节好请不要随意调节。需要调节压力时，松开锁紧螺母。
  - 用5mm内六角扳手，右旋增加压力，左旋减少压力。
  - 压力调节合适后，请锁紧螺母。

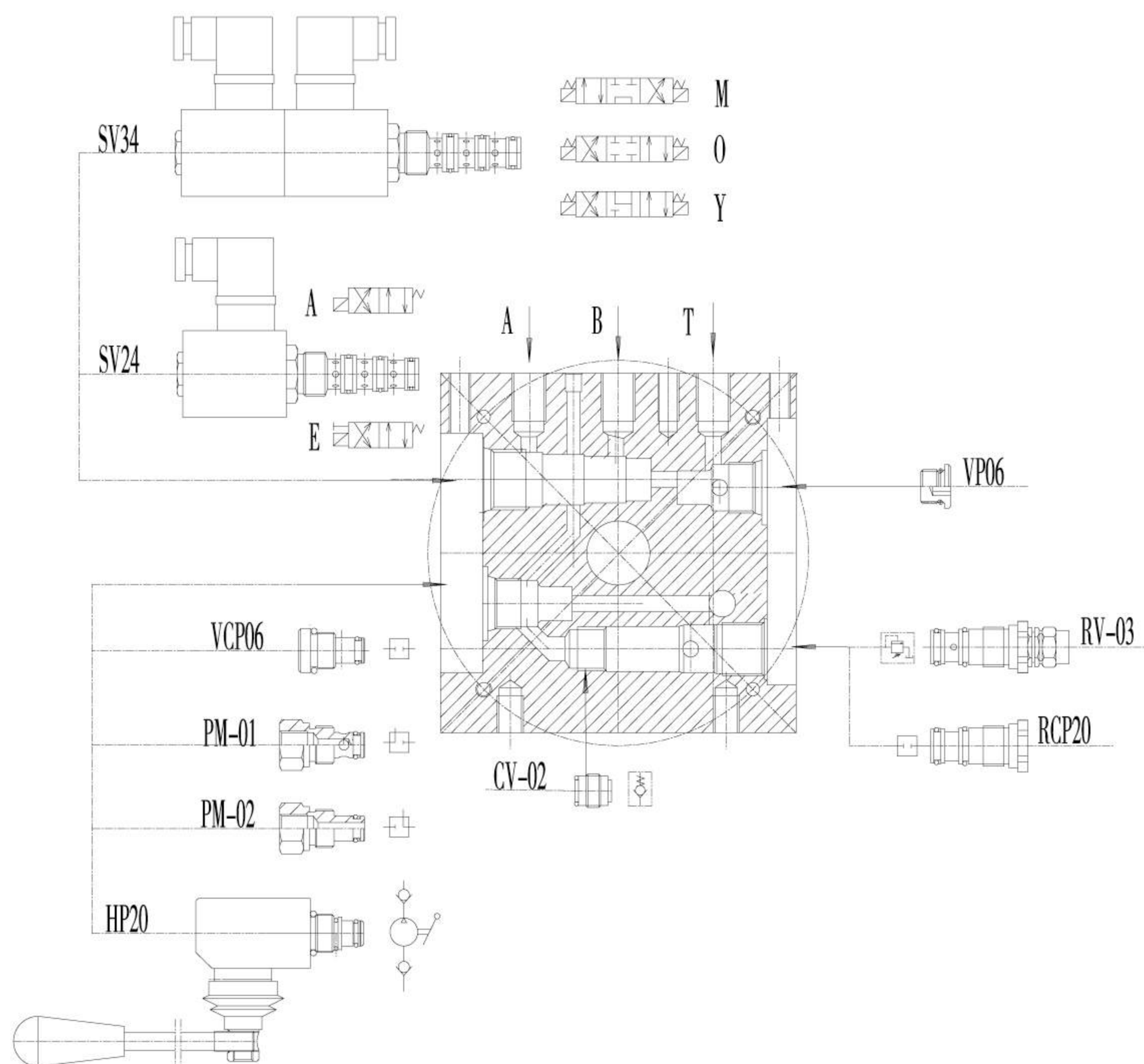
### 1. Fitting part of Item 1: 3 Position-4 Way Solenoid directional Valve **SV34**

### 2. Fitting part of Item 4: Relief Valve **RV-03**

The pressure has been adjusted in regular data in delivery inspection, and user self-adjusting is forbidden for this valve. For necessary adjustment by expert operation guiding:

Loosen the tight nut—— with 5mm socket screw wrench, turn right for pressure up; turn left for pressure down——tighten the nut after adjustment operation.

五、部件选配图 Cartaridge Valves Option



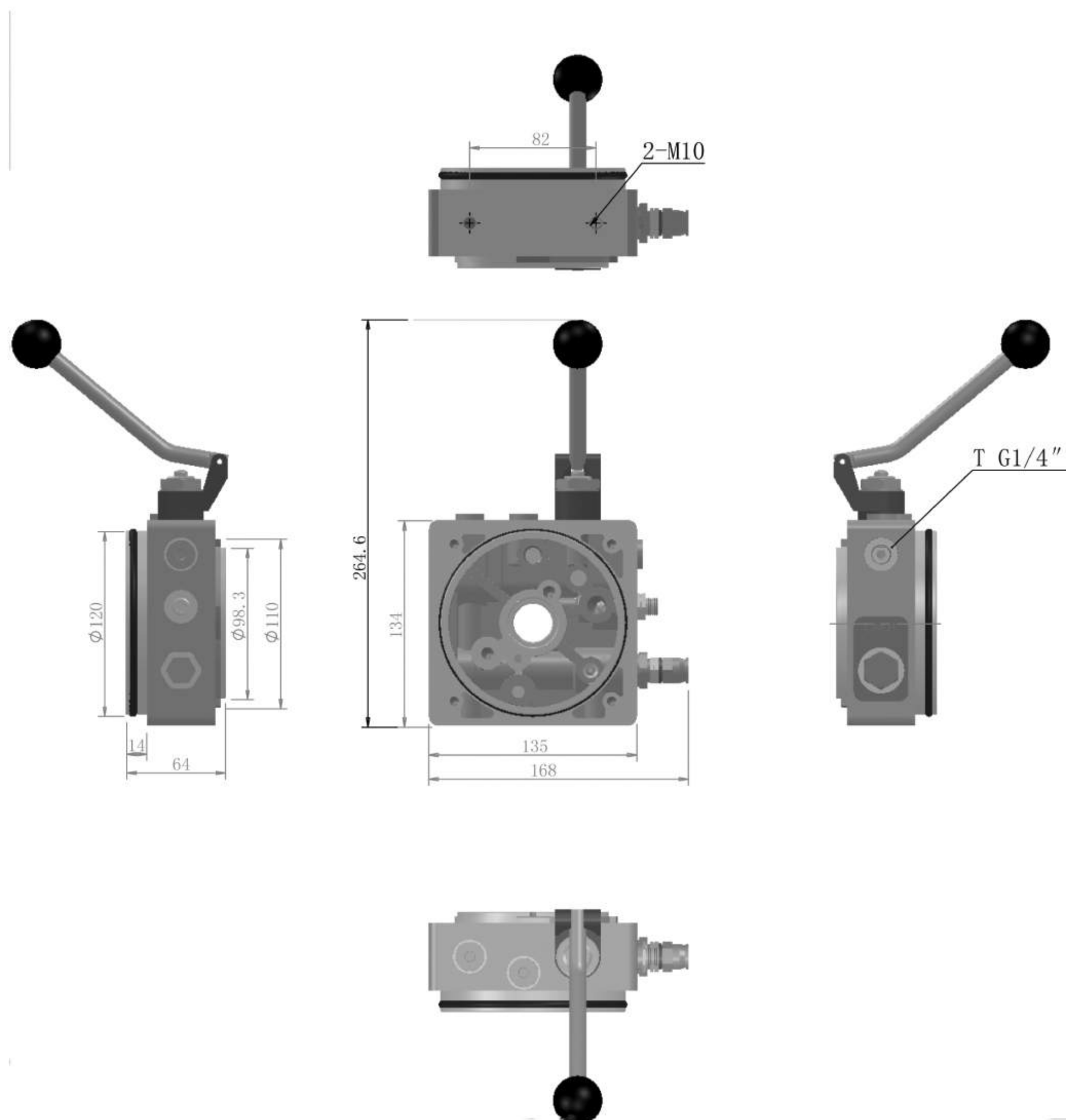
# CMD1 中心阀块 Center Manifold



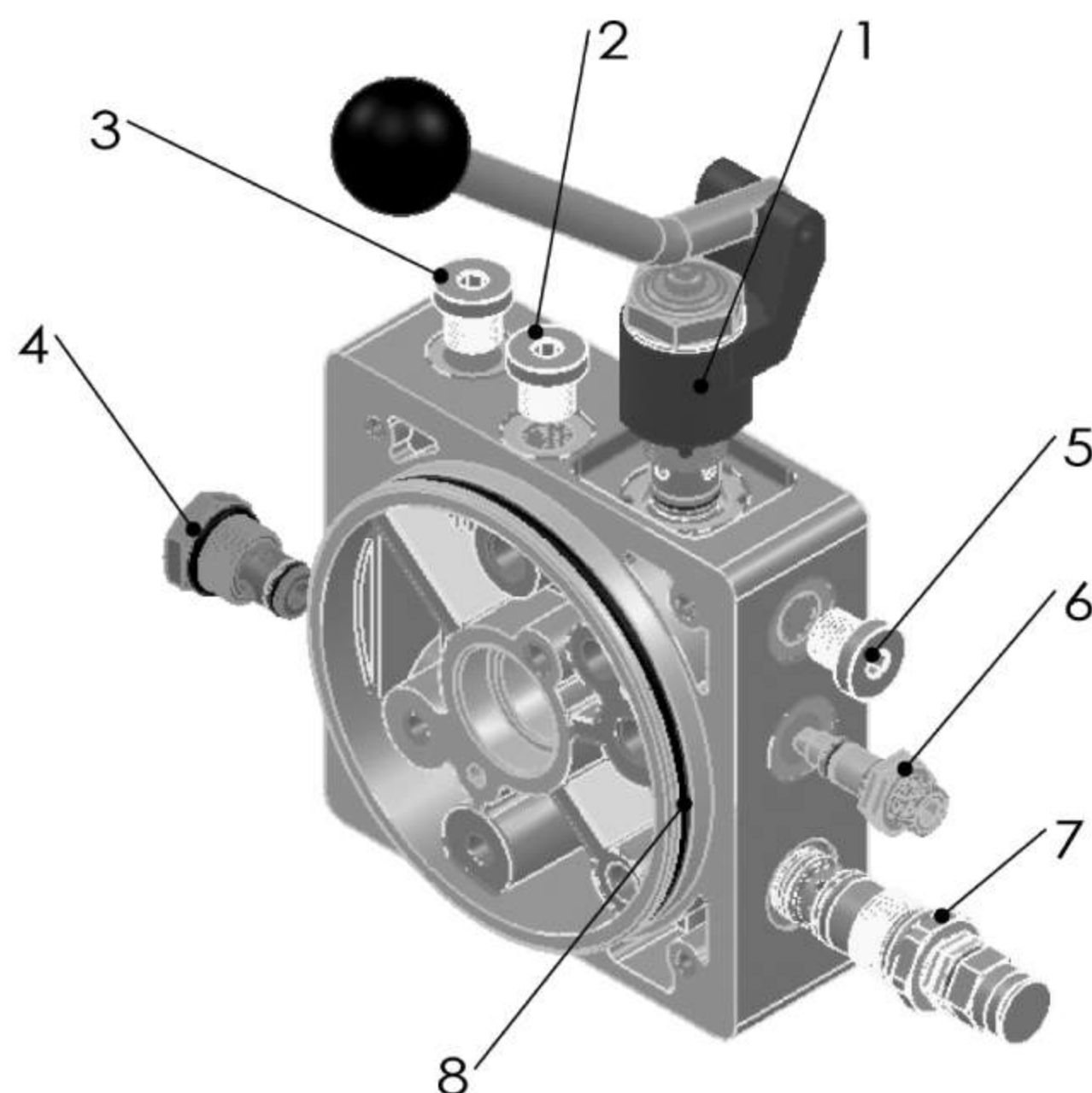
CMD1中心阀块，选用优质铝合金精密铸造而成，为实现规模化生产创造了条件。一般与380V、220V、110V等铝壳交流电机组组合，组装方便，性能优越，操作简单，专业性强。  
适用液压原理图：01、02、03、05、21、22、23、24

Pressure Casting Technology processing, the essential base for mass-production, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement and heat treatment. Convenient assembly, simply operation, stability performance, practical design and function. Commonly match with aluminum case AC motor of voltage: 380V, 220V, 110V. Application available of the hydraulics schematic: 01、02、03、05、21、22、23、24

## 一、外形尺寸图 Outline Dimensions

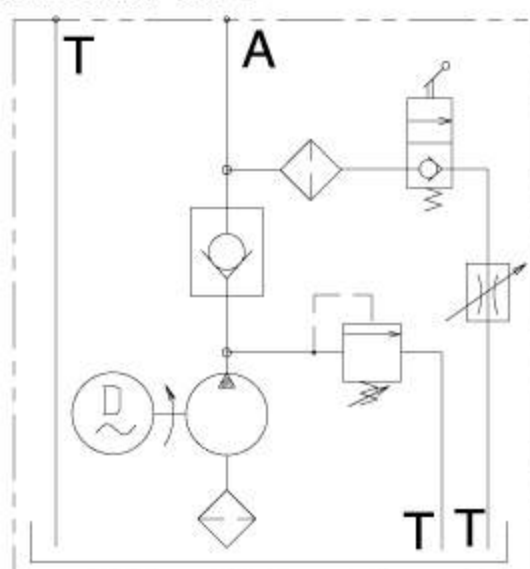


## 二、爆炸图 Exploded Drawing



| 序号<br>Item | 部件名称<br>Part name  | 代码<br>Part code |
|------------|--------------------|-----------------|
| 1          | Manual valve       | MV-01           |
|            | 手动阀                |                 |
| 2          | 压力螺塞 G1/4"         | VP-02           |
|            | Pressure plug      |                 |
| 3          | 压力螺塞 G1/4"         | VP-02           |
|            | Pressure plug      |                 |
| 4          | 单向阀                | CV-01           |
|            | check valve        |                 |
| 5          | 压力螺塞 G1/4"         | VP-02           |
|            | Pressure plug      |                 |
| 6          | 节流阀                | FCV-02          |
|            | Flow control valve |                 |
| 7          | 溢流阀                | RV-03           |
|            | Relief valve       |                 |
| 8          | O型圈                | φ 112X4         |
|            | O-ring             |                 |

## 三、典型原理图 Hydraulic Schematic



## 四、使用说明 Operation Directions

- 二位三通手动阀MV-01图示1号零件操作时向下按为放油卸压, 松开为保压正常工作
- 下降节流阀图示6号零件: 调节时松开锁紧螺母, 用6mm内六角扳手调节, 右旋为减小流量, 左旋为增大流量, 流量调节合适后, 请锁紧螺母。
- 调压阀RV-03图示7号零件: 出厂时压力已调节好请不要随意调节。需要调节压力时, 松开锁紧螺母。
  - 用3mm内六角扳手, 右旋增加压力, 左旋减少压力。
  - 压力调节合适后, 请锁紧螺母。

### 1. Fitting part of Item 1: 2 Position-2 Way Manual Release Valve MV-01

Push and down to make the pressure released and the oil return to tank; loose and free state: pressure holding and the oil working.

### 2. Fitting part of Item 6: Adjustable Down-Speed Control Valve FCV-02

For necessary adjustment by expert operation guiding:

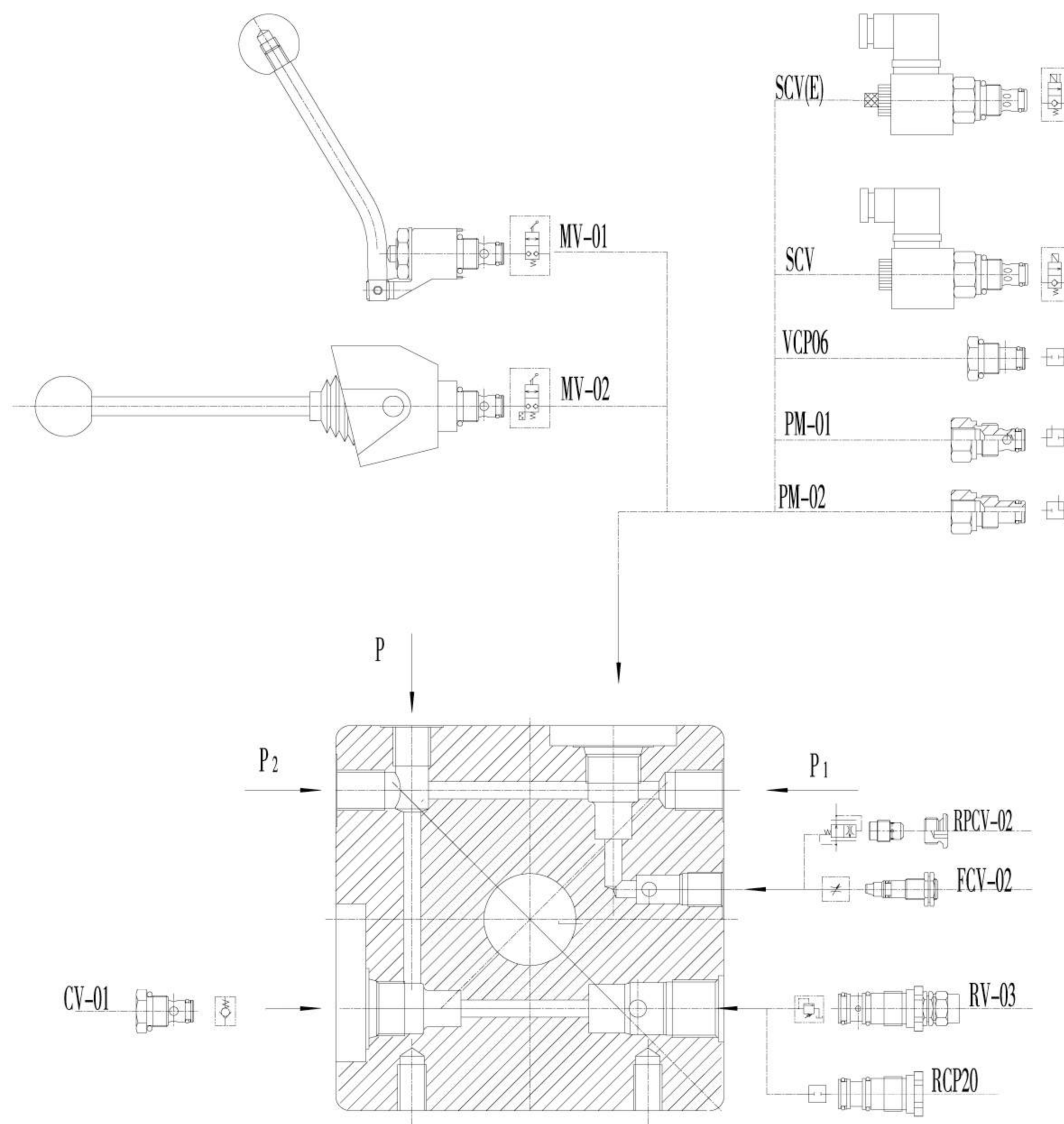
Loosen the tight nut—— with 6mm socket screw wrench, turn right for Flow Rate down; turn left for Flow Rate up —— tighten the nut after adjustment operation.

### 3. Fitting part of Item 7: Relief Valve RV-03

The pressure has been adjusted in regular data in delivery inspection, and user self- adjusting is forbidden for this valve. For necessary adjustment by expert operation guiding:

Loosen the tight nut—— with 5mm socket screw wrench, turn right for pressure up; turn left for pressure down——tighten the nut after adjustment operation.

### 五、部件选配图 Cartaridge Valves Option



# CMD2 中心阀块 Center Manifold



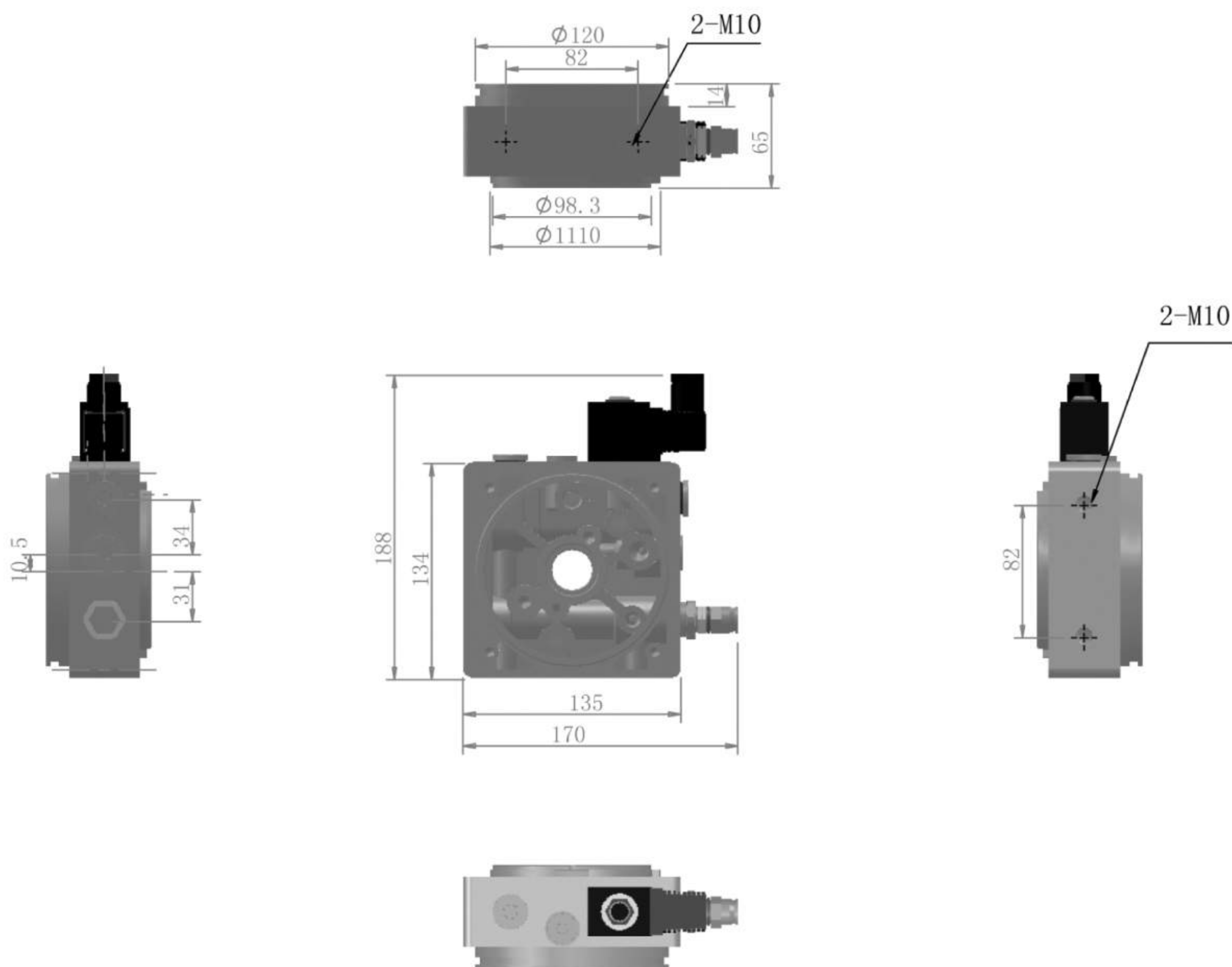
CMD2中心阀块，选用优质铝合金精密铸造而成，为实现规模化生产创造了条件。一般与DC12V、DC24V、AC380V、AC220V等交、直流电机组合，具备了两个安装面，方便了客户使用。1和4两个压力油口可任选。组装方便，性能优越，操作简单，适应性强。

适用液压原理图：02、21、22、23、24、27

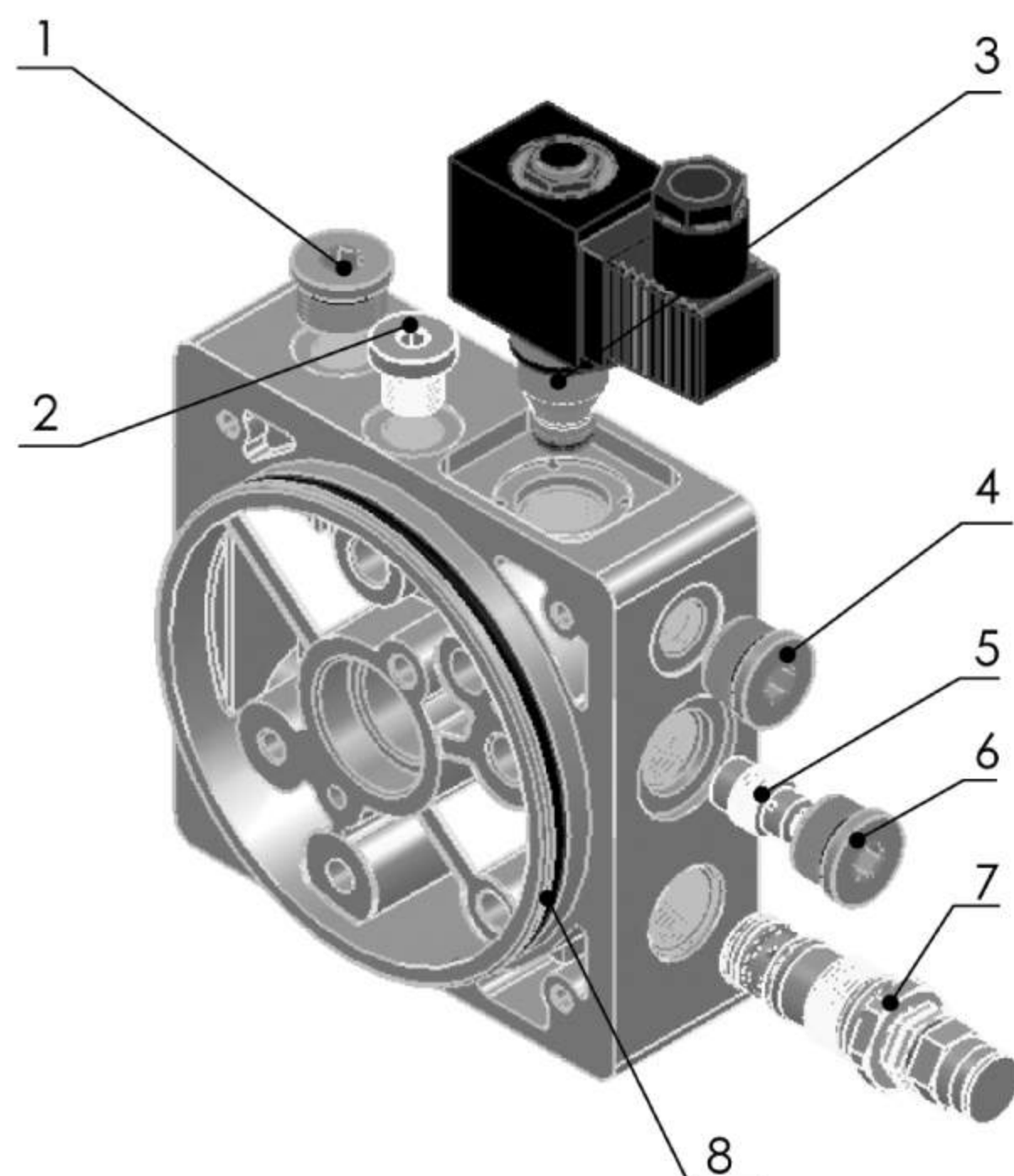
Pressure Casting Technology processing, the essential base for mass-production, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement and heat treatment. Especially design for the application of two mounting face and two pressure oil port. Convenient assembly, simply operation, stability performance, practical function. Commonly match with aluminum case AC motor of 380V, 220V, or DC Motor of 12V, 24V.

Application available of the hydraulics schematic: 02, 21, 22, 23, 24, 27

## 一、外形尺寸图 Outline Dimensions

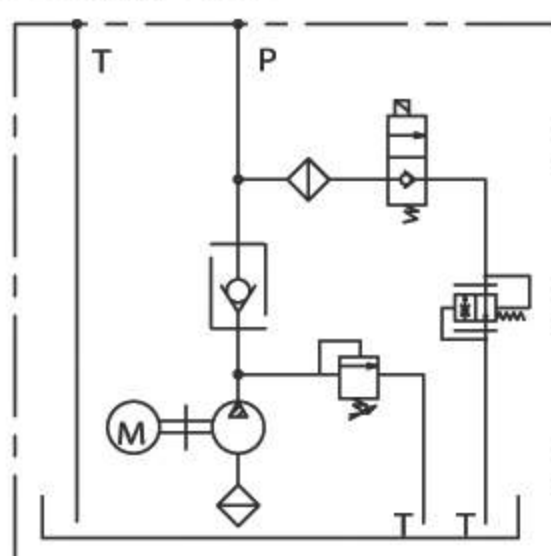


## 二、爆炸图 Exploded Drawing



| 序号<br>Item | 部件名称<br>Part name           | 代码<br>Part code |
|------------|-----------------------------|-----------------|
| 1          | P口 螺塞G3/8"                  | vp03            |
|            | P port plug                 |                 |
| 2          | T口 螺塞G1/4"                  | VP02            |
|            | T port plug                 |                 |
| 3          | 电磁阀                         | SCV             |
|            | Solenoid valve              |                 |
| 4          | P口 螺塞G3/8"                  | VP03            |
|            | P port plug                 |                 |
| 5          | 压力补偿节流阀                     | RPCV-02         |
|            | pressure compensation valve |                 |
| 6          | 压力螺塞3/4" -16                | VP-03           |
|            | Pressure plug               |                 |
| 7          | 溢流阀                         | RV-03           |
|            | Relief valve                |                 |
| 8          | O型圈                         | φ 112x4         |
|            | O-ring                      |                 |

## 三、典型原理图 Hydraulic Schematic



## 四、使用说明 Operation Directions

### 1、二位三通附手动、电磁阀SCV(E) 图示3号零件

- ① 应急按钮如果是红色的，操作时向内按往右旋为保压正常工作。向内按往左旋为松开放油、卸压。
- ② 应急按钮如果是黄色的，操作时直接右旋为旋紧保压正常工作，直接左旋为松开放油。

### 2、压力流量补偿阀图示5号零件

### 3、调压阀RV-03图示7号零件：出厂时压力已调节好请不要随意调节，需要调节压力时，松开锁紧螺母。

- ① 用3mm内六角扳手，右旋增加压力，左旋减少压力。

- ② 压力调节合适后，请锁紧螺母。

### 1. Fitting part of Item 1: 2 Position-2 Way Solenoid Release Valve with emergency push button **SCV (E)**

- ① With red emergency push button:

Push and turn right down: pressure holding and oil working

Push and turn left: pressure released and oil returning to the tank..

- ② With yellow emergency push button:

Directly turn right down: pressure holding and oil working.

Directly turn left: pressure released and oil returning to the tank..

### 2. Fitting part of Item 5: Pressure Compensated Down-Speed Control Valve **RPCV-02**

Optional type with different flow rate

### 3. Fitting part of Item 7: Relief Valve **RV-03**

The pressure has been adjusted in regular data in delivery inspection, and user self- adjusting is forbidden for this valve. For necessary adjustment by expert operation guiding:

Loosen the tight nut— with 5mm socket screw wrench, turn right for pressure up; turn left for pressure down—tighten the nut after adjustment operation.

# 怎样订购威博交流动力单元

How to order VIBO AC Power Units



## 怎样订购威博交流动力单元 HOW TO ORDER VIBO AC POWER UNITS

VAPU- \* \* \* \* \*

威博交流动力单元  
VIBO AC Power Units

阀块型号  
Manifold Code

|    |      |
|----|------|
| A  | CMA  |
| B1 | CMB1 |
| B2 | CMB2 |
| C1 | CMC1 |
| C2 | CMC2 |
| C3 | CMC3 |
| D1 | CMD1 |
| D2 | CMD2 |
| D3 | CMD3 |
| E  | CME  |
| F  | CMF  |
| L  | CML  |

齿轮泵  
Gear Pump

|    |    |
|----|----|
| UA | KA |
| UB | KB |
| UC | KC |
| UD | KD |
| UE | KE |
| UF | KF |
| UG | KG |
| UH | KH |
| UI | KI |

电磁阀电压  
Valve Voltage

|   |         |
|---|---------|
| A | DC 12V  |
| B | DC 24V  |
| C | AC 24V  |
| D | AC 110V |
| E | AC 220V |
| N | Without |

系统压力  
System Pressure

|   |        |
|---|--------|
| D | 10 MPa |
| E | 16 MPa |
| F | 20 MPa |
| G | 28 MPa |

液压原理图  
Option Circuit

01 → 28

| 电机<br>Motor | 型号<br>Dype | 电压/功率<br>(V)/(Kw) | 电机<br>Motor | 型号<br>Dype | 电压/功率<br>(V)/(Kw) |
|-------------|------------|-------------------|-------------|------------|-------------------|
| A1          | MS711-2    | 400/0.75          | A2          | ML711-2    | 220/0.75          |
| B2          | MS801-2    | 380/0.75          | H2          | ML801-2    | 220/0.75          |
| B4          | MS801-4    | 380/0.75          | H4          | ML802-4    | 220/0.75          |
| C2          | MS801-2    | 380/1.10          | I2          | ML90S-2    | 220/1.50          |
| C4          | MS801-4    | 380/1.10          | J2          | ML90L1-2   | 220/1.85          |
| D2          | MS90S-2    | 380/1.50          | I4          | ML90L1-4   | 220/1.50          |
| D4          | MS90M1-4   | 380/1.50          | J4          | ML90L2-4   | 220/2.20          |
| E2          | MS90S1-2   | 380/1.85          | R2          | ML90L2-2   | 220/2.20          |
| E4          | MS90M2-4   | 380/1.85          | K2          | ML90S-2    | 110/1.50          |
| F2          | MS90L1-2   | 380/2.20          | K4          | ML90L1-4   | 110/1.50          |
| F4          | MS90L2-4   | 380/2.20          | L2          | ML90L1-2   | 110/1.85          |
| N2          | MS90L2-2   | 380/3.00          | L4          | ML90L2-4   | 110/1.85          |
| Y3          | YS90L2-2   | 380/2.20          | Q2          | ML90L2-2   | 110/2.20          |
|             |            |                   | Q4          | ML90L-2    | 110/2.20          |
|             |            |                   | Y1          | YL90L-2    | 110/2.20          |
|             |            |                   | Y2          | YL90L-2    | 220/2.20          |

安装方式  
Mounting Type

|   |               |
|---|---------------|
| H | 卧式 Horizontal |
| V | 立式 Vertical   |

特殊安装要求  
Special mounting demand

A-P

油箱容积  
Tank Capacity

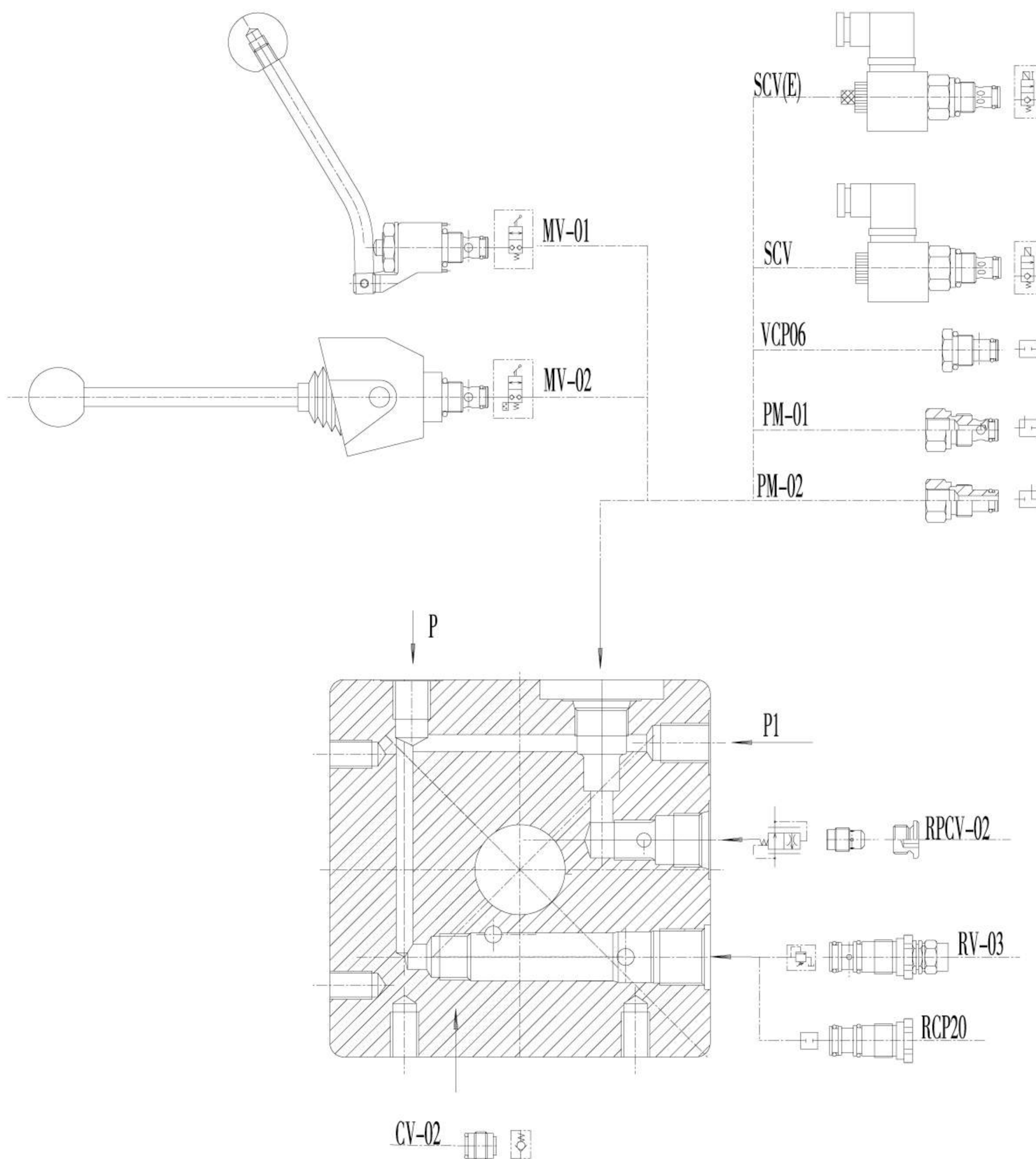
|   |        |
|---|--------|
| A | 1.7 L  |
| B | 2.8 L  |
| C | 4.0 L  |
| D | 5.0 L  |
| E | 6.0 L  |
| F | 8.0 L  |
| G | 10 L   |
| H | 12 L   |
| I | 14 L   |
| J | 3 gal. |
| K | 5 gal. |
| L | 15 L   |
| M | 20 L   |
| N | 30 L   |

\*Plastic tank add (P)

油口尺寸  
Oil Port

|   |          |
|---|----------|
| A | M14*1.5  |
| B | M16*1.5  |
| C | 1/4"BSPP |
| D | 3/8"BSPP |
| E | 3/8"NPT  |

### 五、部件选配图 Cartaridge Valves Option



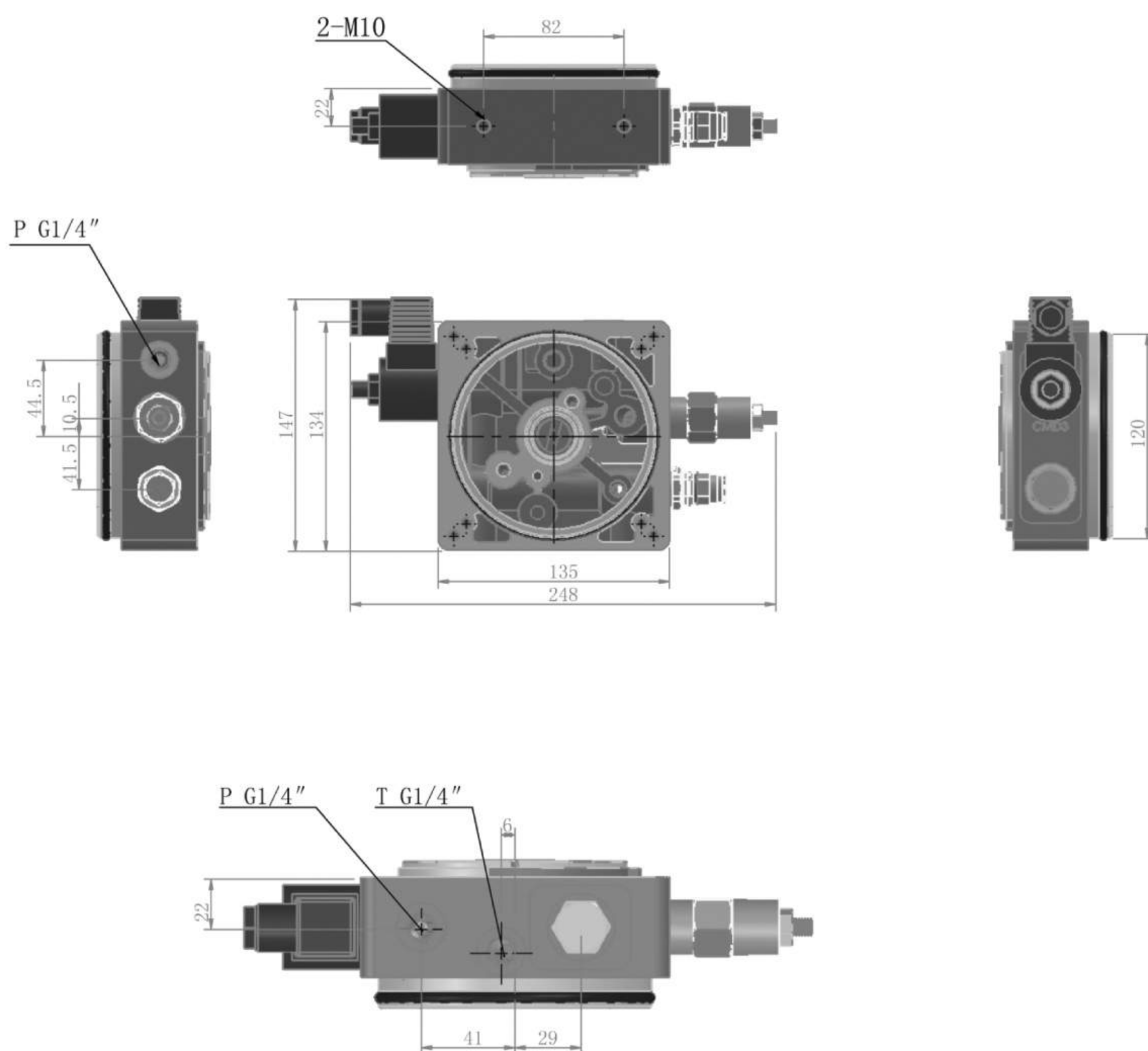
# CMD3 中心阀块 Center Manifold



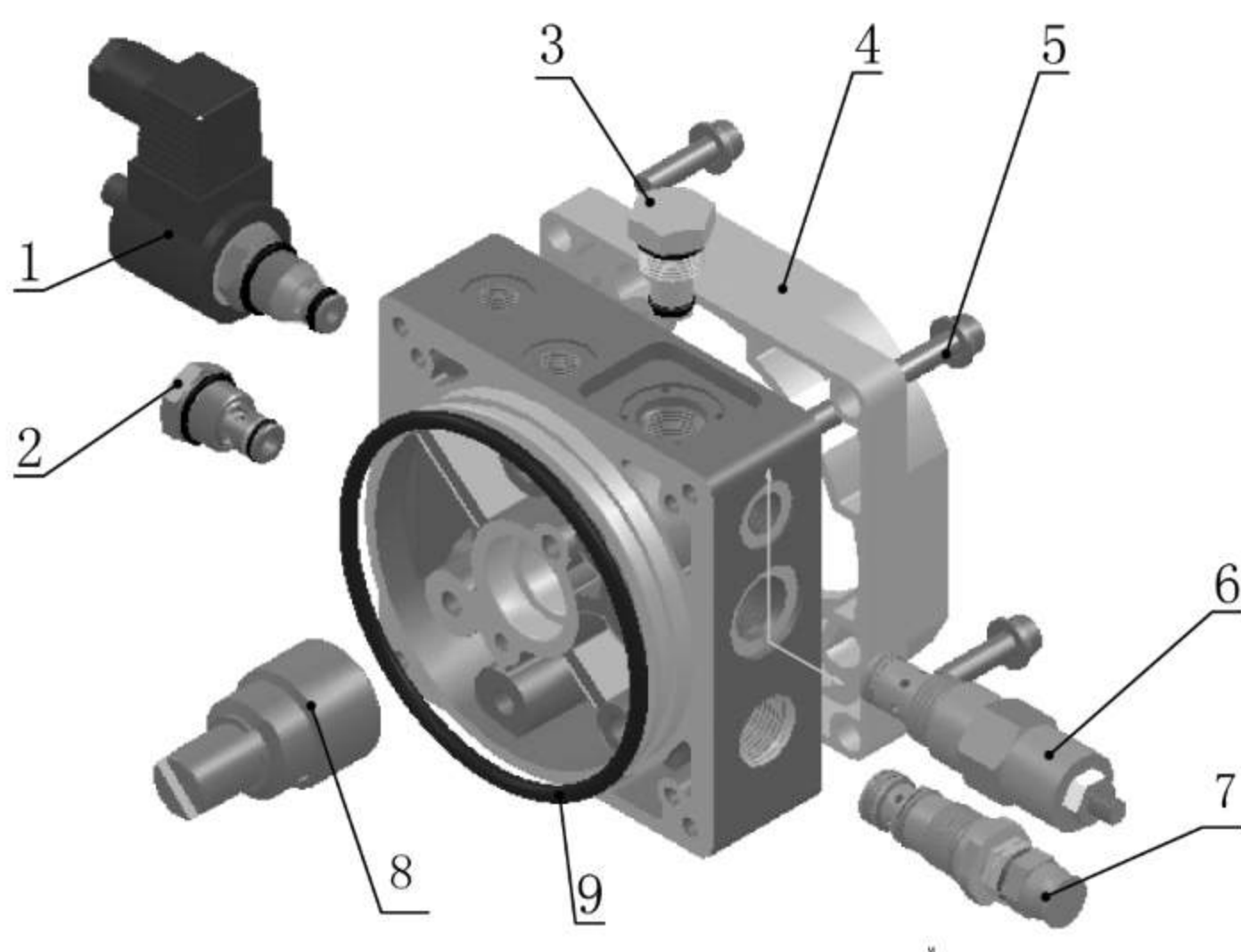
CMD3中心阀块，选用优质铝合金精密铸造而成，为实现规模化生产创造了条件。一般与DC12V、DC24V、AC380V、AC220V等交、直流电机组组合，与CBK型齿轮泵配合使用组装方便，性能优越，操作简单，适应性强。  
适用液压原理图：24、27

Pressure Casting Technology processing, the essential base for mass-production, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement and heat treatment. Convenient assembly, simply operation, stability performance, practical function.  
Commonly match with aluminum case AC motor of 380V, 220V, or DC Motor of 12V, 24V.  
Application available of the hydraulics schematic: 24、27

## 一、外形尺寸图 Outline Dimensions

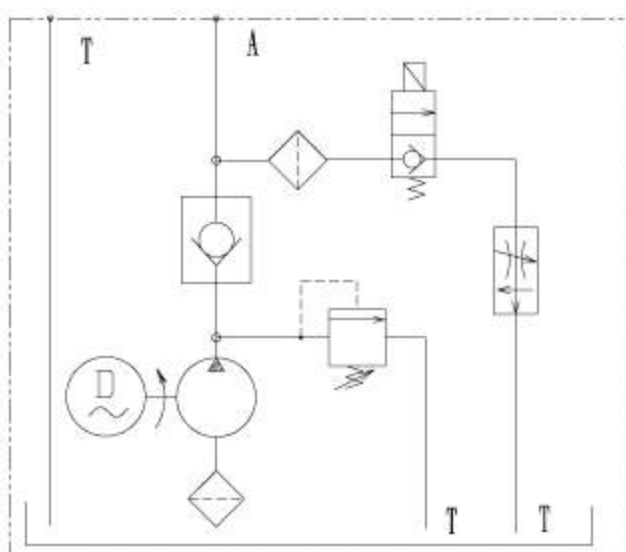


## 二、爆炸图 Exploded Drawing



| 序号<br>Item | 部件名称<br>Part name                              | 代码<br>Part code |
|------------|------------------------------------------------|-----------------|
| 1          | 电磁阀<br>Solenoid valve                          | SCV (E)         |
|            |                                                |                 |
| 2          | 单向阀<br>Check valve                             | CV-01           |
|            |                                                |                 |
| 3          | 压力螺塞<br>Pressure plug                          | VCP-06          |
|            |                                                |                 |
| 4          | 电机接盘<br>Adaptor flange                         | MCM90           |
|            |                                                |                 |
| 5          | 螺栓组件<br>Bolt assembly                          | M8X30           |
|            |                                                |                 |
| 6          | 可调压补阀<br>Adjustable Pressure Compensated valve | RPCV-04         |
|            |                                                |                 |
| 7          | 调压阀<br>Pressure valve                          | RV-03           |
|            |                                                |                 |
| 8          | 联轴器<br>Coupling                                | Acp 645         |
|            |                                                |                 |
| 9          | O型圈<br>O-ring                                  | Φ 112X4         |
|            |                                                |                 |

## 三、典型原理图 Hydraulic Schematic



## 四、使用说明 Operation Directions

### 1、二位三通附手动电磁阀SCV (E) 图示1号零件

- ① 应急按钮如果是红色的，操作时向内按往右旋为正常工作。向内按往左旋为松开放油、卸压。
- ② 应急按钮如果是黄色的，操作时直接右旋为旋紧保压。直接左旋为松开放油、卸压。

### 2、可调压补阀图示6号零件：RPCV-04调节流量时，松开锁紧螺母，

- ① 用4mm内六角扳手，右旋增加流量，下降速度增快；左旋减少流量，下降速度减慢。
- ② 流量调节合适后，请锁紧螺母。

### 3、调压阀RV-03图示7号零件：出厂时压力已调节好请不要随意调节。需要调节压力时，松开锁紧螺母。

- ① 用5mm内六角扳手，右旋增加压力。左旋减少压力。
- ② 压力调节合适后，请锁紧螺母。

### 1. Fitting part of Item 1: 2 Position-2 Way Solenoid Release Valve with emergency push button **SCV (E)**

① With red emergency push button: Push and turn right down: pressure holding and oil working Push and turn left: pressure released and oil returning to the tank..

② With yellow emergency push button: Directly turn right down: pressure holding and oil working. Directly turn left: pressure released and oil returning to the tank..

### 2. Fitting part of Item 6: Flow rate Adjustable Pressure Compensated Down-Speed Control Valve **RPCV-04**

For necessary adjustment by expert operation guiding:

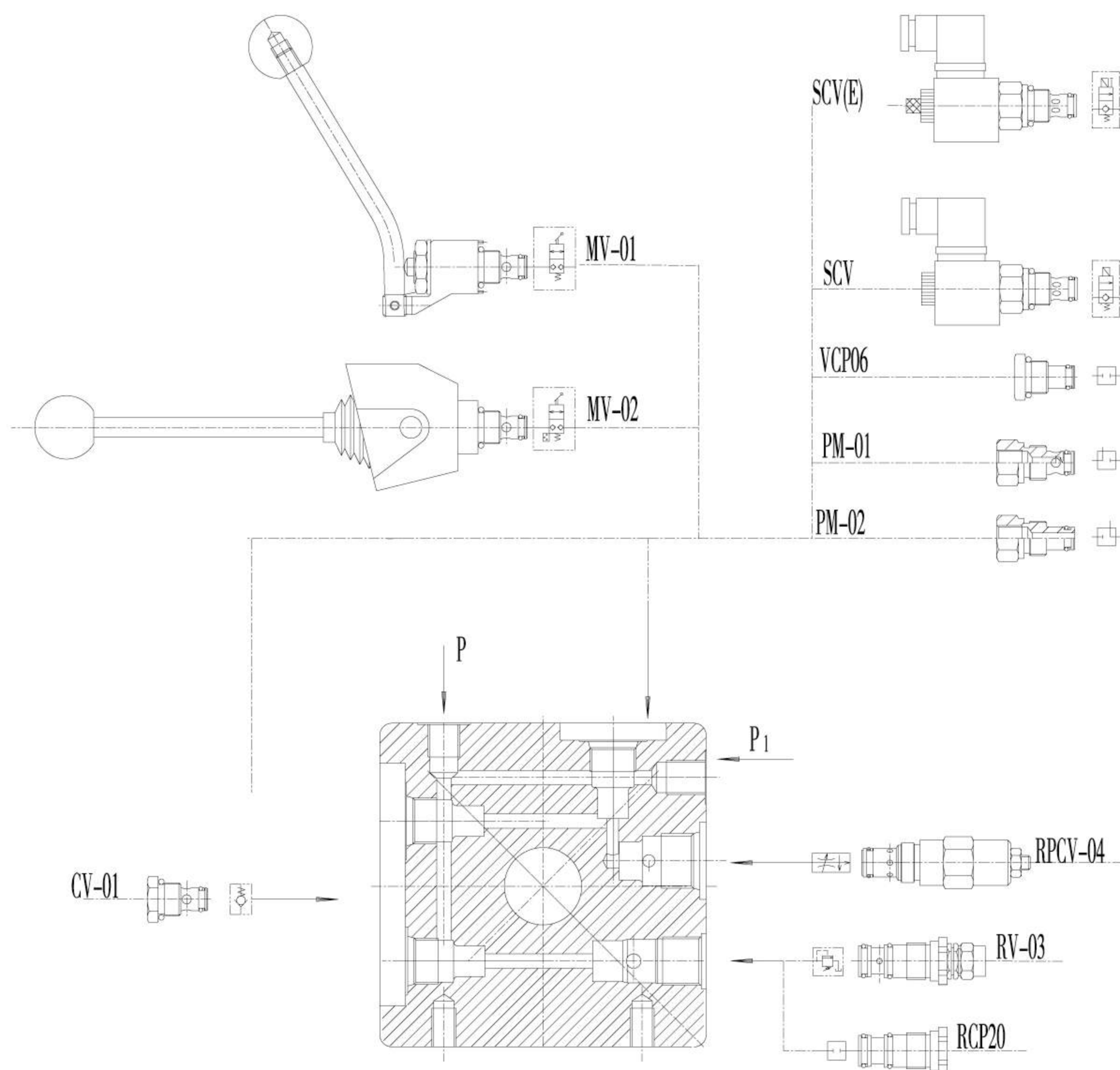
Loosen the tight nut--- with 4mm socket screw wrench, turn right for Flow Rate up and Down-Speed fast; turn left for Flow Rate down and Down-Speed slow--- tighten the nut after adjustment operation.

### 3. Fitting part of Item 7: Relief Valve **RV-03**

The pressure has been adjusted in regular data in delivery inspection, and user self- adjusting is forbidden for this valve. For necessary adjustment by expert operation guiding:

Loosen the tight nut--- with 5mm socket screw wrench, turn right for pressure up; turn left for pressure down---tighten the nut after adjustment operation.

### 五、部件选配图 Cartaridge Valves Option



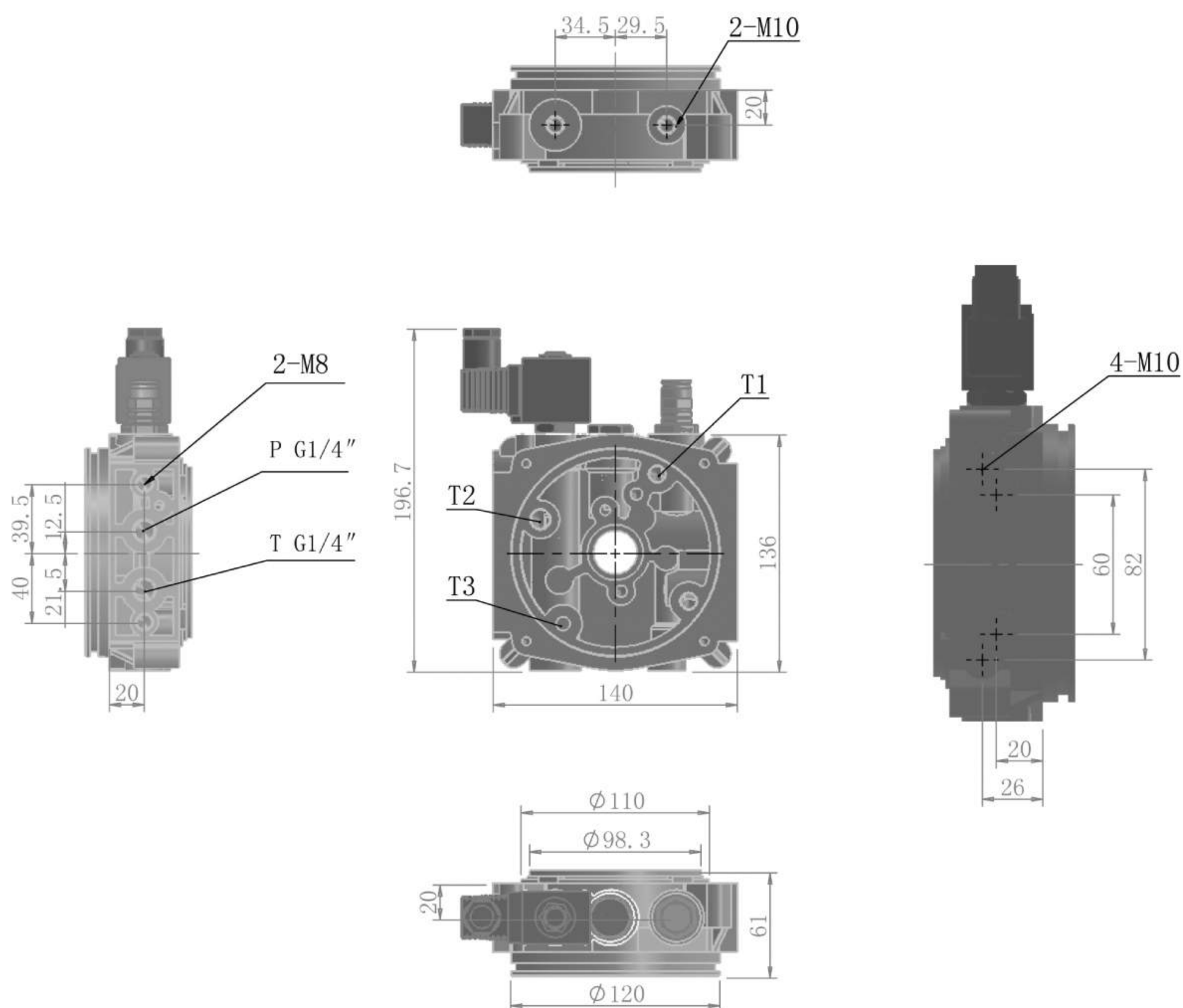
CME中心阀块，选用优质铝合金精密铸造而成，为实现规模化生产创造了条件。具有两个安装面，功能阀集中在一个侧面，油口面与CMC保持一致。组装方便、性能优越、操作简单、适应性强。

适用液压原理图：01、02、08、10、11、12、13、14、21、22、26、27

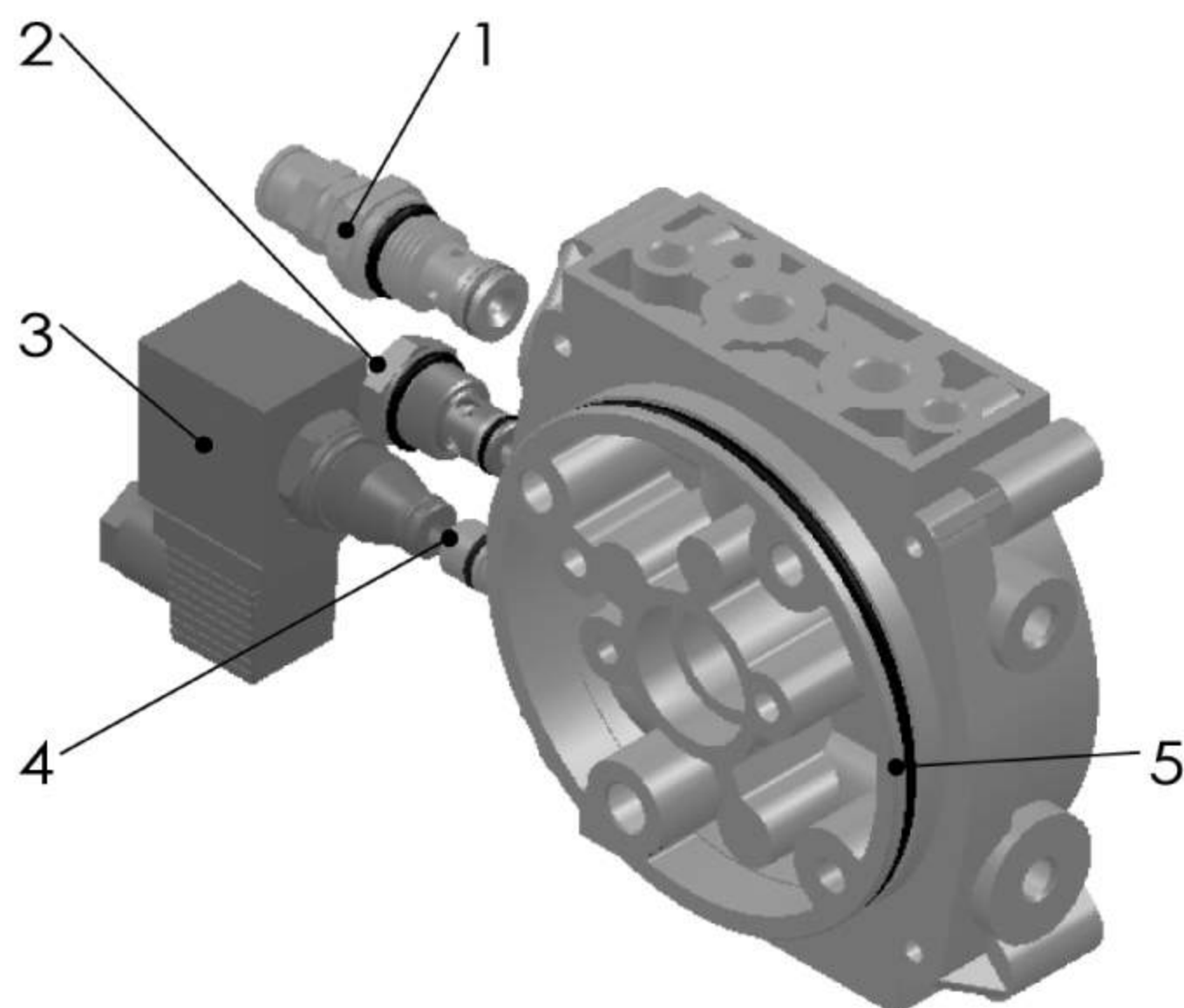
Pressure Casting Technology processing, the essential base for mass-production, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement and heat treatment. Especially design for the application of two mounting face, control valves fitted on one face and the pressure oil port position is as the same as the CMC manifold. Convenient assembly, simply operation, stability performance, practical function. Commonly match with aluminum case AC motor

Application available of the hydraulics schematic: 01、02、08、10、11、12、13、14、21、22、26、27

## 一、外形尺寸图 Outline Dimensions

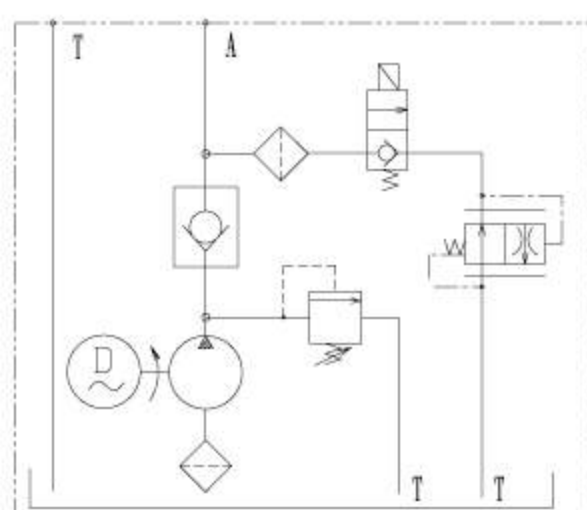


## 二、爆炸图 Exploded Drawing



| 序号<br>Item | 部件名称<br>Part name                      | 代码<br>Part code |
|------------|----------------------------------------|-----------------|
| 1          | 溢流阀<br>Relief valve                    | RV-02           |
|            |                                        |                 |
| 2          | 单向阀<br>check valve                     | CV-01           |
|            |                                        |                 |
| 3          | 电磁阀<br>Solenoid valve                  | SCV (E)         |
|            |                                        |                 |
| 4          | 压力补偿节流阀<br>pressure compensation valve | RPCV-01         |
|            |                                        |                 |
| 5          | O型圈<br>O-ring                          | Φ112X4          |
|            |                                        |                 |

## 三、典型原理图 Hydraulic Schematic



## 四、使用说明 Operation Directions

### 1、二位二通附手动、电磁阀SCV (E) 图示3号零件

- ① 应急按钮如果是红色的，向内按往右旋为保压正常工作。向内按往左旋为松开放油、卸压。
- ② 应急按钮如果是黄色的，操作时直接右旋为旋紧保压正常工作，卸压直接左旋为松开放油。

### 2、压力流量补偿阀RPCV-01图示4号零件

### 3、调压阀RV-02图示1号零件：出厂时压力已调节好请不要随意调节，需要调节压力时，松开锁紧螺母。

- ① 用螺丝刀，右旋增加压力，左旋减少压力
- ② 压力调节合适后，请锁紧螺母。

### 1. Fitting part of Item 3: 2 Position-2 Way Solenoid Release Valve with emergency push button **SCV (E)**

- ① With red emergency push button:  
Push and turn right down: pressure holding and oil working  
Push and turn left: pressure released and oil returning to the tank..
- ② With yellow emergency push button:  
Directly turn right down: pressure holding and oil working.  
Directly turn left: pressure released and oil returning to the tank..

### 2. Fitting part of Item 4: Pressure Compensated Down-Speed Control Valve **RPCV-01**

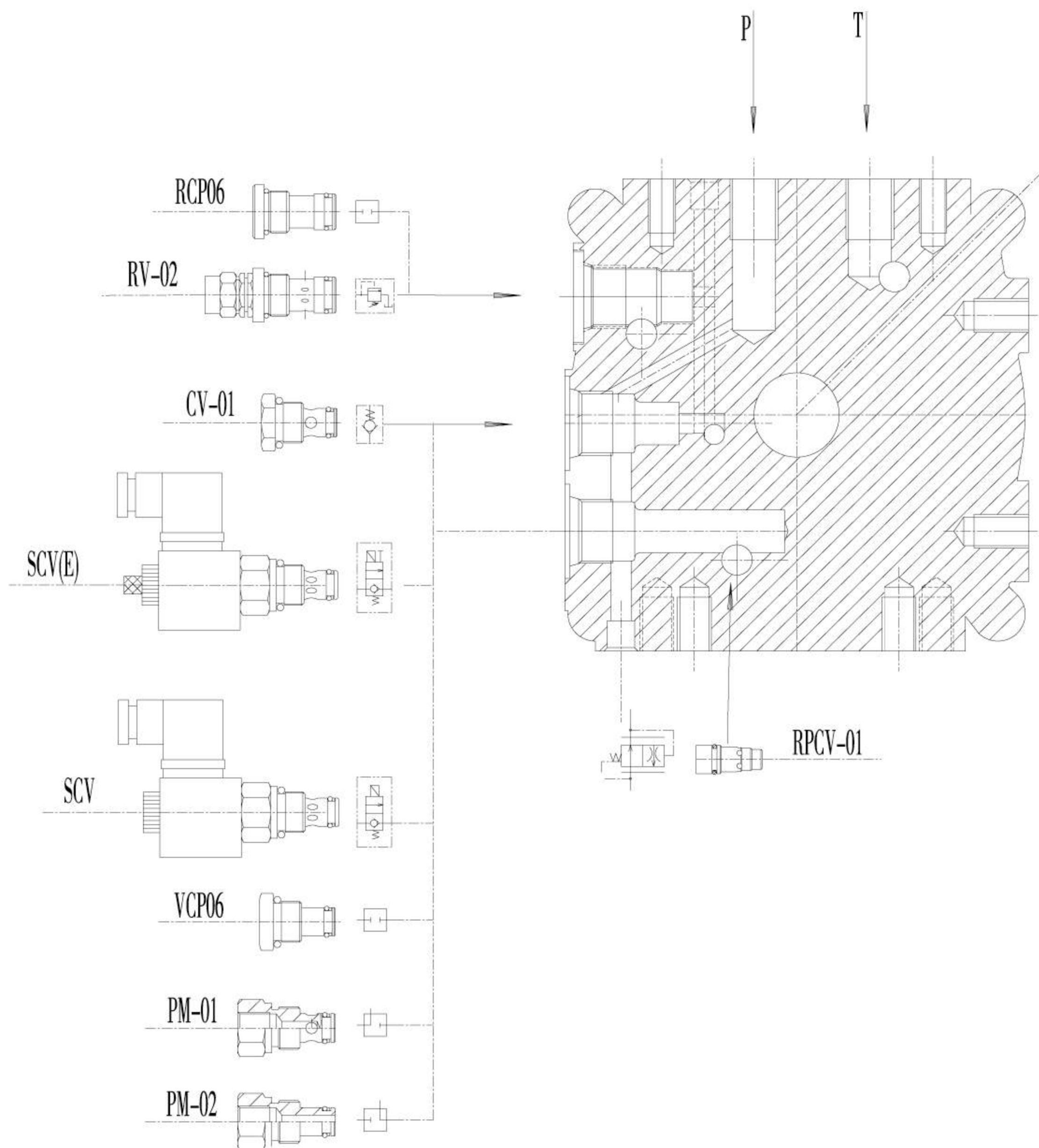
Optional type with different flow rate

### 3. Fitting part of Item 1: Relief Valve **RV-02**

The pressure has been adjusted in regular data in delivery inspection, and user self- adjusting is forbidden for this valve. For necessary adjustment by expert operation guiding:

Loosen the tight nut— with screw wrench, turn right for pressure up; turn left for pressure down—tighten the nut after adjustment operation.

五、部件选配图 Cartaridge Valves Option



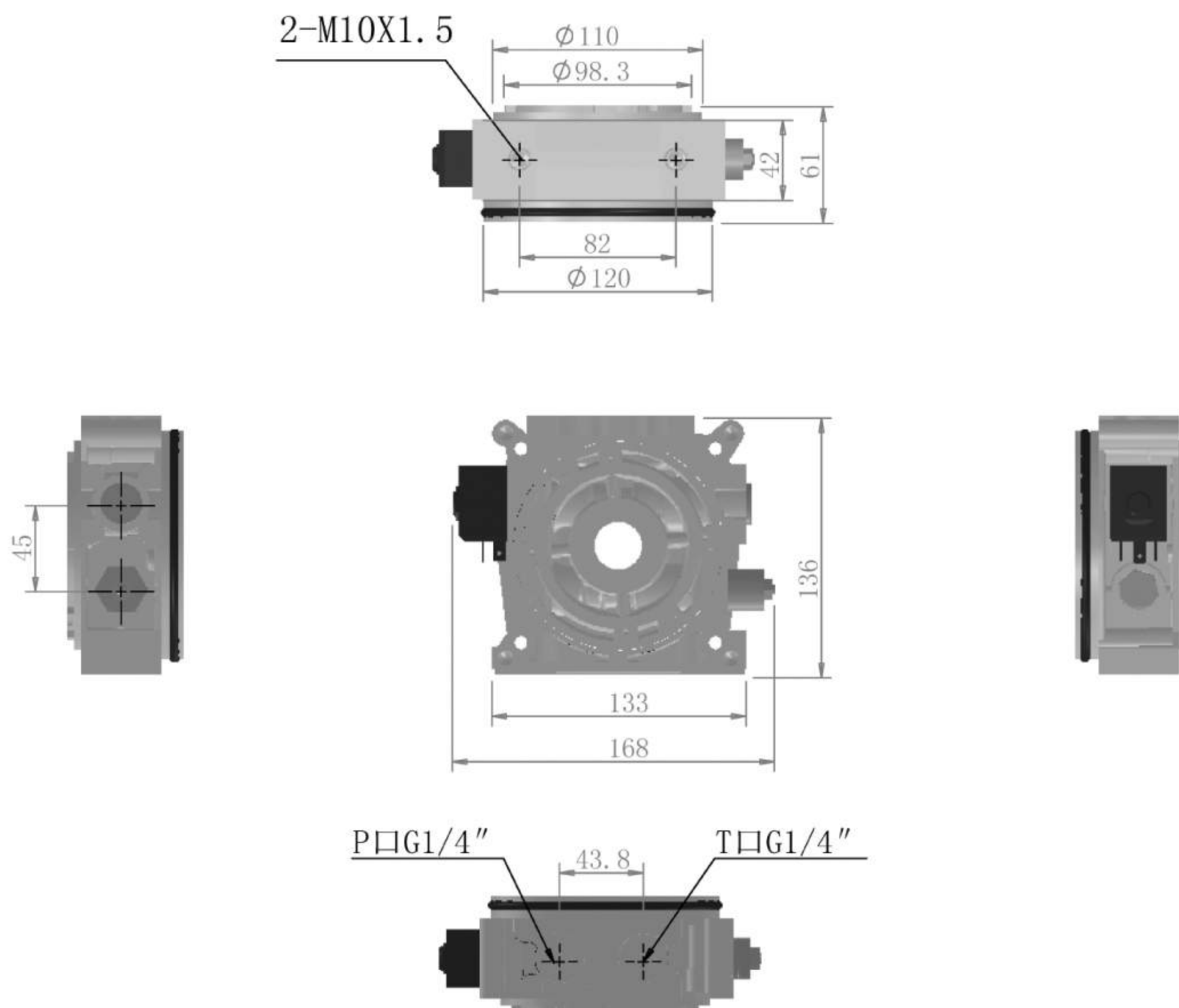
CMF中心阀块，选用优质铝合金精密铸造而成，为实现规模化生产创造了条件。广泛应用于电动堆高机、剪式升降机等领域，组装方便，性能优越，操作简单，适应性强。

适用液压原理图：01、02、21、26、27

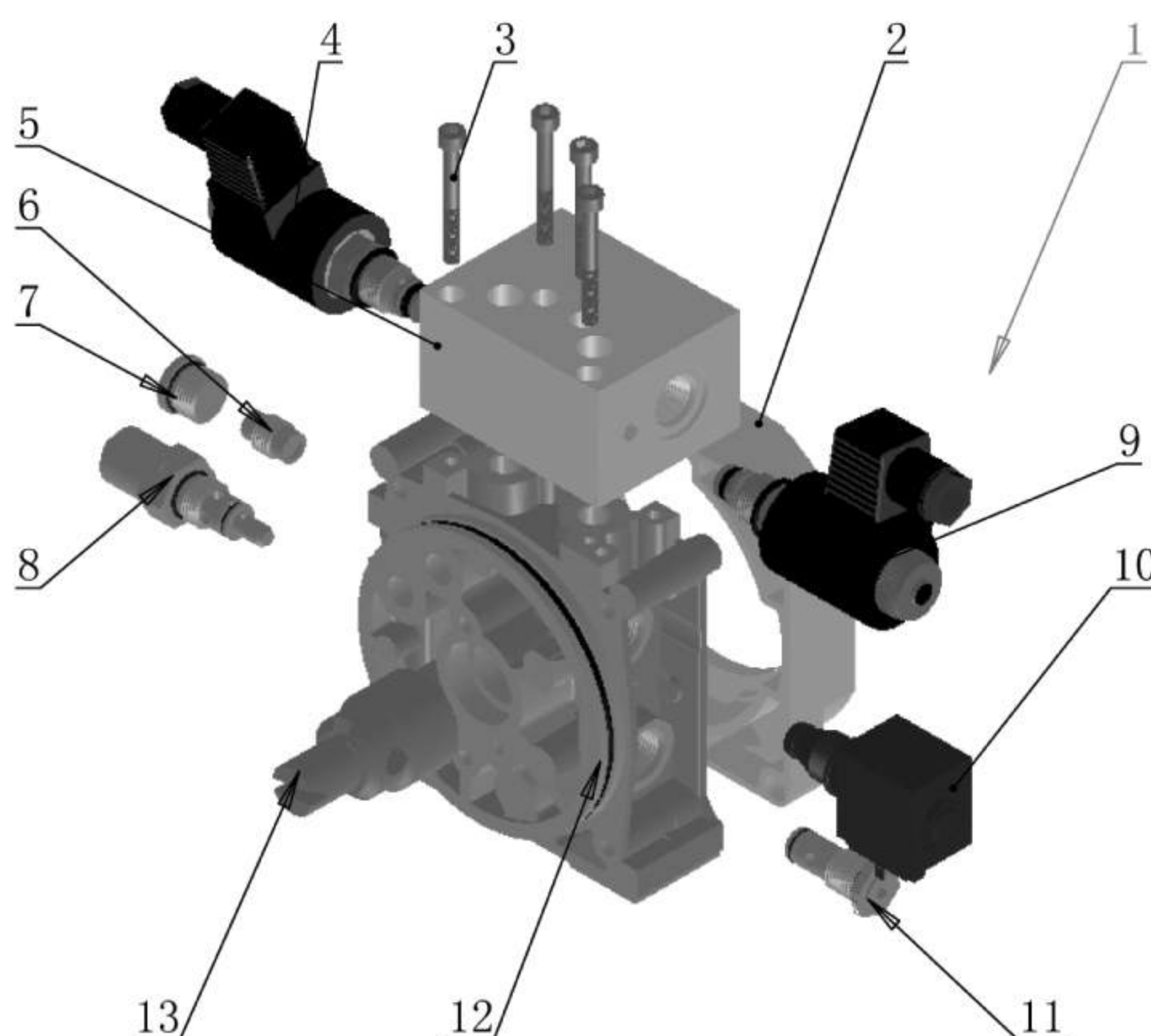
Pressure Casting Technology processing, the essential base for mass-production, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement and heat treatment. Widely applied on Electric stacker and Car-lift. Convenient assembly, simply operation, stability performance, practical function.

Application available of the hydraulics schematic: 01、02、21、26、27

## 一、外形尺寸图 Outline Dimensions

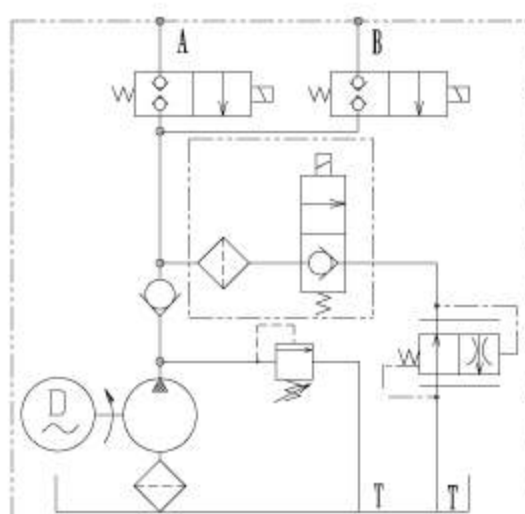


## 二、爆炸图 Exploded Drawing



| 序号<br>Item | 部件名称<br>Part name                      | 代码<br>Part code |
|------------|----------------------------------------|-----------------|
| 1          | 内六角螺栓组件<br>Hexagon bolt components     | M8x30           |
|            |                                        |                 |
| 2          | 电机接盘<br>Motor access plate             | MCM-φ90         |
|            |                                        |                 |
| 3          | 内六角螺栓<br>Hexagon bolt                  | M6X50           |
|            |                                        |                 |
| 4          | 双向止回电磁阀<br>Double check release valve  | SDV (E)         |
|            |                                        |                 |
| 5          | 叠加块<br>Block stacking                  | MB14-CMF        |
|            |                                        |                 |
| 6          | 压力流量补偿阀<br>pressure compensation valve | RPCV-02         |
|            |                                        |                 |
| 7          | 堵塞<br>Presure Plug                     | VP-06           |
|            |                                        |                 |
| 8          | 溢流阀<br>Relief valve                    | RV-04           |
|            |                                        |                 |
| 9          | 双向止电磁阀<br>Double check release valve   | SDV (E)         |
|            |                                        |                 |
| 10         | 电磁阀<br>Solenoid valve                  | SCV (E)         |
|            |                                        |                 |
| 11         | 单向阀<br>One-way valve                   | CV-04           |
|            |                                        |                 |
| 12         | O型圈<br>O-ring                          | φ112x4          |
|            |                                        |                 |
| 13         | 联轴器<br>Coupling                        | ACP645          |
|            |                                        |                 |

## 三、典型原理图 Hydraulic Schematic



## 四、使用说明 Operation Directions

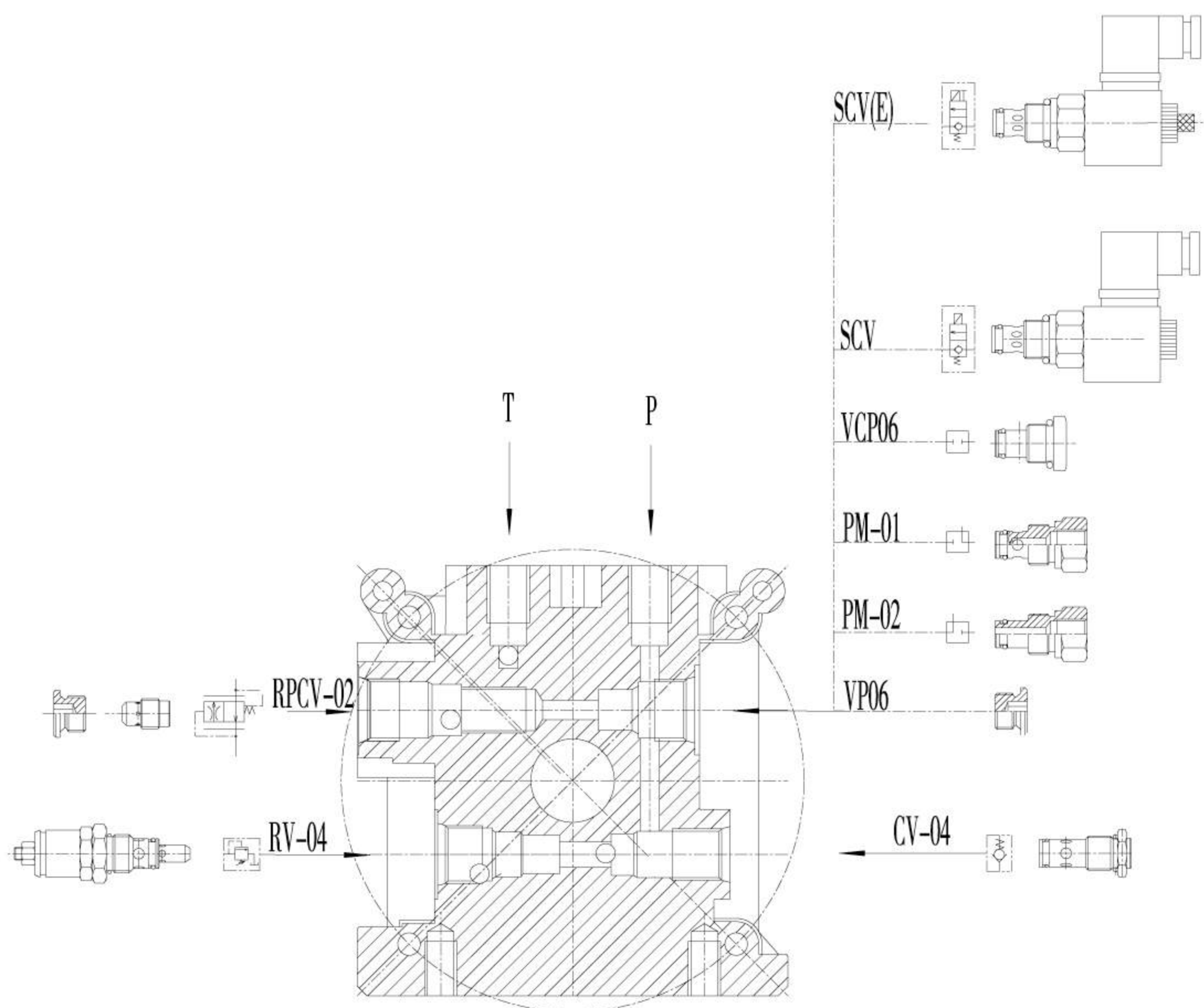
- 二位三通附手动、电磁阀SCV(E)图示10号零件
  - ① 应急按钮如果是红色的，操作时向内按往右旋为保压正常工作。向内按往左旋为松开放油、卸压。
  - ② 应急按钮如果是黄色的，操作时直接右旋为旋紧保压正常工作。操作时直接左旋为松开放油、卸压。
- 二位三通附手动双向止回阀SDV(E)图4、9号零件，正常情况下保压；用5mm内六角扳手往内按为放油卸压。
- 压力流量补偿阀图示6号零件
- 调压阀RV-04图示8号零件：出厂时压力已调节好请不要随意调节。需要调节压力时，松开锁紧螺母。
  - ① 用3mm内六角扳手，右旋增加压力。左旋减少压力。
  - ② 压力调节合适后，请锁紧螺母。
- MB-14叠加块属选用件，配叠加阀使用。
  - 1. Fitting part of Item 10: 2 Position-2 Way Solenoid Release Valve with emergency push button SCV (E)**
    - ① With red emergency push button: Push and turn right down: pressure holding and oil working Push and turn left: pressure released and oil returning to the tank..
    - ② With yellow emergency push button: Directly turn right down: pressure holding and oil working. Directly turn left: pressure released and oil returning to the tank..
  - 2. Fitting part of Item 4 and Item 9: 2 Position-2 Way Double Check Solenoid Release Valve with emergency push button SDV (E)**

Emergency push button operation guiding: with 5mm socket screw wrench, push in to make the pressure released and the oil return to oil tank.
  - 3. Fitting part of Item 6: Pressure Compensated Down-Speed Control Valve RPCV-01** Optional type with different flow rate
  - 4. Fitting part of Item 8: Relief Valve RV-04**

The pressure has been adjusted in regular data in delivery inspection, and user self-adjusting is forbidden for this valve. For necessary adjustment by expert operation guiding:

Loosen the tight nut—— with 3mm socket screw wrench, turn right for pressure up; turn left for pressure down——tighten the nut after adjustment operation.
  - 5. Fitting part of Item 5: operational match part for the fitting of modular valve (Cetop valve) MB14-CMF**

五、部件选配图 Cartaridge Valves Option



适用液压原理图：02、06、07、08、10、12、13、14、21、22、23、25、26

Pressure Casting Technology processing, the essential base for mass-production, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement and heat treatment. Especially designed for Mini power Unit fitting with CBU type Gear Pump. Application available for the motor voltage of power unit: DC12V、DC24V、DC48V、AC380V、AC220V、AC400V  
Application available of the hydraulics schematic: 02、06、07、08、10、12、13、14、21、22、23、25、26

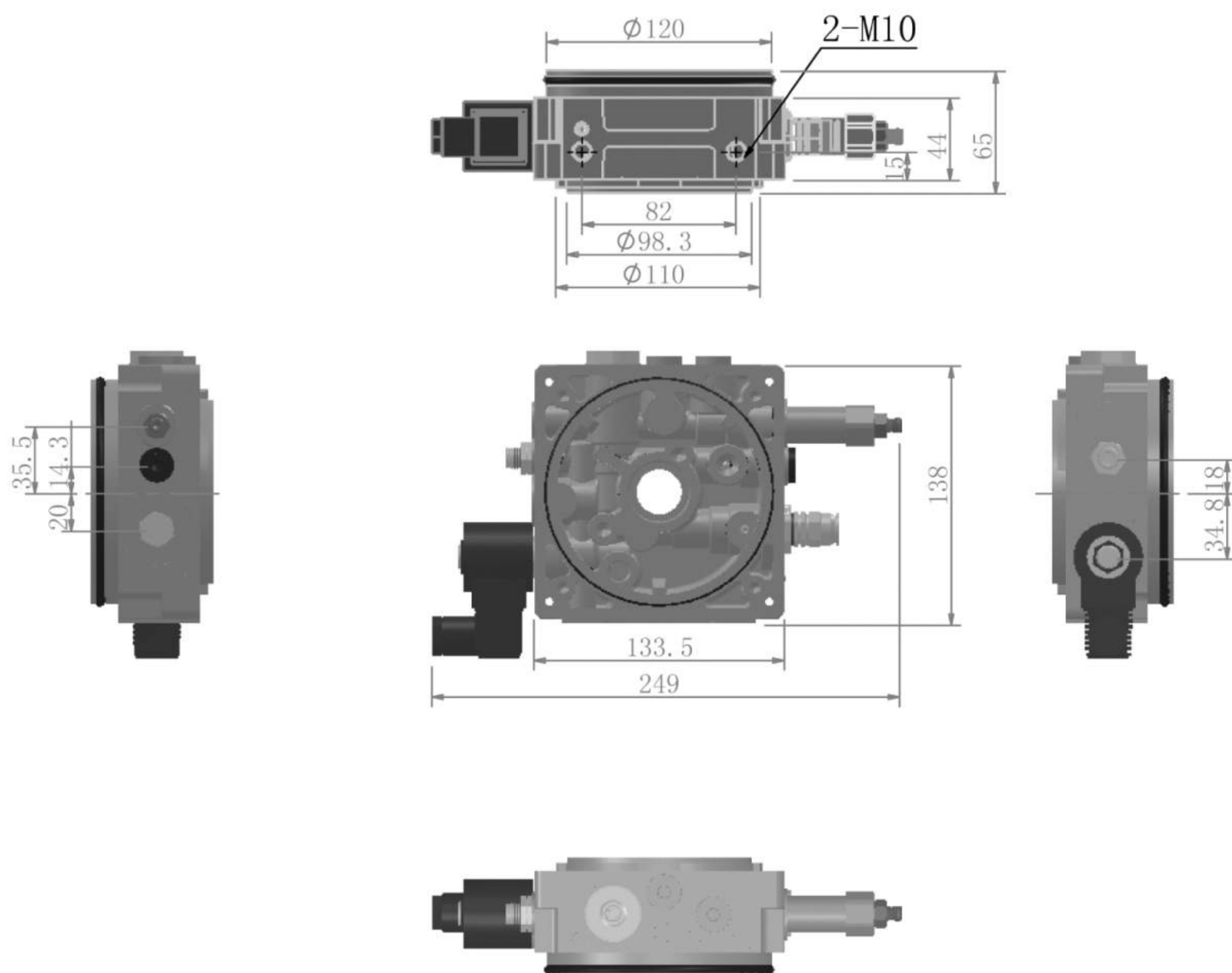
Technical drawing of the GMA 1000 hydraulic pump, showing five views and dimensions in millimeters (mm):

- Top View:** Shows the pump's top profile. Dimensions include a width of 177.8 mm and a distance of 40 mm between the two M10 mounting holes.
- Front View:** Shows the pump's front profile. Dimensions include a total width of 106 mm and a height of 106 mm.
- Side View (Left):** Shows the pump's side profile. Dimensions include a total height of 94 mm (indicated as  $\phi 94$ ), a mounting flange width of 65 mm, a flange thickness of 50 mm, a shaft diameter of 37.5 mm, and a base width of 52.3 mm. The oil port is labeled "油口A".
- Rear View:** Shows the pump's rear profile. Dimensions include a total height of 154 mm. The oil port is labeled "油口B".
- Bottom View:** Shows the pump's bottom profile. Dimensions include a width of 65 mm.

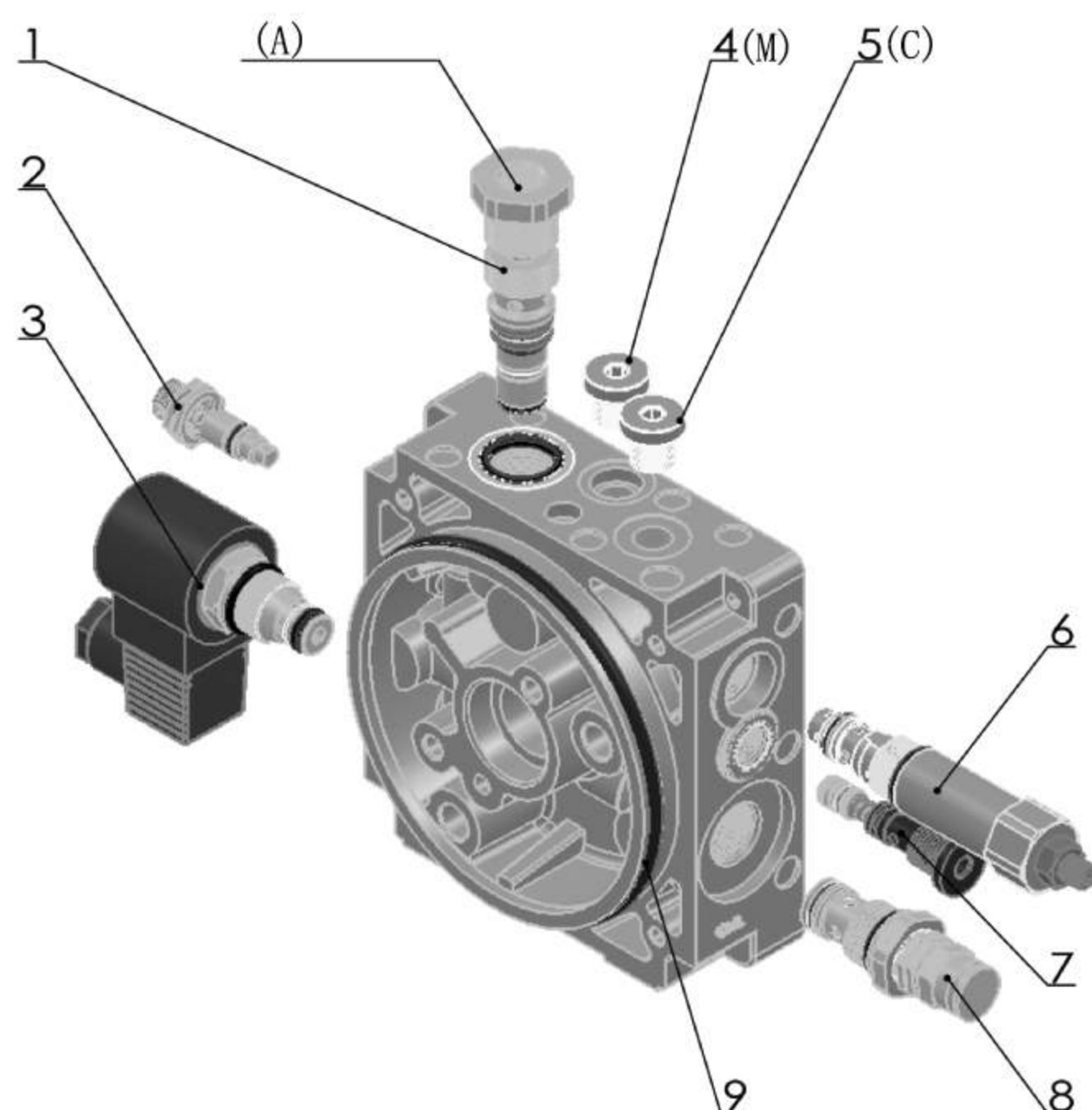
CML中心阀块，选用优质铝合金精密铸造而成，为实现规模化生产创造了条件。一般与AC380V、AC220V等交流电机组组合，专业性强，组装方便，性能优越，专业性强。  
适用液压原理图：19

Pressure Casting Technology processing, the essential base for mass-production, adoption of high quality characteristic aluminum alloy material, advanced technology of the alloy refinement and heat treatment. Convenient assembly, simply operation, stability performance, practical function.  
Commonly match with aluminum case AC motor of 380V or 220V  
Application available of the hydraulics schematic: 19

## 一、外形尺寸图 Outline Dimensions

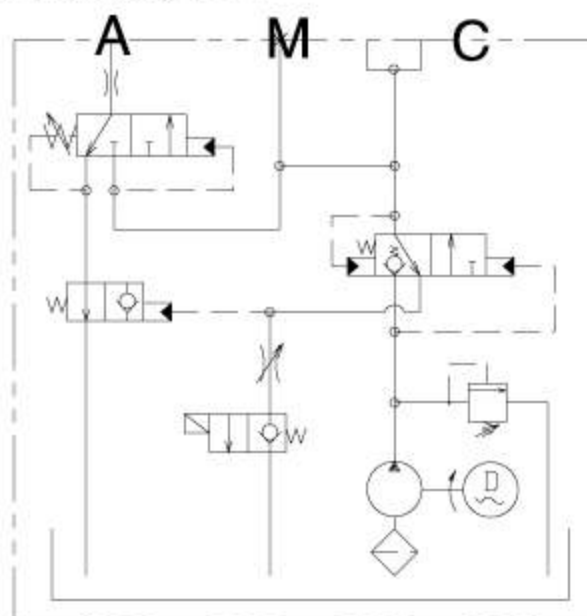


### 二、爆炸图 Exploded Drawing

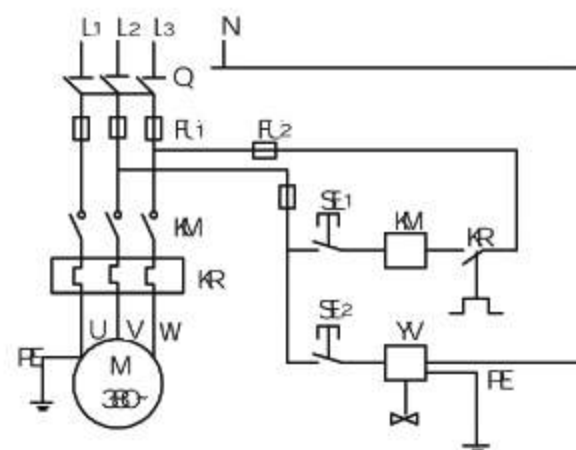
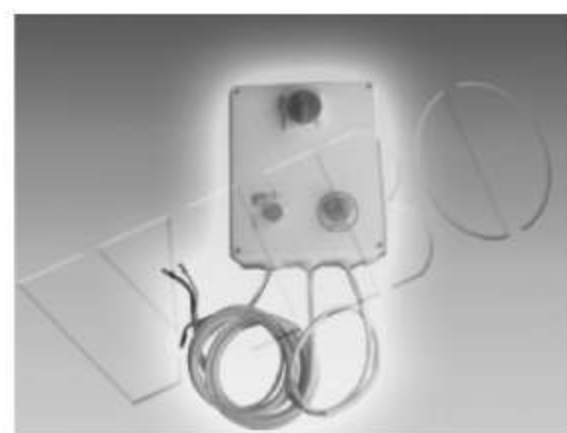


| 序号<br>Item | 部件名称<br>Part name                     | 代码<br>Part code |
|------------|---------------------------------------|-----------------|
| 1          | 梭阀<br>Shuttle valve                   | STV             |
|            |                                       |                 |
| 2          | 节流阀<br>flow control valve             | FCV-02          |
|            |                                       |                 |
| 3          | 电磁阀<br>Solenoid valve                 | SCV             |
|            |                                       |                 |
| 4          | 螺塞G1/4"<br>Pressure plug              | VP-02           |
|            |                                       |                 |
| 5          | 螺塞G1/4"<br>Pressure plug              | VP-02           |
|            |                                       |                 |
| 6          | 顺序阀<br>Sequence Valve                 | SQV             |
|            |                                       |                 |
| 7          | 液控单向阀<br>Pilot controlled check valve | PCCV            |
|            |                                       |                 |
| 8          | Relief valve<br>溢流阀                   | RV-02           |
|            |                                       |                 |
| 9          | 0型圈<br>O-ring                         | φ 112x4         |
|            |                                       |                 |

### 三、典型原理图 Hydraulic Schematic



### 四、电路图 Wiring Diagram



### 五、使用说明 Operation Directions

此类动力单元专门设计应用于固定式及移动式码头桥架,在系列液压阀控制下,主、副油缸支持登车桥主板及靠板呈顺序化动作,在平台与装载车之间形成一平滑稳定的斜桥以满足整车上下装卸货物的需要。

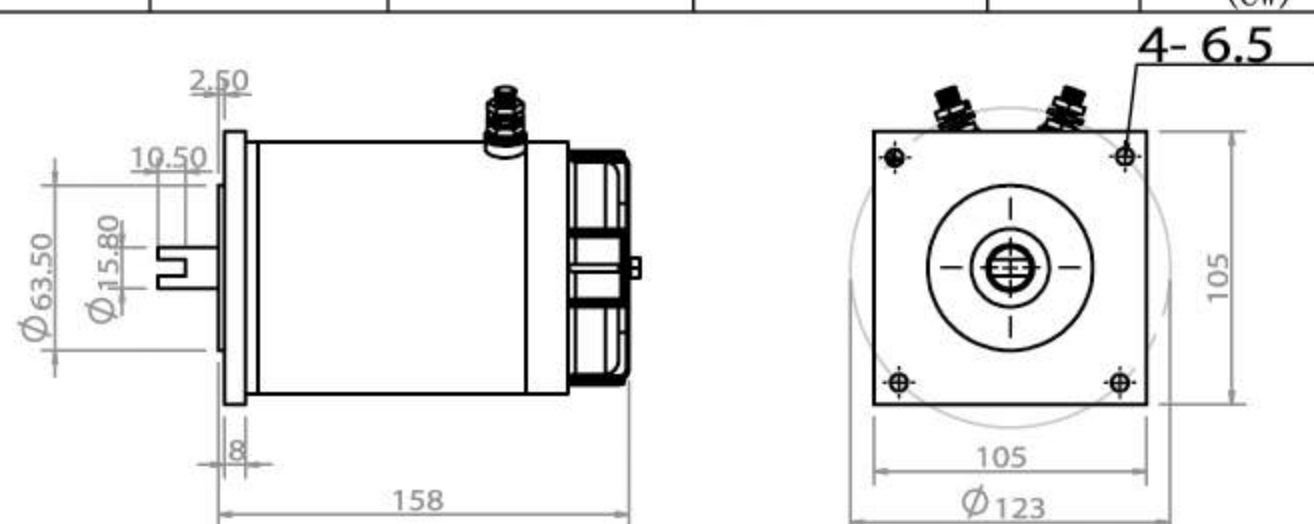
The unit is especially designed for Stationary or Mobile Dock/Leveler, Under the controlling of sequential hydraulic valves, the master cylinder and slave cylinder operating the ramp to tilt up and down; the lip falling automatically, So as to form a smooth transition plate between the Dock and the Carrier.

# 直流电机

DC Motor

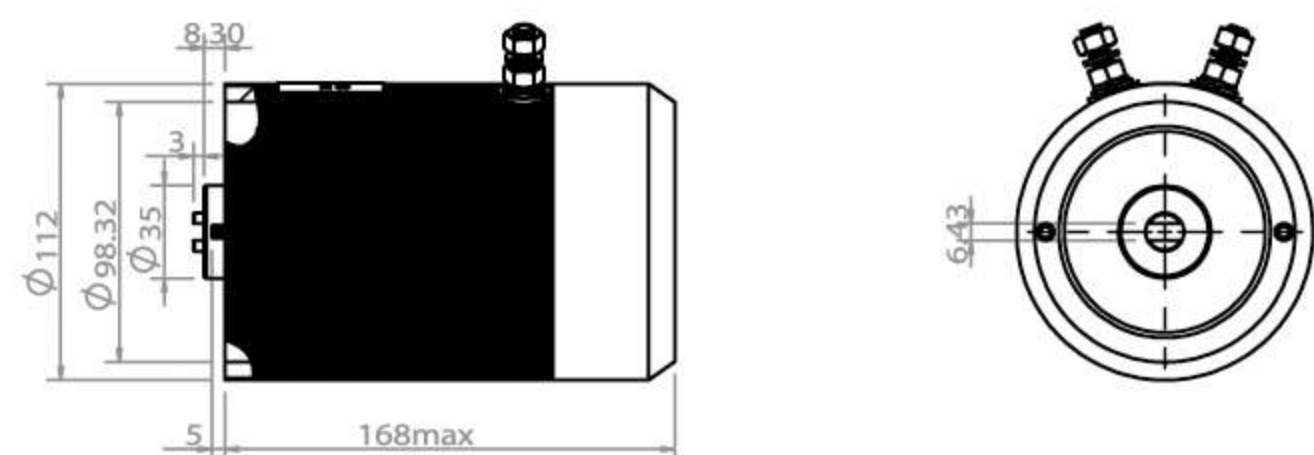


| 序号<br>item | 订货代码<br>order code | 额定电压<br>rated voltage | 额定功率<br>nominal power | 额定转速<br>rotation speed | 力矩<br>torque | 转向<br>rotation<br>direction | 工作制<br>operation<br>mode |
|------------|--------------------|-----------------------|-----------------------|------------------------|--------------|-----------------------------|--------------------------|
| A1         | MD12080            | 12V                   | 0.8KW                 | 2350rpm                | 3 N. M       | 顺时针<br>(CW)                 | S3=10%                   |
| A2         | MD24080            | 24V                   | 0.8KW                 | 2350rpm                | 3 N. M       | 顺时针<br>(CW)                 | S3=10%                   |
| A3         | MD48080            | 48V                   | 0.8KW                 | 2350rpm                | 3 N. M       | 顺时针<br>(CW)                 | S3=10%                   |



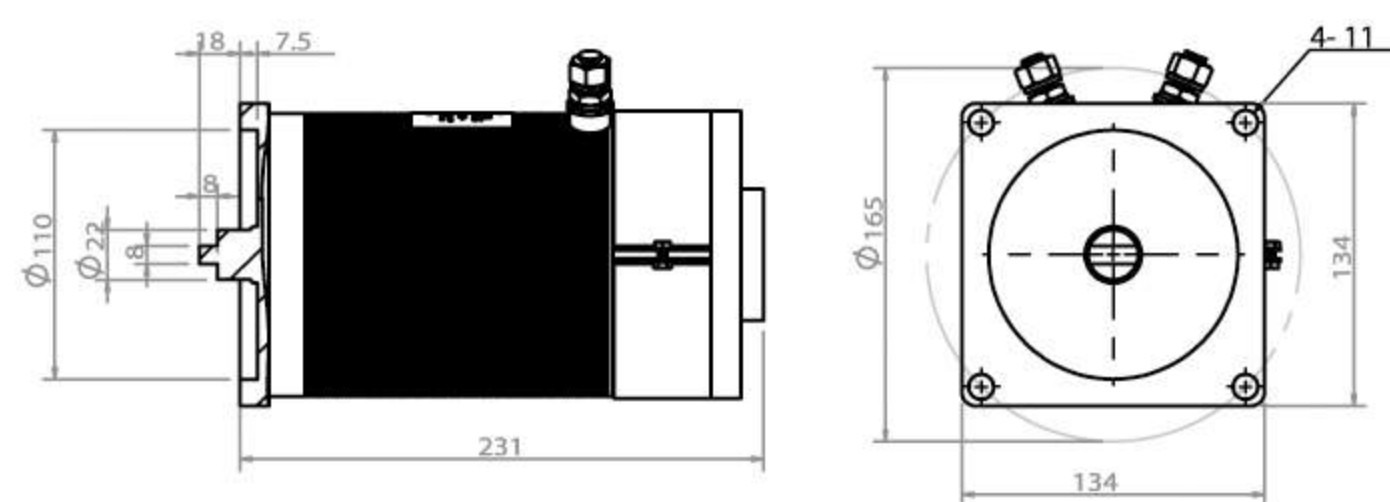
Ø 3.0"DC motor

|    |         |     |       |         |       |             |        |
|----|---------|-----|-------|---------|-------|-------------|--------|
| C1 | MD12160 | 12V | 1.6KW | 2950rpm | 6N. M | 顺时针<br>(CW) | S3=10% |
| C2 | MD24220 | 24V | 2.2KW | 3100rpm | 6N. M | 顺时针<br>(CW) | S3=10% |



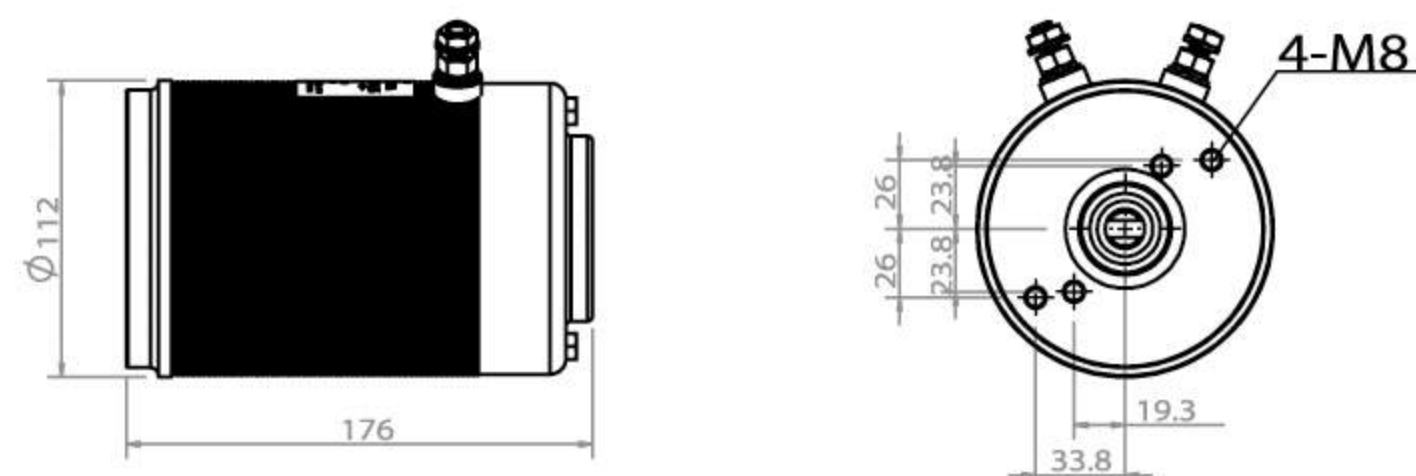
Ø 4.5"DC motor

|    |         |     |       |         |       |             |        |
|----|---------|-----|-------|---------|-------|-------------|--------|
| D1 | MD12260 | 12V | 2.6KW | 2300rpm | 9N. M | 顺时针<br>(CW) | S3=10% |
| D2 | MD24220 | 24V | 3.0KW | 2300rpm | 9N. M | 顺时针<br>(CW) | S3=10% |



Ø 5.0"DC motor

|    |         |     |     |         |       |             |       |
|----|---------|-----|-----|---------|-------|-------------|-------|
| T1 | MD12200 | 12V | 2KW | 2950rpm | 6N. M | 顺时针<br>(CW) | S3=7% |
| T2 | MD24200 | 24V | 2KW | 3100rpm | 6N. M | 顺时针<br>(CW) | S3=7% |



Ø 4.5"DC motor

Tel:0086-517-83719898 83719988  
Fax:0086-517-83719555

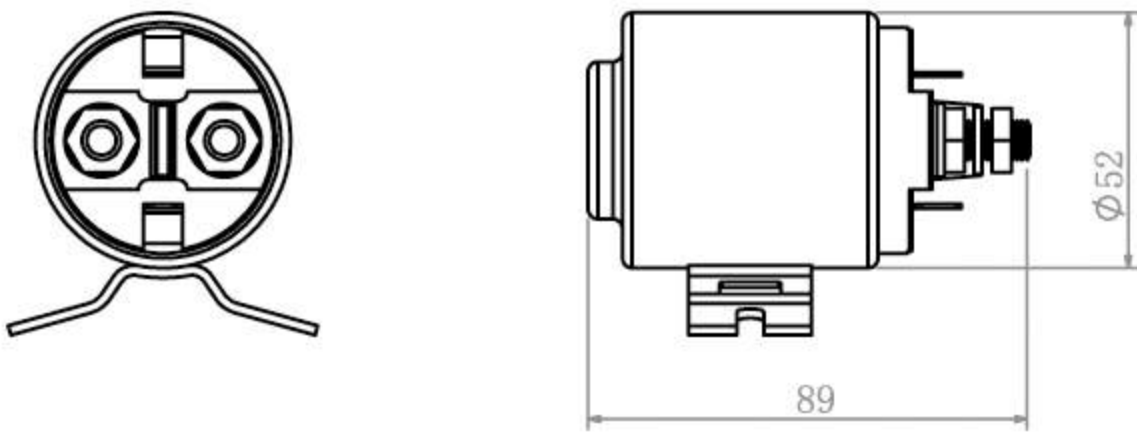
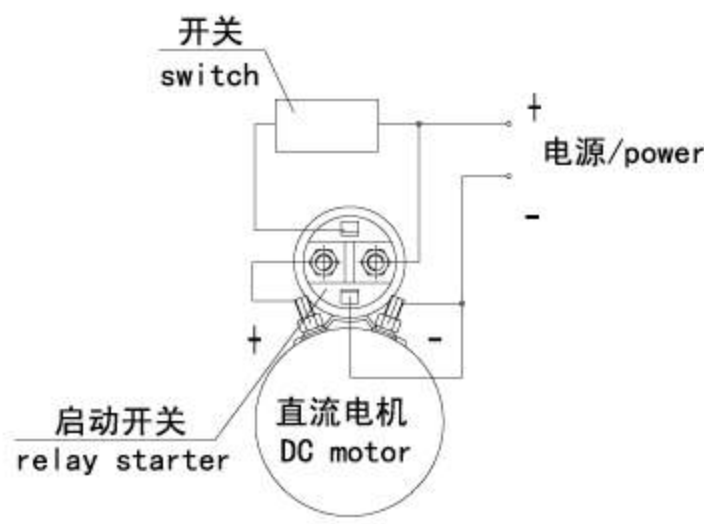
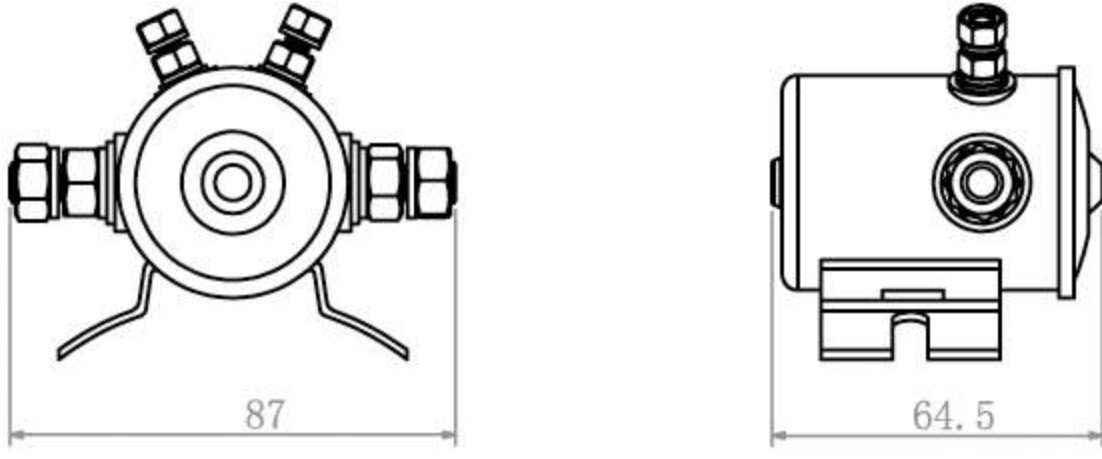
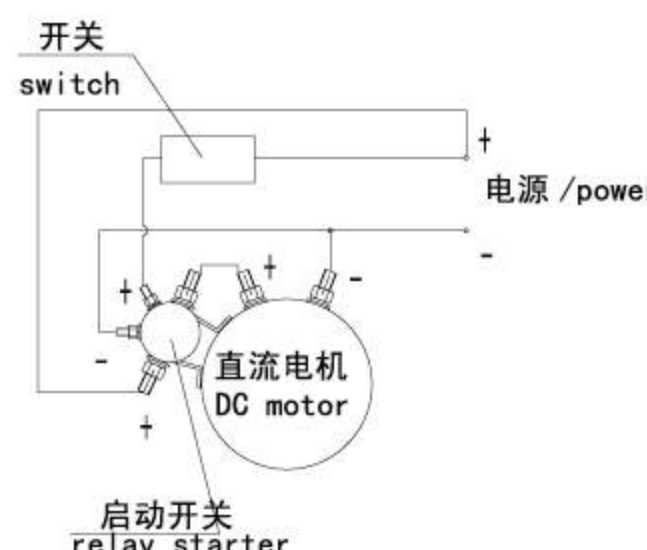
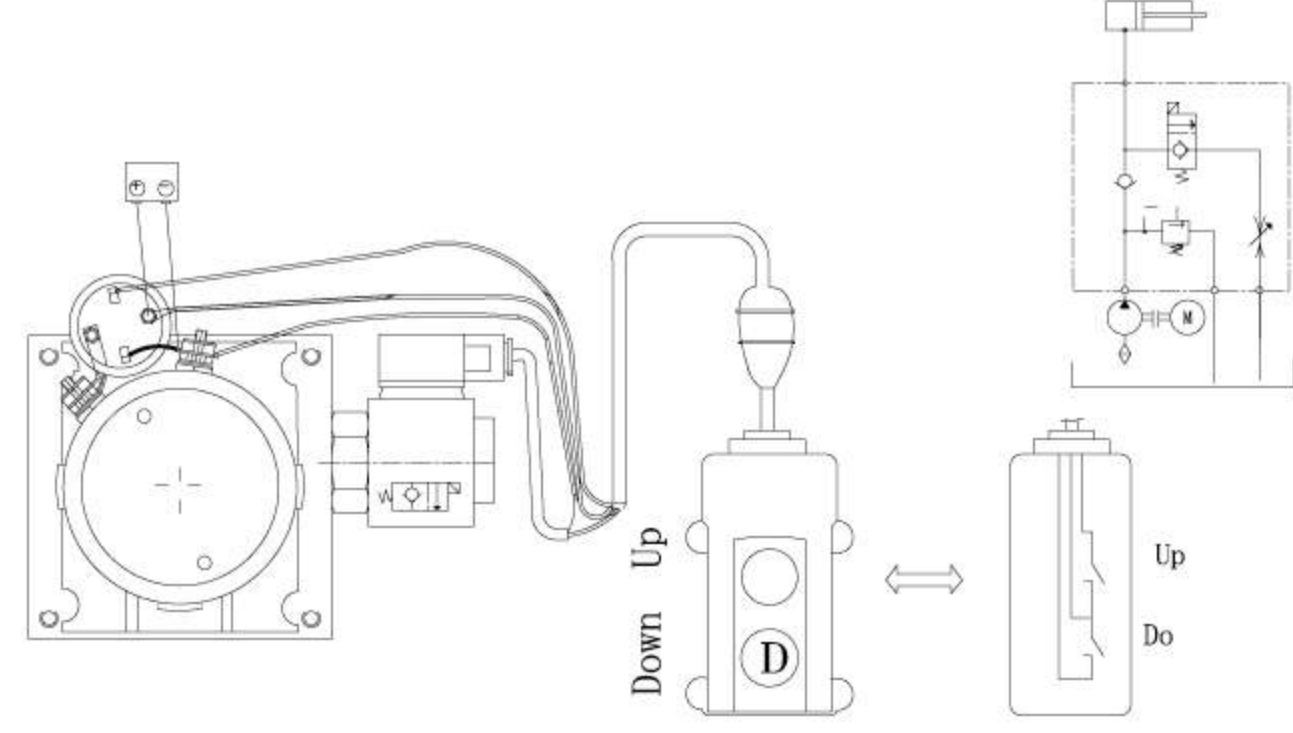
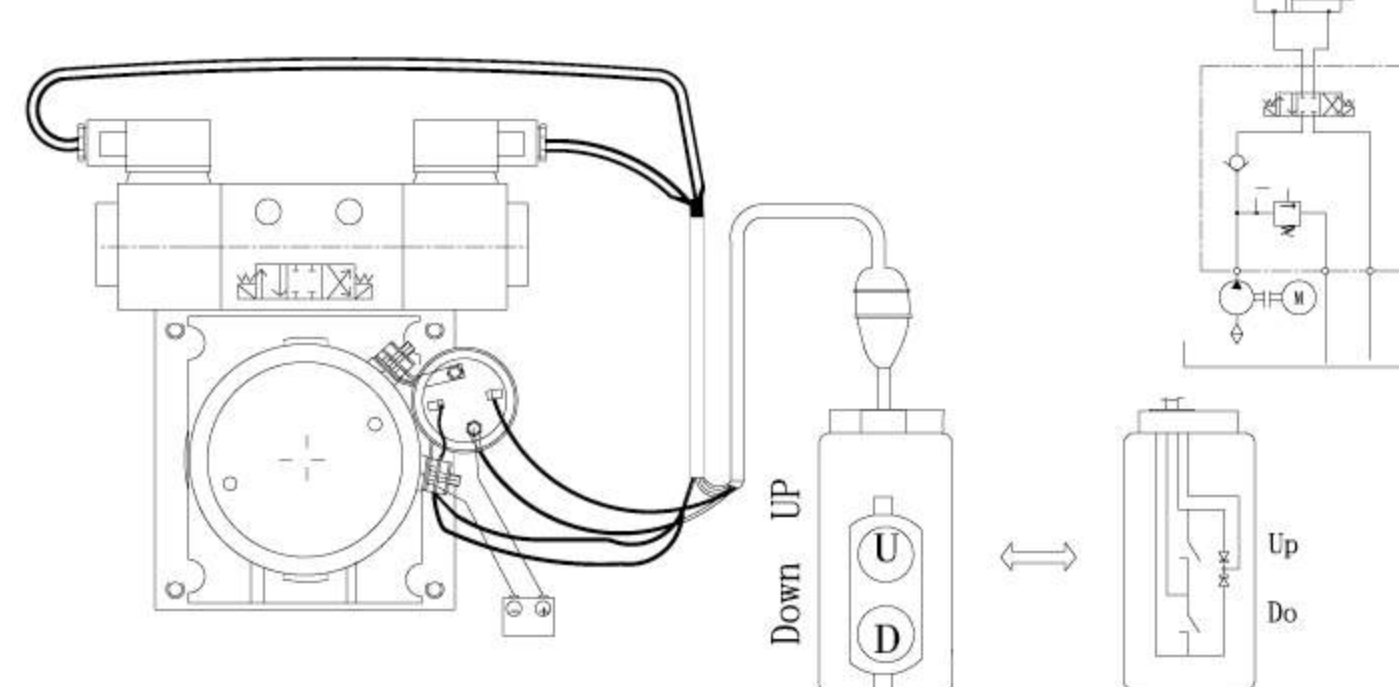
[www.vibo-hydraulics.com](http://www.vibo-hydraulics.com)  
[info@vibo-hydraulics.com](mailto:info@vibo-hydraulics.com)

# 启动开关

Relay Starter

**VIBO**

CE  
ISO9001

| 代号<br>Code                                                   | 电压<br>(V) | 电流<br>(A) | 尺寸<br>Size                                                                           | 接线<br>Connection                                                                      |
|--------------------------------------------------------------|-----------|-----------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| DK0212                                                       | 12        | 200       |    |    |
| DK0224                                                       | 24        | 150       |                                                                                      |                                                                                       |
| DK0312                                                       | 12        | 200       |  |  |
| DK0324                                                       | 24        | 150       |                                                                                      |                                                                                       |
| 单作用油缸用直流电机接线图<br>Connection with up-down for single cilinder |           |           |  |                                                                                       |
| 双作用油缸用直流电机接线图<br>Connection with up-down for double cilinder |           |           |  |                                                                                       |

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Fax:0086-517-83719555

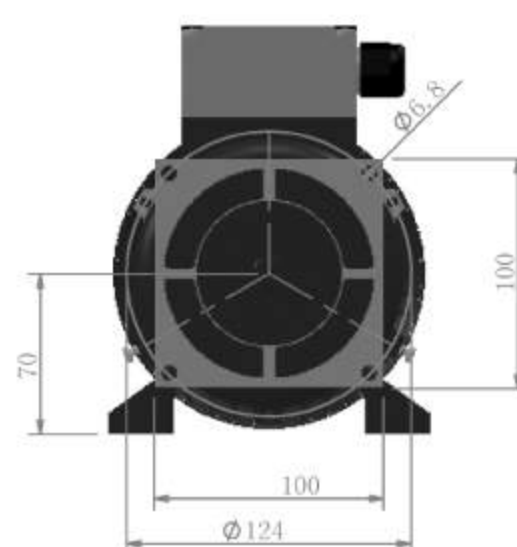
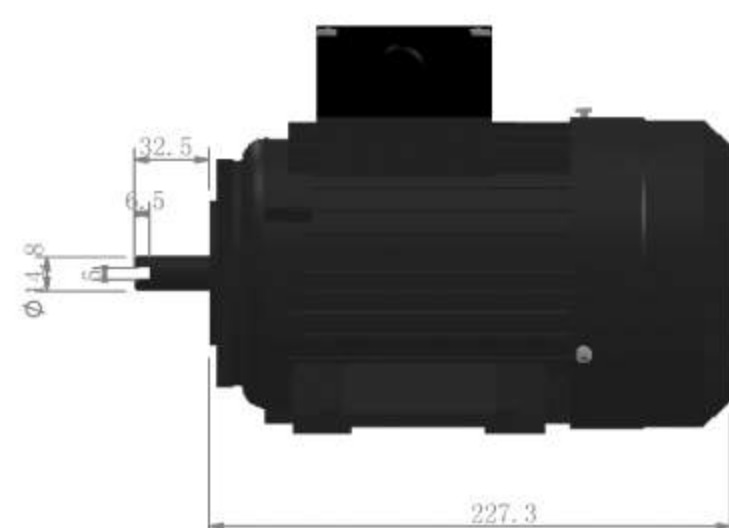
www.vibo-hydraulics.com  
info@vibo-hydraulics.com

# 交流电机

A. C. Motor

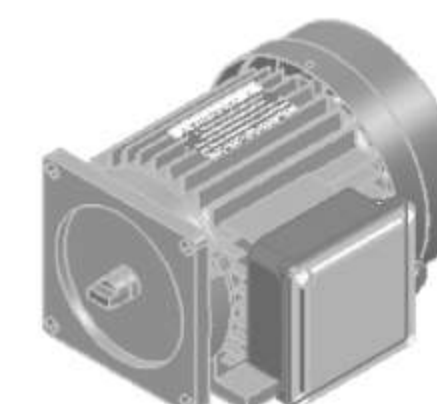
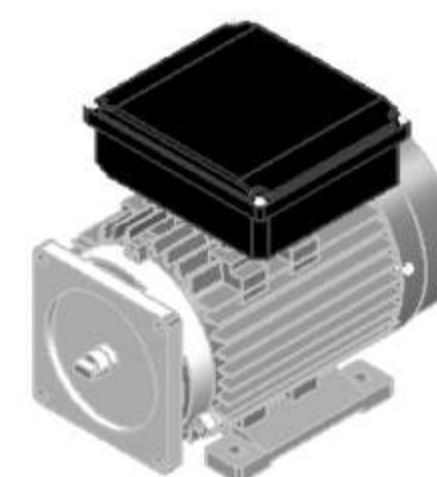
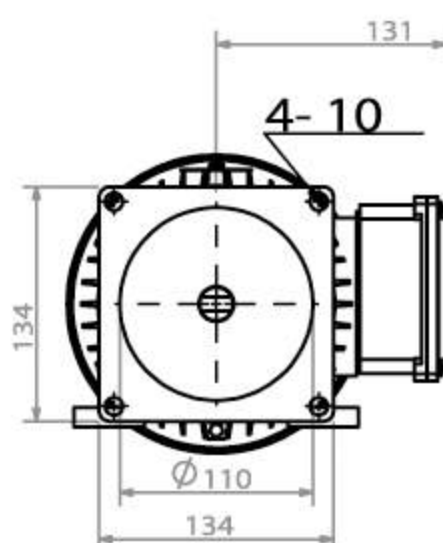
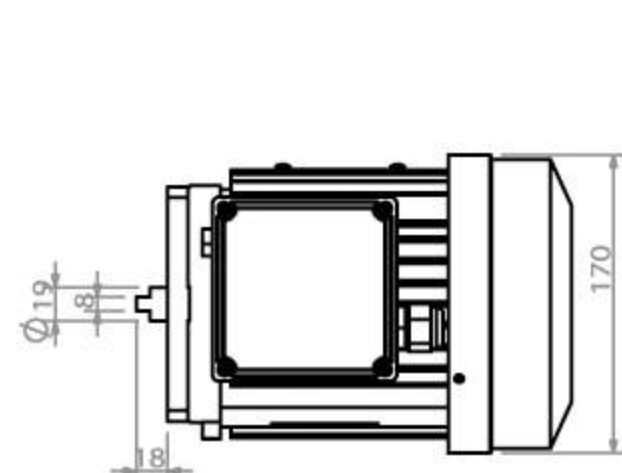


| 序号<br>item | 订货代码<br>order code | 额定电压<br>rated valtage | 额定功率<br>nominal power | 相数<br>phase | 频率<br>Hz | 额定转速<br>rotation speed | 工作制<br>operatin mode |
|------------|--------------------|-----------------------|-----------------------|-------------|----------|------------------------|----------------------|
| A1         | MS711-2            | 230V/400V             | 0.75                  | 3           | 50       | 2800                   | S1                   |
| A2         | ML711-2            | 220V                  | 0.75                  | 1           | 50       | 2800                   | S1                   |



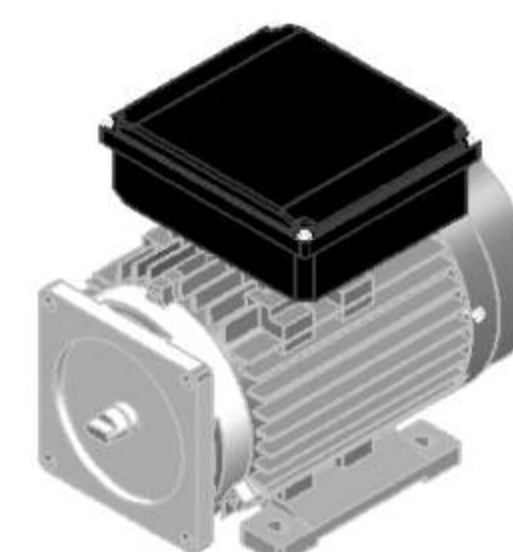
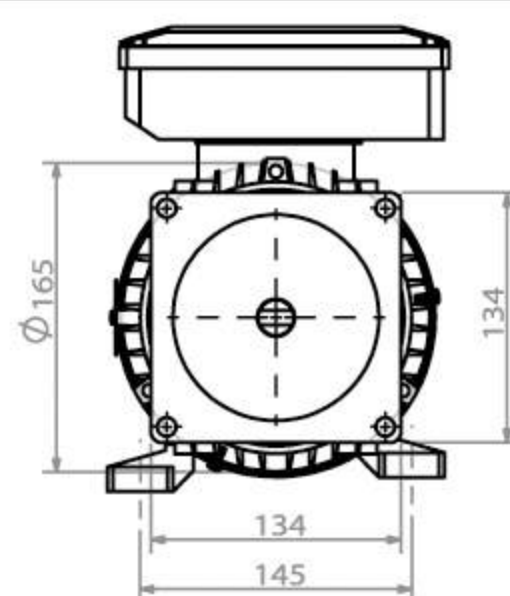
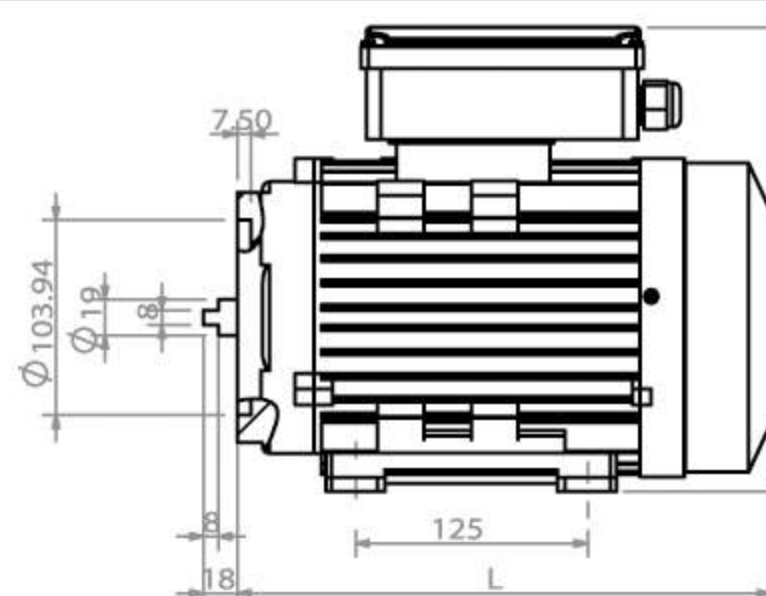
Ø 71 机座交流电机  
Ø 71 Frame AC motor

|    |          |      |        |   |    |         |    |
|----|----------|------|--------|---|----|---------|----|
| B2 | MS 801-2 | 380V | 0.75KW | 3 | 50 | 2800rpm | S3 |
| B4 | MS 801-4 | 380V | 0.75KW | 3 | 50 | 1400rpm | S3 |
| C2 | MS 802-2 | 380V | 1.1KW  | 3 | 50 | 2800rpm | S3 |
| C4 | MS 802-4 | 380V | 1.1KW  | 3 | 50 | 1400rpm | S3 |
| H2 | ML 801-2 | 220V | 0.75KW | 1 | 50 | 2800rpm | S3 |
| H4 | ML 802-4 | 220V | 0.75KW | 1 | 50 | 1400rpm | S3 |



Ø 80 机座交流电机  
Ø 80 Frame AC motor

|    |           |      |        |   |    |         |    |
|----|-----------|------|--------|---|----|---------|----|
| K2 | ML 90S1-2 | 110V | 1.5KW  | 1 | 60 | 3450rpm | S3 |
| K4 | ML 90S1-4 | 110V | 1.5KW  | 1 | 60 | 1750rpm | S3 |
| L2 | ML 90S2-2 | 220V | 1.85KW | 1 | 60 | 3450rpm | S3 |
| L4 | ML 90L2-4 | 220V | 1.85KW | 1 | 60 | 1750rpm | S3 |
| Q2 | ML 90L2-2 | 110V | 2.2KW  | 1 | 60 | 3450rpm | S3 |
| Q4 | ML 90L2-4 | 110V | 2.2KW  | 1 | 60 | 1750rpm | S3 |



Ø 80 机座交流电机  
Ø 80 Frame AC motor

Tel:0086-517-83719898 83719988  
Fax:0086-517-83719555

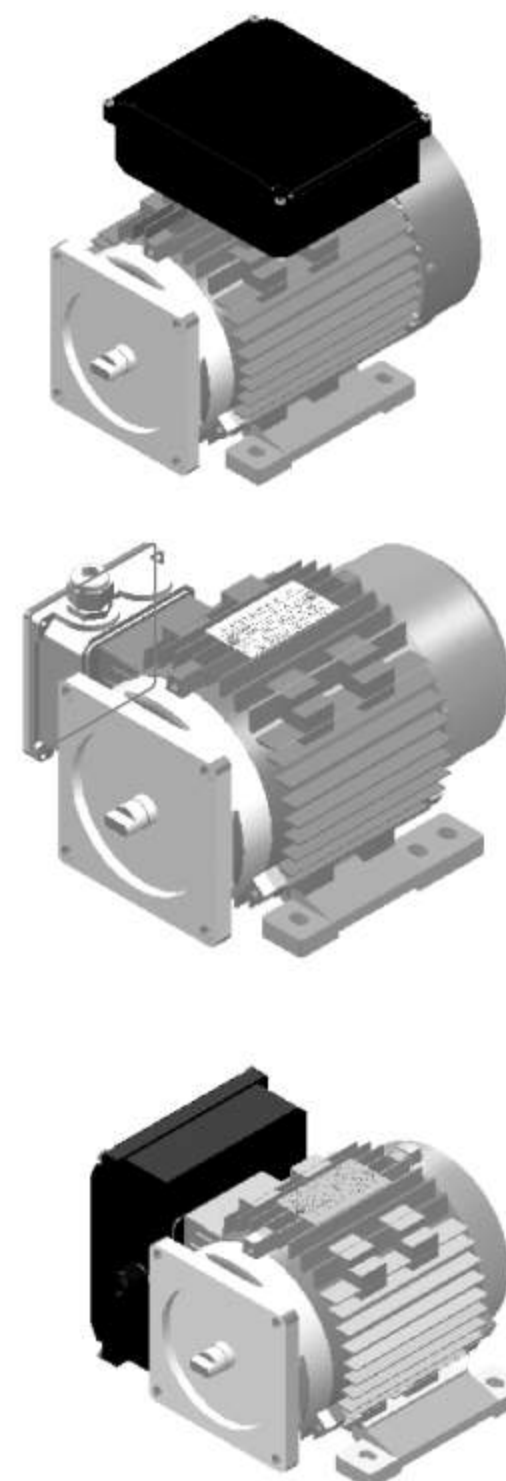
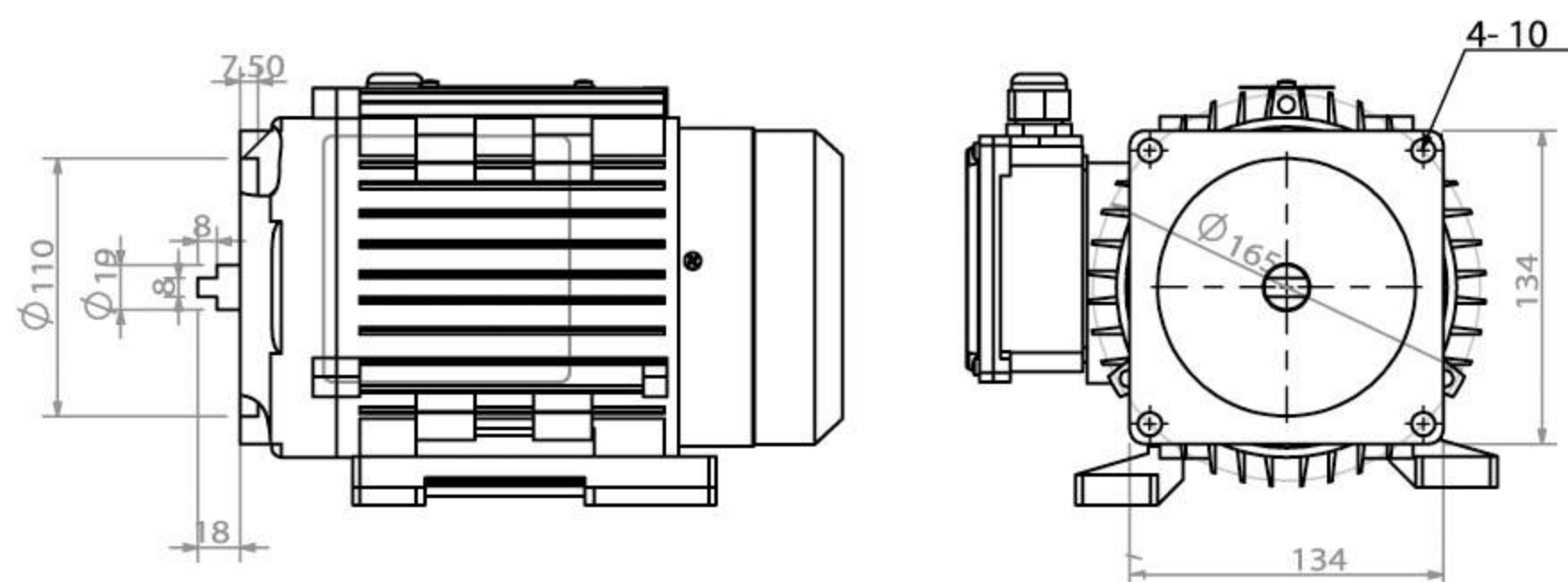
www.vibo-hydraulics.com  
info@vibo-hydraulics.com

# 交流电机

A. C. Motor

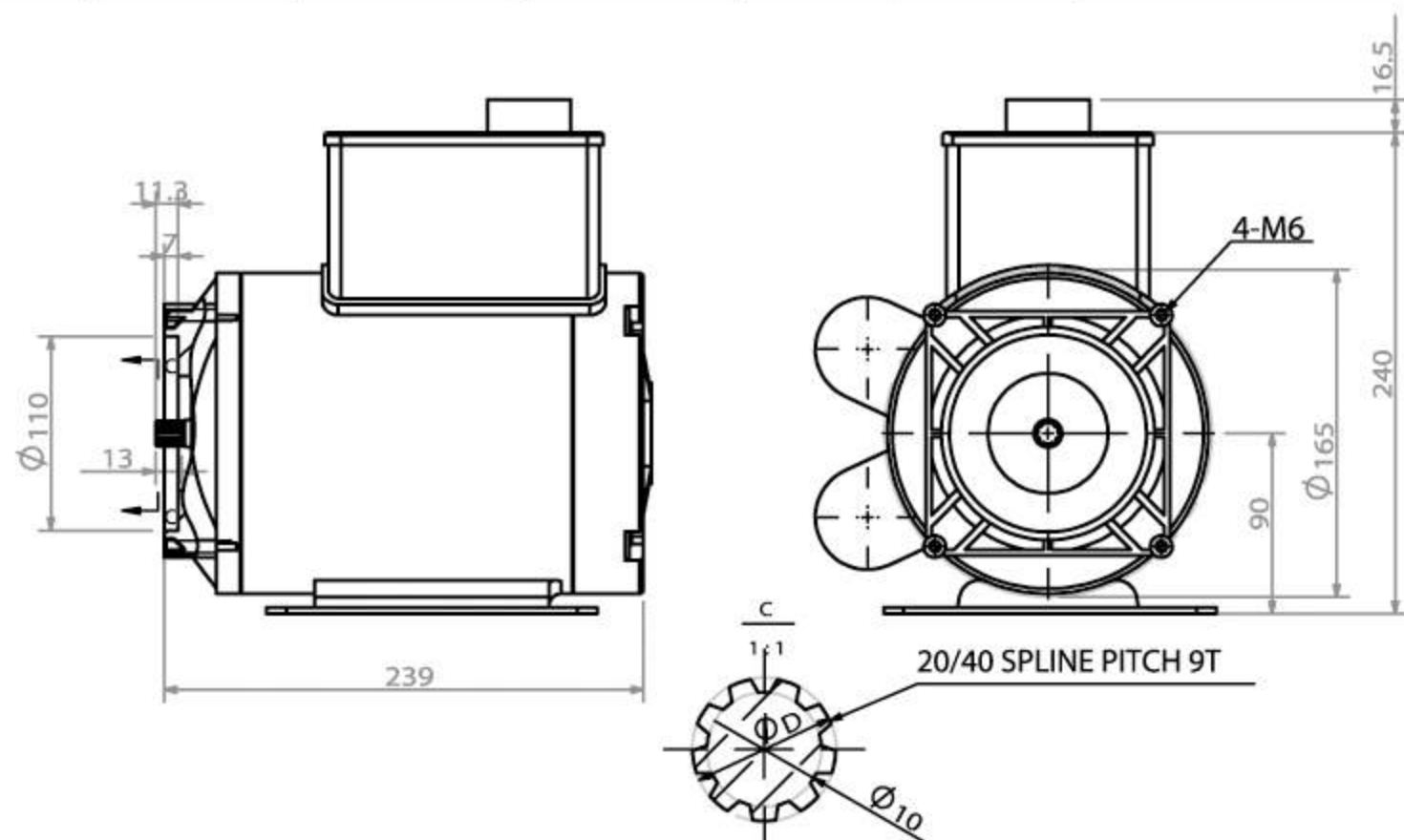


| 序号<br>item | 订货代码<br>order code | 额定电压<br>rated valtge | 额定功率<br>nominal power | 相数<br>phase | 频率<br>HZ | 额定转速<br>rotation speed | 工作制<br>operatin mode |
|------------|--------------------|----------------------|-----------------------|-------------|----------|------------------------|----------------------|
| D2         | MS90S-2            | 380V                 | 1.5KW                 | 3           | 50       | 2850rpm                | S3                   |
| D4         | MS90M1-4           | 380V                 | 1.5KW                 | 3           | 50       | 1400rpm                | S3                   |
| E2         | MS90S1-2           | 380V                 | 1.85KW                | 3           | 50       | 2850rpm                | S3                   |
| E4         | MS90M2-4           | 380V                 | 1.85KW                | 3           | 50       | 1400rpm                | S3                   |
| F2         | MS90L1-2           | 380V                 | 2.2KW                 | 3           | 50       | 2850rpm                | S3                   |
| F4         | MS90L2-4           | 380V                 | 2.2KW                 | 3           | 50       | 1400rpm                | S3                   |
| N2         | MS90L2-2           | 380V                 | 3.0KW                 | 3           | 50       | 2850rpm                | S3                   |
| I2         | ML90S-2            | 220V                 | 1.5KW                 | 1           | 50       | 2850rpm                | S3                   |
| I4         | ML90L1-4           | 220V                 | 1.5KW                 | 1           | 50       | 1400rpm                | S3                   |
| J2         | ML90L1-2           | 220V                 | 1.85KW                | 1           | 50       | 2850rpm                | S3                   |
| J4         | ML90L2-4           | 220V                 | 1.85KW                | 1           | 50       | 1400rpm                | S3                   |
| R2         | ML90L2-2           | 220V                 | 2.2KW                 | 1           | 50       | 2850rpm                | S3                   |



Ø 90 机座交流电机  
Ø 90 Frame AC motor

|    |         |      |       |   |    |         |    |
|----|---------|------|-------|---|----|---------|----|
| Y1 | YL90L-2 | 110V | 2.2KW | 1 | 60 | 3450rpm | S3 |
| Y2 | YL90L-2 | 220V | 2.2KW | 1 | 50 | 2850rpm | S3 |
| Y3 | YS90L-2 | 380V | 2.2KW | 3 | 50 | 2850rpm | S3 |



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Steel motor

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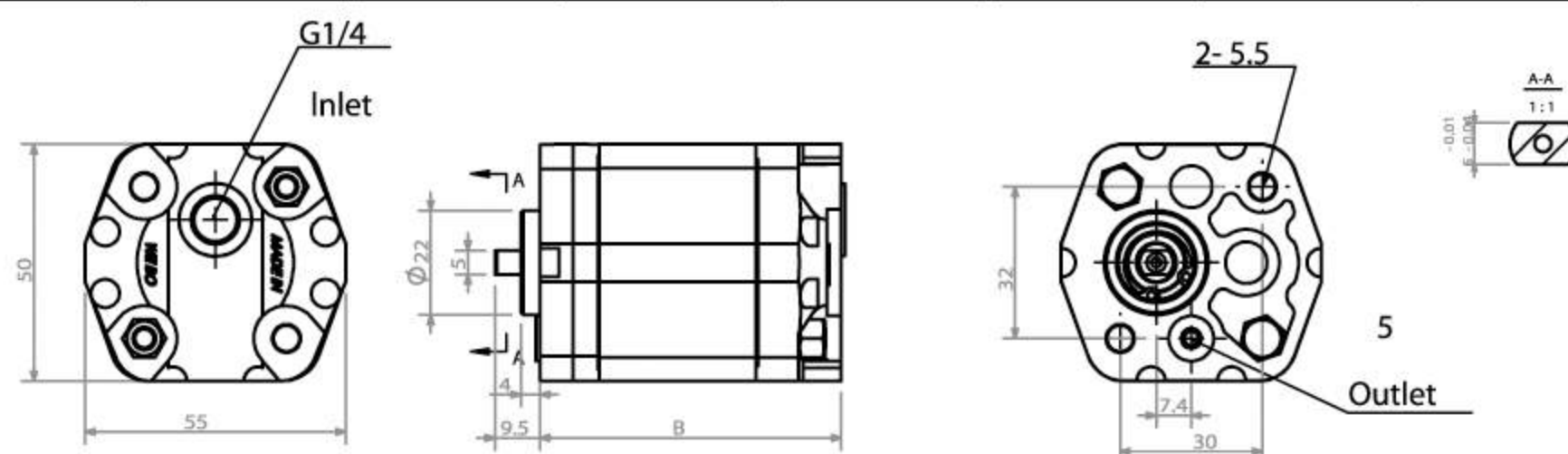
# 齿轮泵

Gear pump

# VIBO

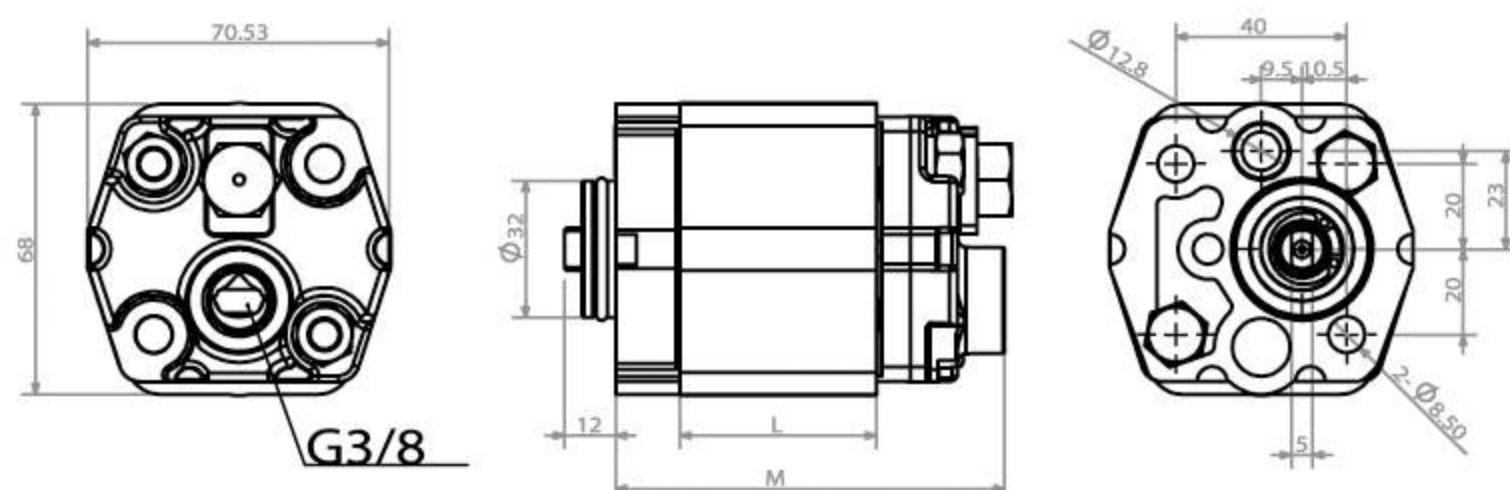
CE  
ISO9001

| 代号<br>item | 型号<br>type | 公称排量<br>(ml/r) | 额定压力<br>rated pressure<br>(Mpa) | 最高压力<br>maximum<br>pressure<br>(Mpa) | 转速<br>imum speed<br>(r/min) | 容积效率<br>Volumetric<br>efficiency<br>(%) | B (mm) |
|------------|------------|----------------|---------------------------------|--------------------------------------|-----------------------------|-----------------------------------------|--------|
| UA         | CBU-F1016  | 0.16           | 17.0                            | 20.0                                 | 3500                        | ≥83                                     | 59.7   |
| UB         | CBU-F1025  | 0.25           | 17.0                            | 20.0                                 | 3500                        | ≥83                                     | 60.3   |
| UC         | CBU-F1050  | 0.50           | 17.0                            | 20.0                                 | 3500                        | ≥85                                     | 62     |
| UD         | CBU-F1075  | 0.75           | 17.0                            | 20.0                                 | 3500                        | ≥85                                     | 64     |
| UE         | CBU-F1100  | 1.00           | 17.0                            | 20.0                                 | 3500                        | ≥90                                     | 65.3   |
| UF         | CBU-F1125  | 1.25           | 17.0                            | 20.0                                 | 3500                        | ≥90                                     | 67     |
| UG         | CBU-F1150  | 1.50           | 17.0                            | 20.0                                 | 3500                        | ≥95                                     | 68.5   |
| UH         | CBK-F1175  | 1.75           | 17.0                            | 20.0                                 | 3500                        | ≥95                                     | 70.2   |
| UI         | CBU-F1200  | 2.00           | 17.0                            | 20.0                                 | 3500                        | ≥95                                     | 72     |



CBU-F 100 Type Gear pump  
CBU-F 100 齿轮泵

| 代号<br>item | 型号<br>type | 公称排量<br>(ml/r) | 额定压力<br>rated pressure<br>(Mpa) | 最高压力<br>maximum pressure<br>(Mpa) | 额定转速<br>rated speed<br>(r/min) | 最高转速<br>maximum speed<br>(r/min) | 容积效率<br>Volumetric<br>efficiency<br>(%) | L (mm) | M (mm) |
|------------|------------|----------------|---------------------------------|-----------------------------------|--------------------------------|----------------------------------|-----------------------------------------|--------|--------|
| KA         | CBK-F106   | 0.6            | 20.0                            | 25.0                              | 2500                           | 3500                             | ≥85                                     | 33     | 71     |
| KB         | CBK-F1075  | 0.75           | 20.0                            | 25.0                              | 2500                           | 3500                             | ≥85                                     | 34     | 72     |
| KC         | CBK-F110   | 1.0            | 20.0                            | 25.0                              | 2500                           | 3500                             | ≥85                                     | 36     | 74     |
| KD         | CBK-F116   | 1.6            | 20.0                            | 25.0                              | 2500                           | 3500                             | ≥92                                     | 38     | 76     |
| KE         | CBK-F120   | 2.0            | 20.0                            | 25.0                              | 2500                           | 3500                             | ≥92                                     | 40     | 78     |
| KF         | CBK-F125   | 2.5            | 20.0                            | 25.0                              | 2500                           | 3500                             | ≥95                                     | 42     | 80     |
| KG         | CBK-F133   | 3.3            | 20.0                            | 22.0                              | 2500                           | 3500                             | ≥95                                     | 44     | 82     |
| KH         | CBK-F142   | 4.2            | 16.0                            | 20.0                              | 2500                           | 3500                             | ≥95                                     | 48     | 84     |
| KI         | CBK-F158   | 5.8            | 16.0                            | 20.0                              | 2500                           | 3500                             | ≥95                                     | 52     | 86     |



CBK-F 100 Type Gear pump  
CBK-F 100 齿轮泵

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# 单向阀

Check valve



| 代号<br>Code | 外形尺寸<br>Size | 液压原理图<br>Diagram | 应用阀块类型<br>Compatibility<br>ceter manifold | 操作工具<br>tooling |
|------------|--------------|------------------|-------------------------------------------|-----------------|
| CV-01      |              |                  | CMB1 CMB2 CMD1<br>CMD2 CMD3 CME           | S=22<br>        |
| CV-02      |              |                  | CMC1 CMC2 CMC3                            | S=5<br>         |
| CV-03      |              |                  |                                           |                 |
| CV-04      |              |                  | CMF                                       | S=19<br>        |
| CV-05      |              |                  | MB18<br>MB19                              | S=6<br>         |
| CV-06      |              |                  | CMA                                       | S=17<br>        |

# 压力阀

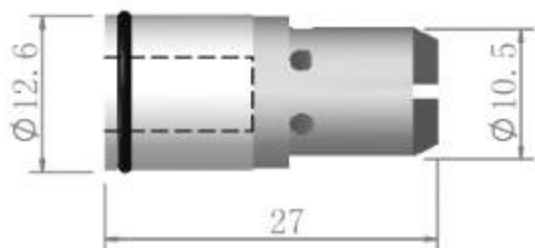
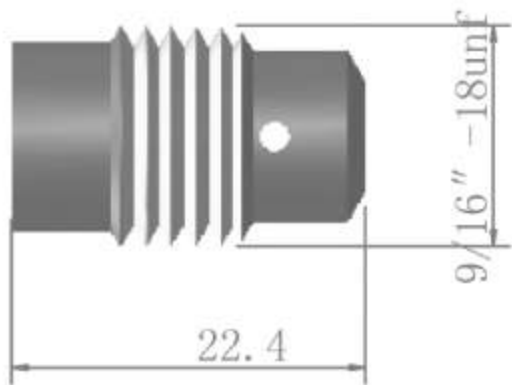
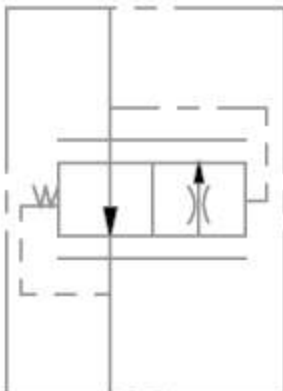
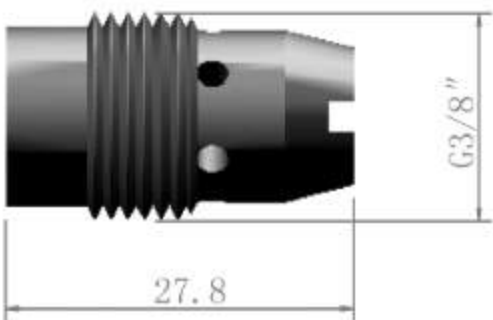
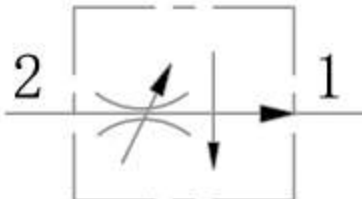
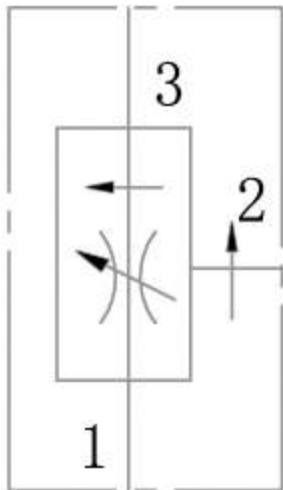
Relief valve



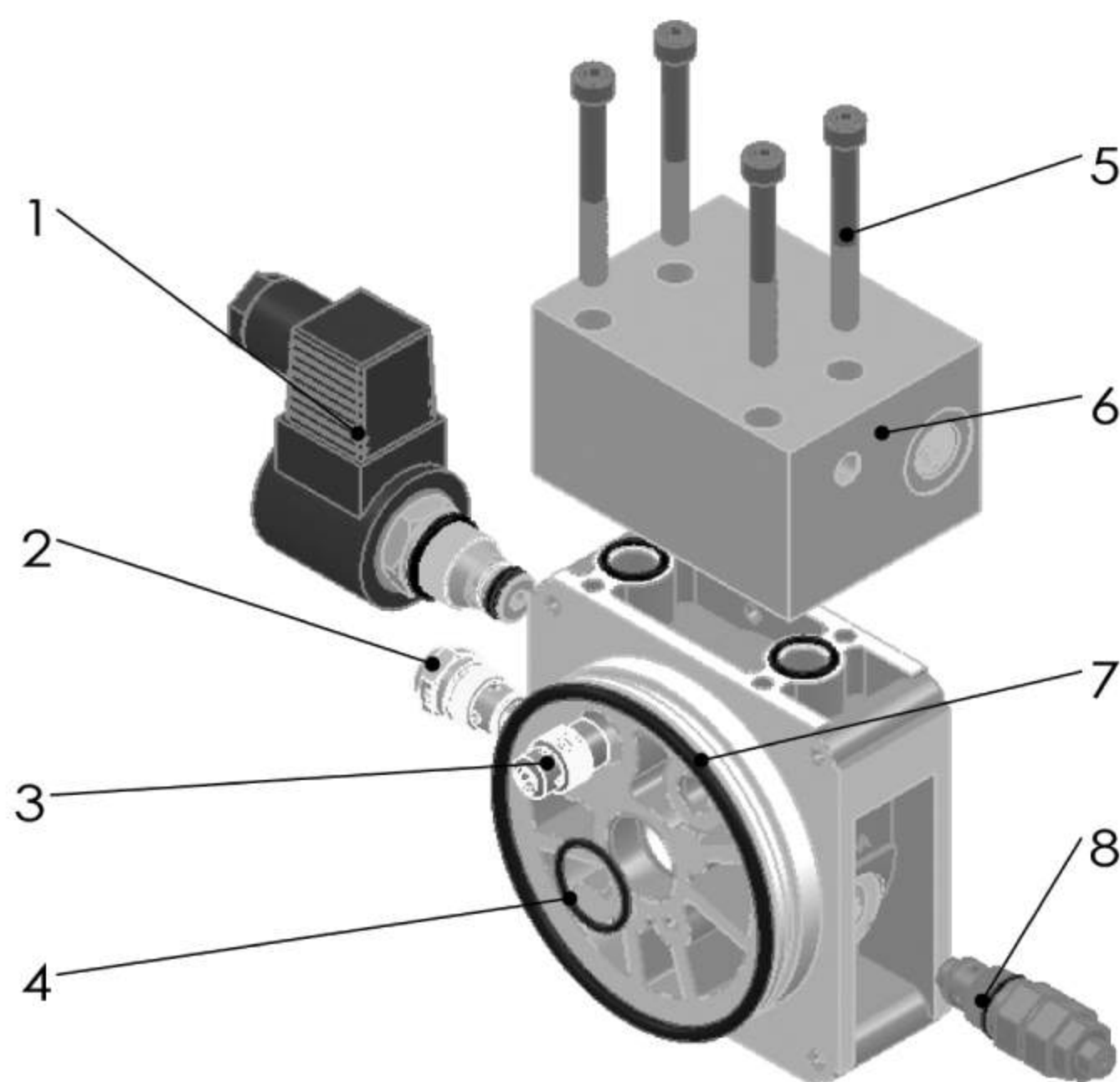
| 代号<br>Code | 外形尺寸<br>Size | 液压原理图<br>Diagram                                                                                                                                                | 应用阀块类型<br>Compatibility<br>ceter manifold | 操作工具<br>tooling |
|------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------|
| RV-01      |              | <br><br>压力范围<br>Pressure Range<br>A:10-100 bar<br>B:20-140 bar<br>C:30-250 bar<br>D:70-350 bar<br>订货时请标注<br>在代号后面<br>Mark A-D type at<br>the end of the<br>code | CMB02                                     | S=22<br>        |
| RV-02      |              |                                                                                                                                                                 | CMB1 CMB2<br>CME CML                      | S=24<br>        |
| RV-03      |              |                                                                                                                                                                 | CMC1 CMC2 CMC3<br>CMD1 CMD2 CMD3          | S=24<br>        |
| RV-04      |              |                                                                                                                                                                 |                                           | S=24<br>        |
| RV-05      |              |                                                                                                                                                                 | CMB1 CMB2<br>CME CML                      | S=24<br>        |
| RV-06      |              |                                                                                                                                                                 | CMA                                       | S=17<br>        |

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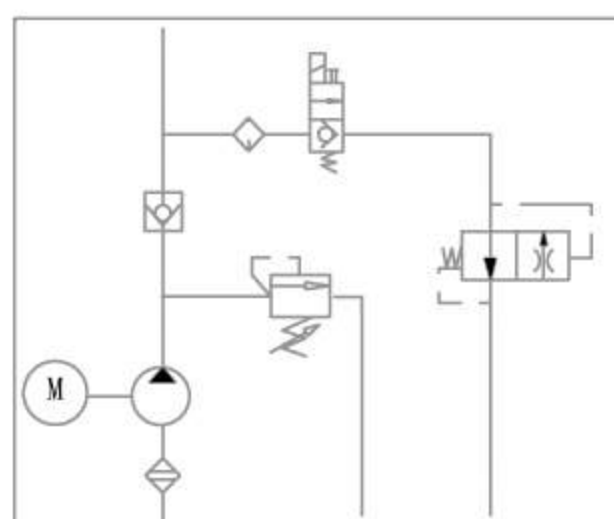
| 流量补偿阀<br>Regulator Pressure-compensated valve |                                                                                     |                                                                                      | <div>VIBO</div> <div>CE</div> <div>ISO9001</div> |                   |                                                |
|-----------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|-------------------|------------------------------------------------|
| 代号<br>Code                                    | 外形尺寸<br>Size                                                                        | 液压原理图<br>Diagram                                                                     | 订货说明<br>note                                     |                   |                                                |
| RPCV-01                                       |    |                                                                                      | RPCV-01压力流量补偿阀                                   |                   |                                                |
|                                               |                                                                                     |                                                                                      | 订货代码                                             | 额定调节流量<br>(L/min) | 应用阀块类型                                         |
|                                               |                                                                                     |                                                                                      | RPCV-01-02                                       | 2                 | CMB1 CME                                       |
|                                               |                                                                                     |                                                                                      | RPCV-01-03                                       | 3                 |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-01-04                                       | 4                 |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-01-05                                       | 5                 |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-01-06                                       | 6                 |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-01-08                                       | 8                 |                                                |
| RPCV-02                                       |   |   | RPCV-02压力流量补偿阀                                   |                   |                                                |
|                                               |                                                                                     |                                                                                      | 订货代码                                             | 额定调节流量<br>(L/min) | 应用阀块类型                                         |
|                                               |                                                                                     |                                                                                      | RPCV-02-03                                       | 3                 | CMA CMB1<br>CMB2 CMC<br>CMD1 CMD2<br>CMD3 CMDF |
|                                               |                                                                                     |                                                                                      | RPCV-02-04                                       | 4                 |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-02-05                                       | 5                 |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-02-06                                       | 6                 |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-02-08                                       | 8                 |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-02-10                                       | 10                |                                                |
| RPCV-02-12                                    | 12                                                                                  |                                                                                      |                                                  |                   |                                                |
| RPCV-03                                       |  |                                                                                      | RPCV-03压力流量补偿阀                                   |                   |                                                |
|                                               |                                                                                     |                                                                                      | 订货代码                                             | 额定调节流量<br>(L/min) | 应用阀块类型                                         |
|                                               |                                                                                     |                                                                                      | RPCV-03-04                                       | 4                 | 按需要                                            |
|                                               |                                                                                     |                                                                                      | RPCV-03-06                                       | 6                 |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-03-08                                       | 8                 |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-03-10                                       | 10                |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-03-12                                       | 12                |                                                |
|                                               |                                                                                     |                                                                                      | RPCV-03-16                                       | 16                |                                                |
| RPCV-04                                       |  |  | RPCV-04可调压力流量补偿阀                                 |                   |                                                |
|                                               |                                                                                     |                                                                                      | 订货代码                                             | 额定调节流量<br>(L/min) | 应用阀块类型                                         |
|                                               |                                                                                     |                                                                                      | RPCV-04-8                                        | 1-8               | CMD1 CMD2<br>CMD3                              |
|                                               |                                                                                     |                                                                                      | RPCV-04-8                                        | 6-32              |                                                |
| RPCV-05                                       |  |  | RPCV-05 分流调速阀                                    |                   |                                                |

## 二、爆炸图 Exploded Drawing



| 序号<br>Item | 部件名称<br>Part name                      | 代码<br>Part code |
|------------|----------------------------------------|-----------------|
| 1          | 电磁阀<br>Solenoid valve                  | SCV (E)         |
|            |                                        |                 |
| 2          | 单向阀<br>Check Valve                     | CV-06           |
|            |                                        |                 |
| 3          | 压力补偿节流阀<br>pressure compensation valve | RPCV-02         |
|            |                                        |                 |
| 4          | O型圈<br>O-RING                          | φ 21.2X1.8      |
|            |                                        |                 |
| 5          | 内六角螺栓<br>Hexagon bolt                  | M6X55           |
|            |                                        |                 |
| 6          | 叠加块<br>Block stacking                  | MB15            |
|            |                                        |                 |
| 7          | O型圈<br>O-ring                          | φ 87.5X3.55     |
|            |                                        |                 |
| 8          | 溢流阀<br>Relief valve                    | RV-06           |
|            |                                        |                 |

## 三、典型原理图 Hydraulic Schematic



## 四、使用说明 Operation Directions

### 1、二位二通附手动、电磁阀SCV (E) 图示1号零件

- ① 应急按钮如果是红色的，操作时向内按往右旋为保压正常工作。向内按往左旋为松开放油、卸压。
- ② 应急按钮如果是黄色的，操作时直接右旋为旋紧保压正常工作。直接左旋为松开放油、卸压。

### 2、压力补偿节流阀RPCV-02图示2号零件，下降速度（流量）选配。

### 3、调压阀RV-06图示8号零件：出厂时压力已调节好请不要随意调节。需要调节压力时，松开锁紧螺母，

- ① 用3mm内六角扳手，右旋增加压力；左旋减少压力。
- ② 压力调节合适后，请锁紧螺母。

### 4、MB15叠加块属选用配件，配装叠加阀使用。

### 1.Fitting part of Item 1: 2 Position-2 Way Solenoid Release Valve SCV (E) code

①With red emergency push button: Push and turn right down: pressure holding and oil working Push and turn left: pressure released and oil returning to the tank..

②With yellow emergency push button: Directly turn right down: pressure holding and oil working. Directly turn left: pressure released and oil returning to the tank.

### 2. Fitting part of Item 2: Pressure Compensated Down-Speed Control Valve RPCV code

Optional type with different flow rate

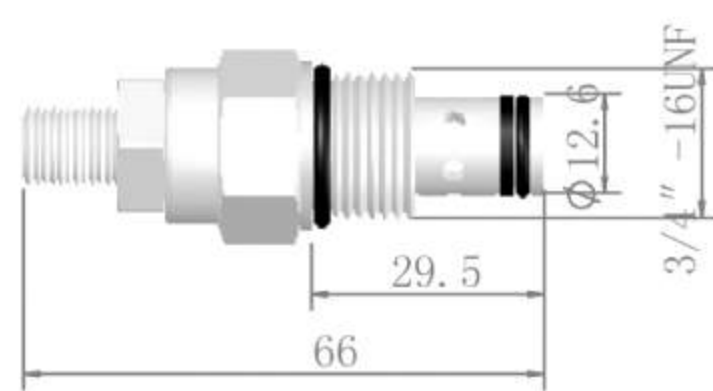
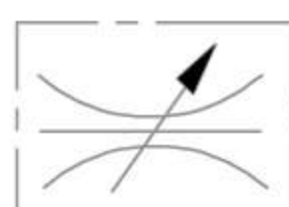
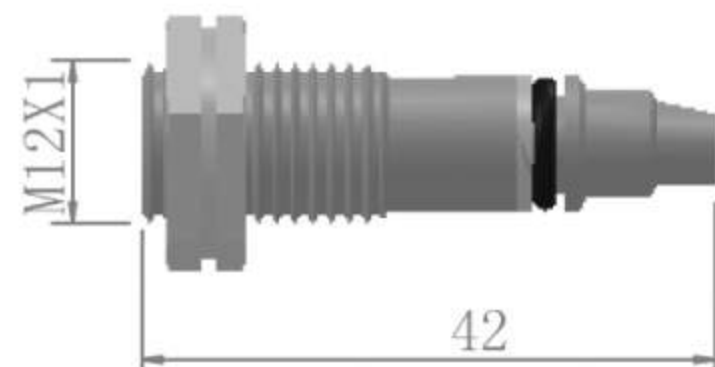
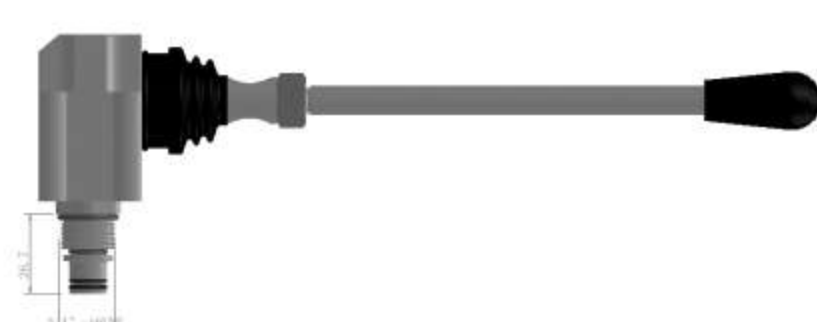
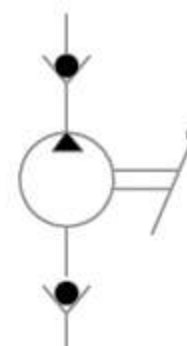
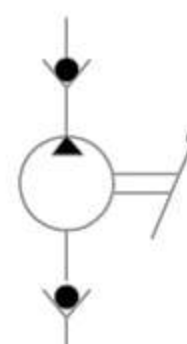
### 3. Fitting part of Item 8: Relief Valve RV-06 code

The pressure has been adjusted in regular data in delivery inspection, and user self- adjusting is forbidden for this valve. For necessary adjustment by expert operation guiding:

Loosen the tight nut--- with 3mm socket screw wrench, turn right for pressure up; turn left for pressure down---tighten the nut after adjustment operation.

### 4. Fitting part of Item 6:

operational match part for the fitting of modular valve (Cetop valve) MB15 code

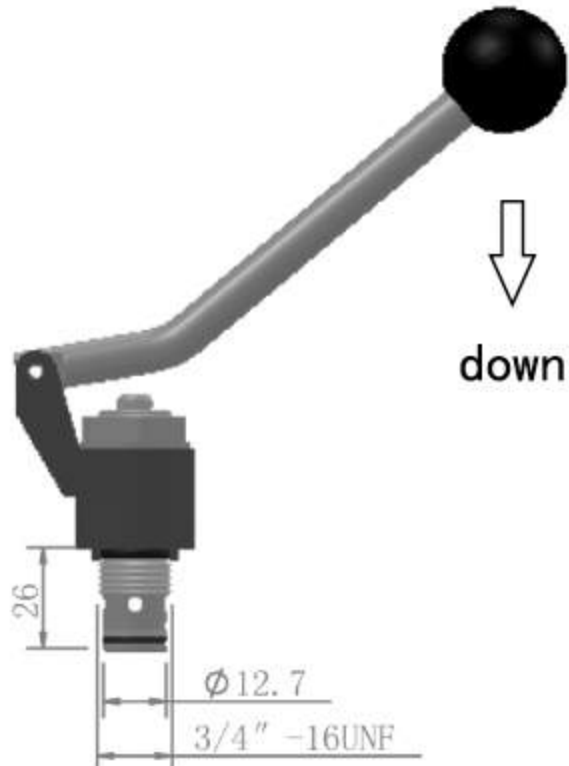
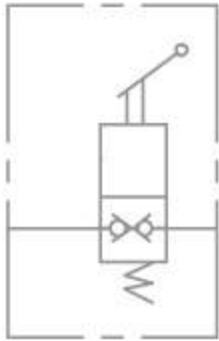
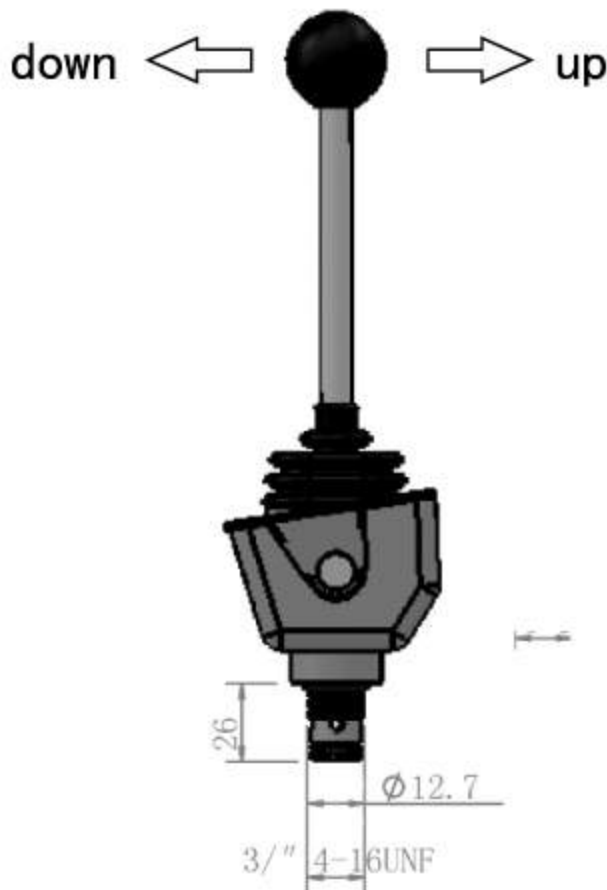
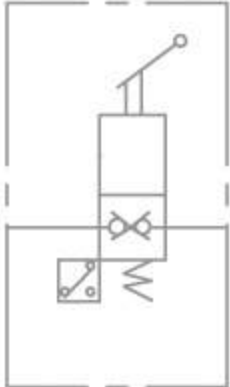
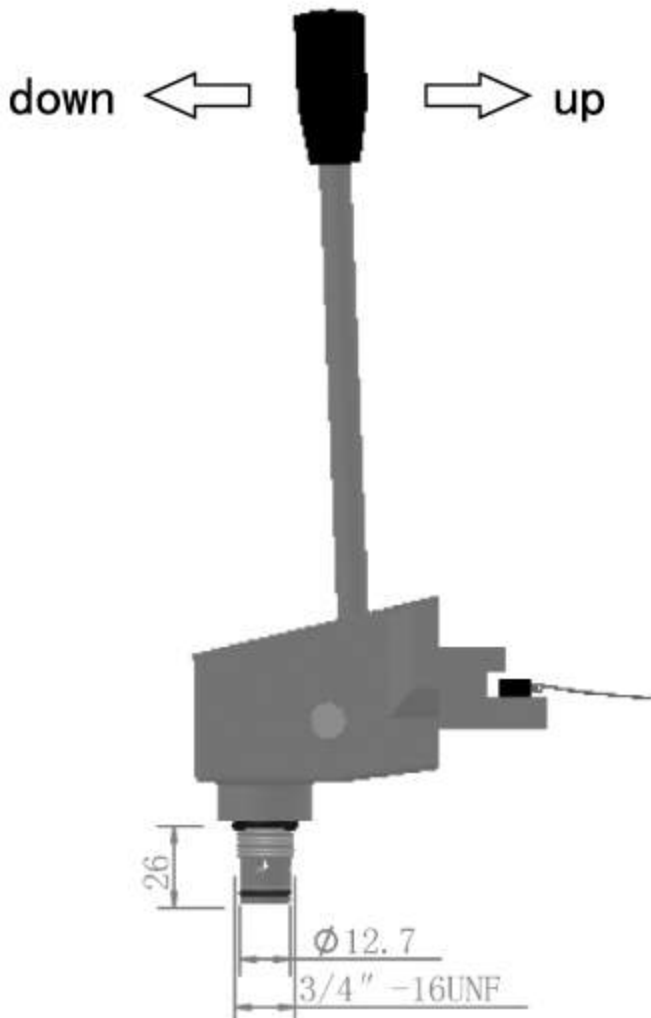
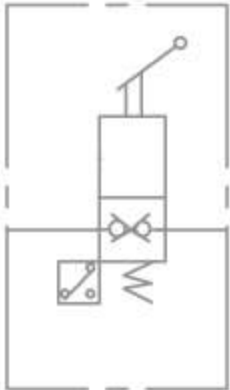
| 节流阀<br>Flow control valve |                                                                                      | VIBO<br>CE<br>ISO9001                                                                 |                                                             |
|---------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 代号<br>Code                | 外形尺寸<br>Size                                                                         | 液压原理图<br>Diagram                                                                      | 应用阀块类型<br>Compatibility<br>ceter manifold                   |
| FCV-01                    |     |    | CMC1、CMD1<br>CMD2、MB03                                      |
| FCV-02                    |   |                                                                                       | CMB1-02、CMD1、CML                                            |
| 手动泵<br>Hand Pump          |                                                                                      |                                                                                       |                                                             |
| 代号<br>Code                | 外形尺寸<br>Size                                                                         | 液压原理图<br>Diagram                                                                      | 使用说明<br>note                                                |
| HP-20                     |  |  | 1、最大压力:20Mpa<br>P. Max: 20Mpa<br>2、2.0CC/行程<br>2.0CC/stroke |
| HP-80                     |  |  | 1、最大压力:21Mpa<br>P. Max: 21Mpa<br>2、8.0CC/行程<br>8.0CC/stroke |

# 手动阀

Manual Release Valve

**VIBO**

CE  
ISO9001

| 代号<br>Code | 外形尺寸<br>Size                                                                        | 液压原理图<br>Diagram                                                                     | 应用阀块类型<br>Compatibility<br>ceter manifold |
|------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------|
| MV-01      |   |    | <p>CMB1</p> <p>CMB1-02</p> <p>CMD1</p>    |
| MV-02      |  |  | <p>CMB1—01</p> <p>CMD2</p>                |
| MV-03      |  |  | <p>CMB2</p>                               |

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# 插装式电磁阀

Cartridge Solenoid Release Valve



| 代号<br>Code                                                                        | 外形尺寸<br>Size | 液压原理图<br>Diagram | 使用说明<br>Note                                                                                                                            |
|-----------------------------------------------------------------------------------|--------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| SCV-012DC<br>SCV-024DC<br>SCV-024AC<br>SCV-110AC<br>SCV-220AC                     |              |                  | SCV常闭型两位两通电磁阀<br>SCV Normal close Two way, two position Cartridge Solenoid Valve                                                        |
| SOV-012DC<br>SOV-024DC<br>SOV-024AC<br>SOV-110AC<br>SOV-220AC                     |              |                  | SOV常开型两位两通电磁阀<br>SOV Normal Open, Two way, two position Cartridge Solenoid Valve                                                        |
| SDV-012DC<br>SDV-024DC<br>SDV-024AC<br>SDV-110AC<br>SDV-220AC                     |              |                  | SDV双向止回型两位两通电磁阀<br>SDV Double check, two way two position Cartridge Solenoid Valve                                                      |
| SCV(E)-R012DC<br>SCV(E)-R024DC<br>SCV(E)-R024AC<br>SCV(E)-R110AC<br>SCV(E)-R220AC |              |                  | SCV(E)-R型附手动常闭电磁阀<br>(红色按钮)<br>SCV(E)-R Normal Close, Two way, two position button Cartridge Solenoid Valve with emergency (Red button) |

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# 插装式电磁阀

Cartridge Solenoid Release Valve



| 代号<br>Code                                                                        | 外形尺寸<br>Size | 液压原理图<br>Diagram | 使用说明<br>Note                                                                                                                                                   |
|-----------------------------------------------------------------------------------|--------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCV(E)-Y012DC<br>SCV(E)-Y024DC<br>SCV(E)-Y024AC<br>SCV(E)-Y110AC<br>SCV(E)-Y220AC |              |                  | <b>SCV(E)-Y型附手动常闭电磁阀</b><br><b>(黄色按钮)</b><br>SCV(E)-Y Normal Close, Two way, two position<br>button Cartridge Solenoid Valve with emergency<br>(Yellow button) |
| SV23012DC<br>SV23024DC<br>SV23024AC<br>SV23110AC<br>SV23220AC                     |              |                  | <b>SV23型两位三通电磁阀</b><br>SV23 type three way, two position<br>Cartridge Solenoid Valve                                                                           |
| SV24012DC<br>SV24024DC<br>SV24024AC<br>SV24110AC<br>SV24220AC                     |              |                  | <b>SV24型两位四通电磁阀</b><br>SV24 type Four Way, two position<br>Cartridge Solenoid Valve                                                                            |
| SV34012DC<br>SV34024DC<br>SV34024AC<br>SV34110AC<br>SV34220AC                     |              |                  | <b>SV34型三位四通电磁阀</b><br>SV34 type Four way, three position<br>Cartridge Solenoid Valve                                                                          |

# 叠加电磁阀

Standard Cetop Valve



| 代号<br>Code                       | 外形尺寸<br>Size | 电压<br>Voltage           | 原理图<br>Diagram | 使用说明<br>note                                     |
|----------------------------------|--------------|-------------------------|----------------|--------------------------------------------------|
| SV34012G<br>SV34024G<br>SV34220G |              | 12VDC<br>24VDC<br>220AC |                | SV三位四通电磁叠加阀G型<br>P Max:250bar;<br>Q Max:30L/min; |
| SV34012E<br>SV34024E<br>SV34220E |              | 12VDC<br>24VDC<br>220AC |                | SV三位四通电磁叠加阀E型<br>P Max:250bar;<br>Q Max:30L/min; |
| SV34012H<br>SV34024H<br>SV34220H |              | 12VDC<br>24VDC<br>220AC |                | SV三位四通电磁叠加阀E型<br>P Max:250bar;<br>Q Max:30L/min; |
| SV34012Y<br>SV34024Y<br>SV34220Y |              | 12VDC<br>24VDC<br>220AC |                | SV三位四通电磁叠加阀Y型<br>P Max:250bar;<br>Q Max:30L/min; |
| SV24012A<br>SV24024A<br>SV24220A |              | 12VDC<br>24VDC<br>220AC |                | SV两位四通电磁叠加阀<br>P Max:250bar;<br>Q Max:30L/min;   |

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# 标准过渡块系列

Standard modular elements serial



| 代号<br>Code | 外形尺寸<br>Size | 液压原理图<br>Diagram | 应用阀块类型<br>Compatibility<br>ceter manifold                                             |
|------------|--------------|------------------|---------------------------------------------------------------------------------------|
| MB01       |              |                  | CMA                                                                                   |
| MB02       |              |                  | 应用于标准叠加阀,<br>A口均溢流<br>For standard cetop<br>with relief valve<br>RV-01 on A           |
|            |              |                  | 应用于标准叠加阀,<br>B口溢流<br>For standard cetop<br>with relief valve<br>RV-01 on B            |
|            |              |                  | 应用于标准叠加阀,<br>A、B口溢流<br>For standard cetop<br>with relief valve<br>RV-01 on A and B    |
| MB03       |              |                  | 应用于标准叠加阀,<br>A、B口均节流<br>For standard cetop<br>with control valve<br>FCV-01 on A and B |
|            |              |                  | 应用于标准叠加阀,<br>A口节流<br>For standard cetop<br>with control valve<br>FCV-01 on A          |
|            |              |                  | 应用于标准叠加阀,<br>B口节流<br>For standard cetop<br>with control valve<br>FCV-01 on B          |
| MB04       |              |                  | 应用标准叠加阀<br>For standard cetop<br>valve                                                |
| MB05       |              |                  | 应用于标准叠加阀,<br>A、B口均节流<br>For standard cetop<br>valve                                   |

# 标准过渡块系列

Standard modular elements serial



| 代号<br>Code | 外形尺寸<br>Size | 液压原理图<br>Diagram | 应用阀块类型<br>Compatibility<br>ceter manifold |
|------------|--------------|------------------|-------------------------------------------|
| MB10       |              |                  | CMC<br>CME                                |
| MB11       |              |                  | CMC<br>CME                                |
| MB12       |              |                  |                                           |
| MB13       |              |                  | CMC<br>CME                                |
| MB14       |              |                  | CMC<br>CME                                |
| MB15       |              |                  | CMC                                       |

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# 标准过渡块系列

Standard modular elements serial



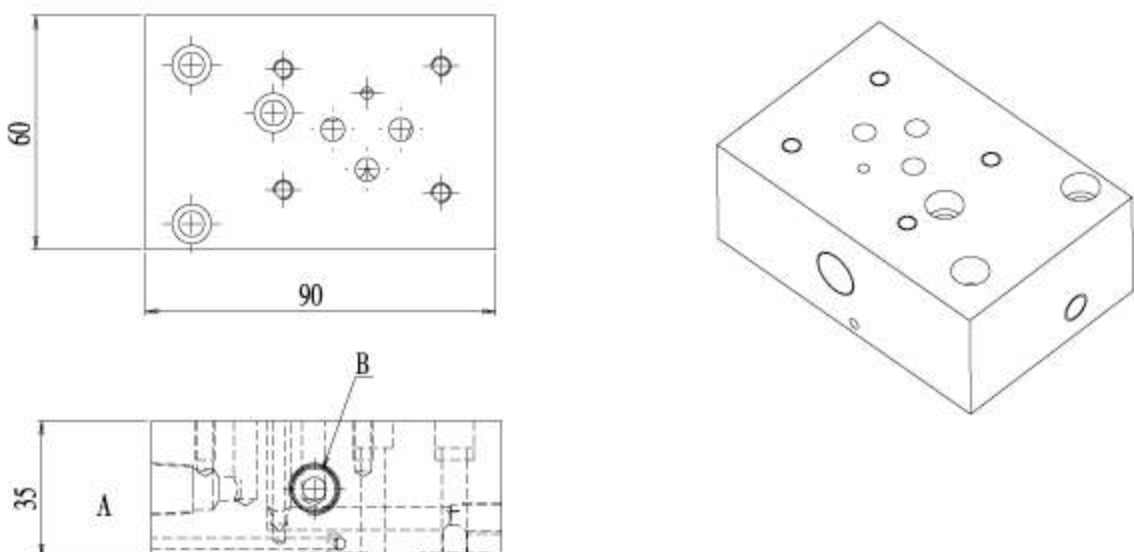
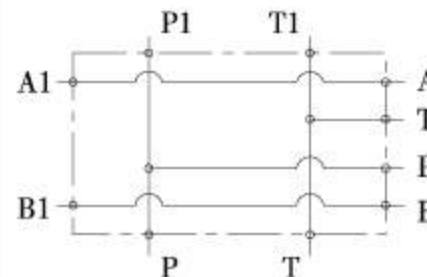
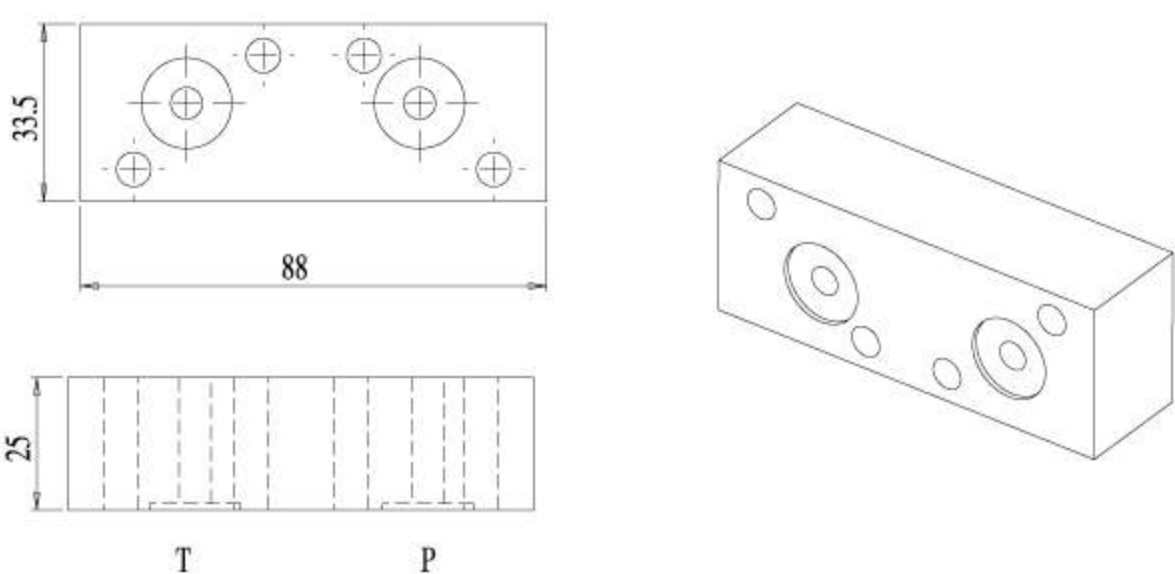
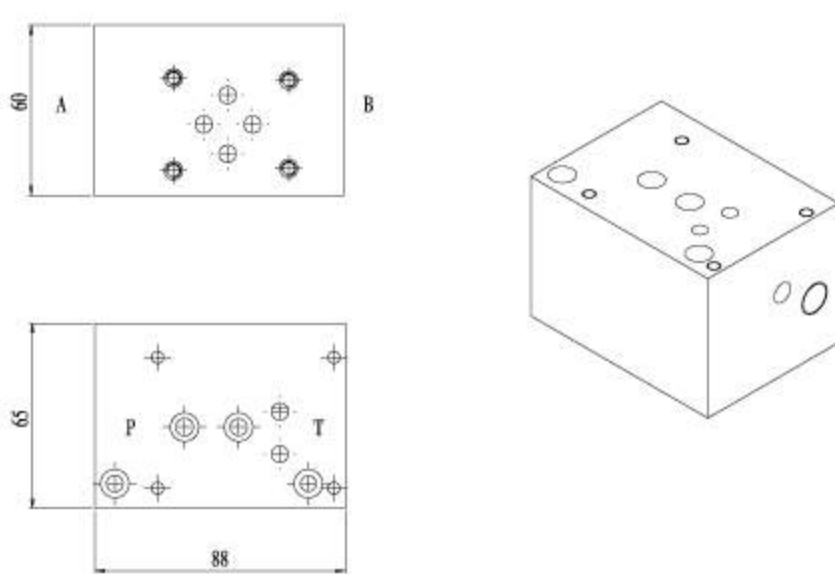
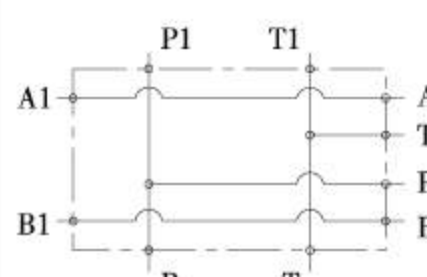
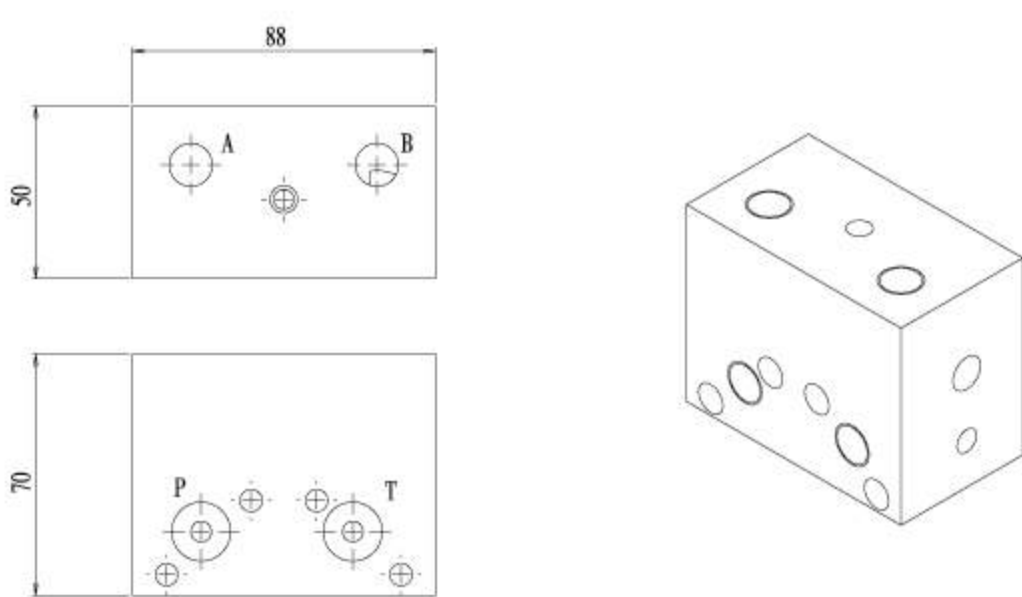
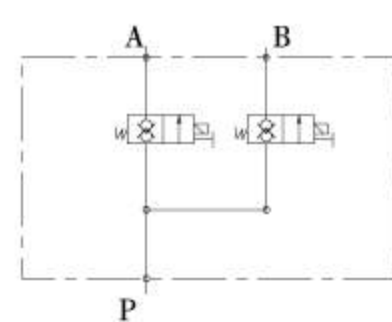
| 代号<br>Code | 外形尺寸<br>Size | 液压原理图<br>Diagram | 应用阀块类型<br>Compatibility<br>ceter manifold |
|------------|--------------|------------------|-------------------------------------------|
| MB16       |              |                  | CMC<br>CME                                |
| MB17       |              |                  | CMC                                       |
| MB18       |              |                  | CMC<br>CME                                |
| MB19       |              |                  | CMC<br>CME                                |
| MB20       |              |                  | CMC<br>CME                                |

# 标准过渡块系列

Standard modular elements serial

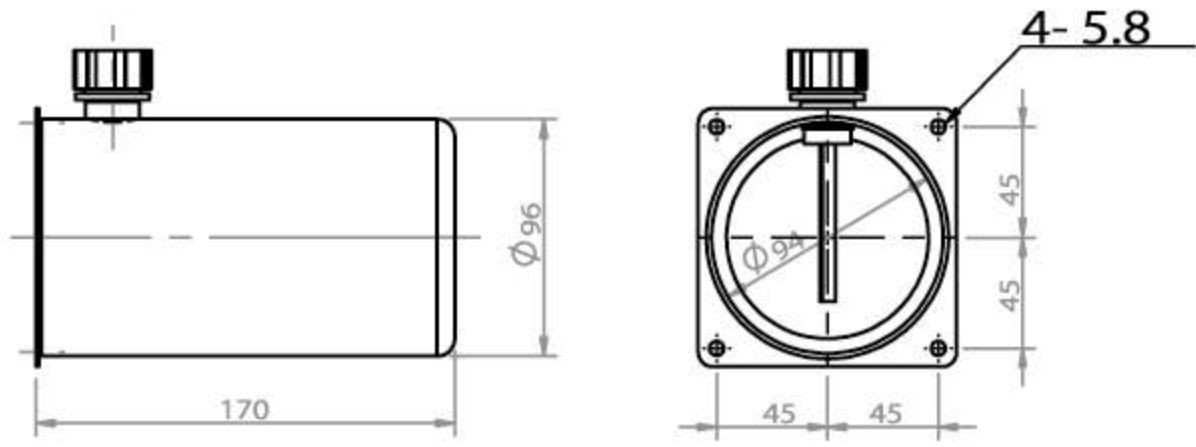
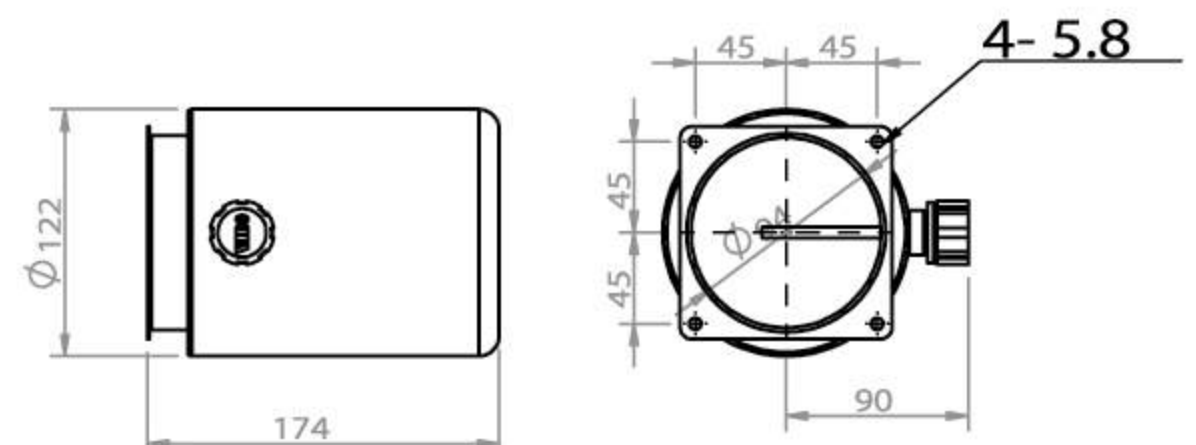
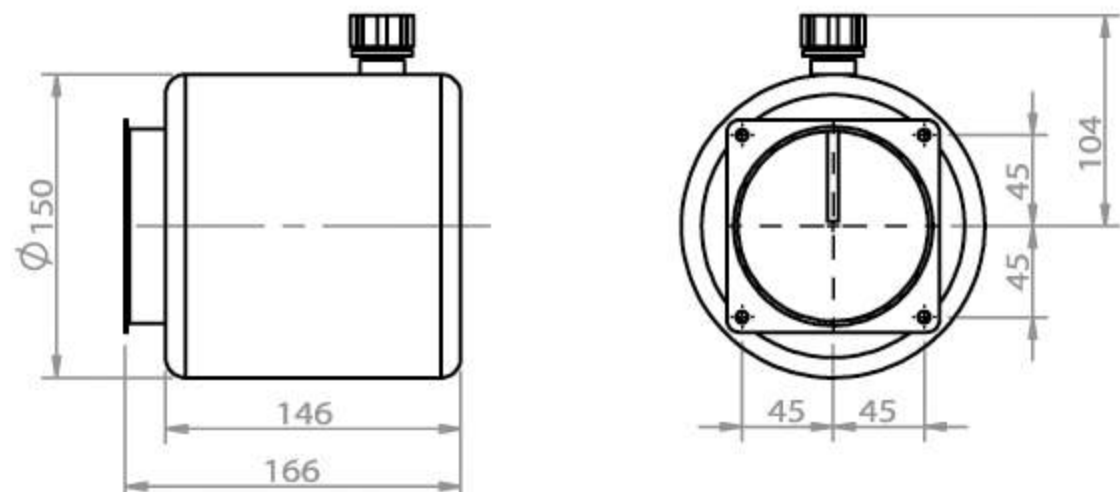
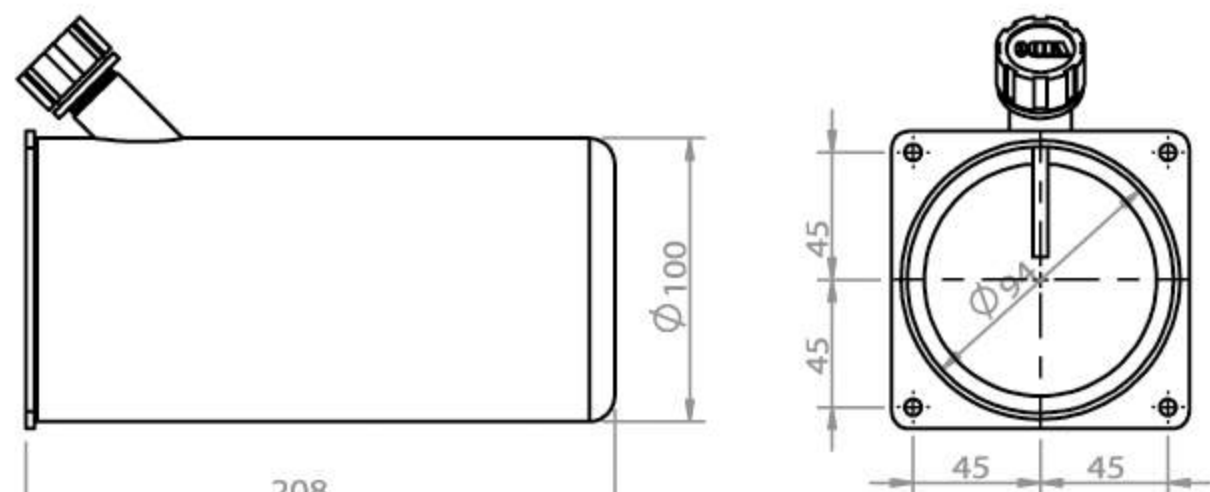
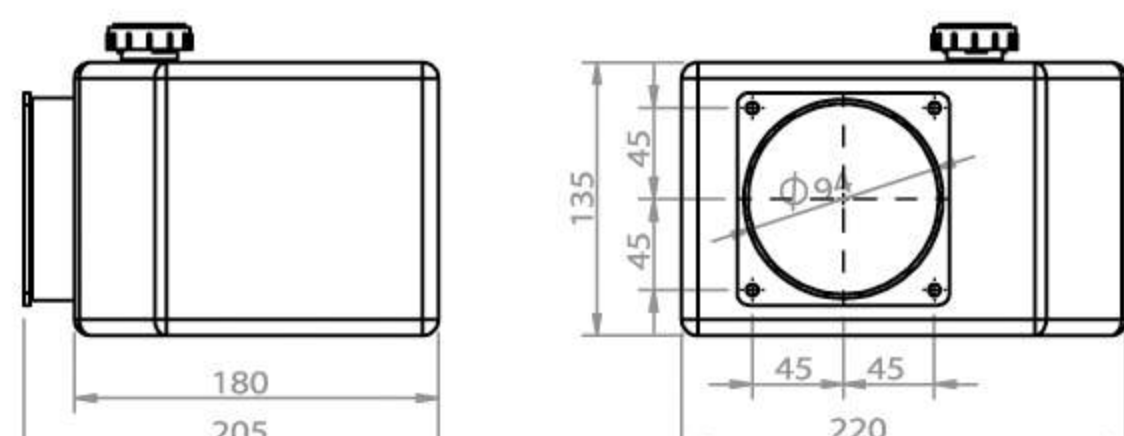
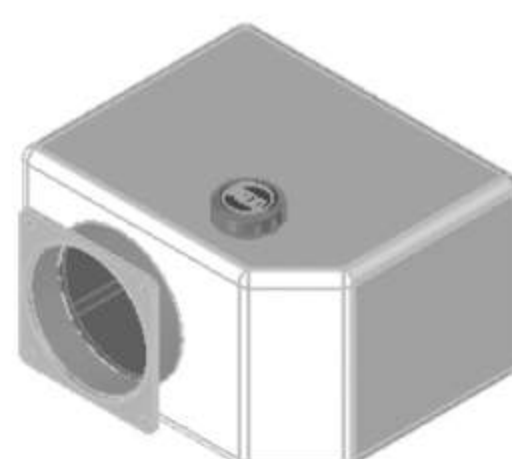
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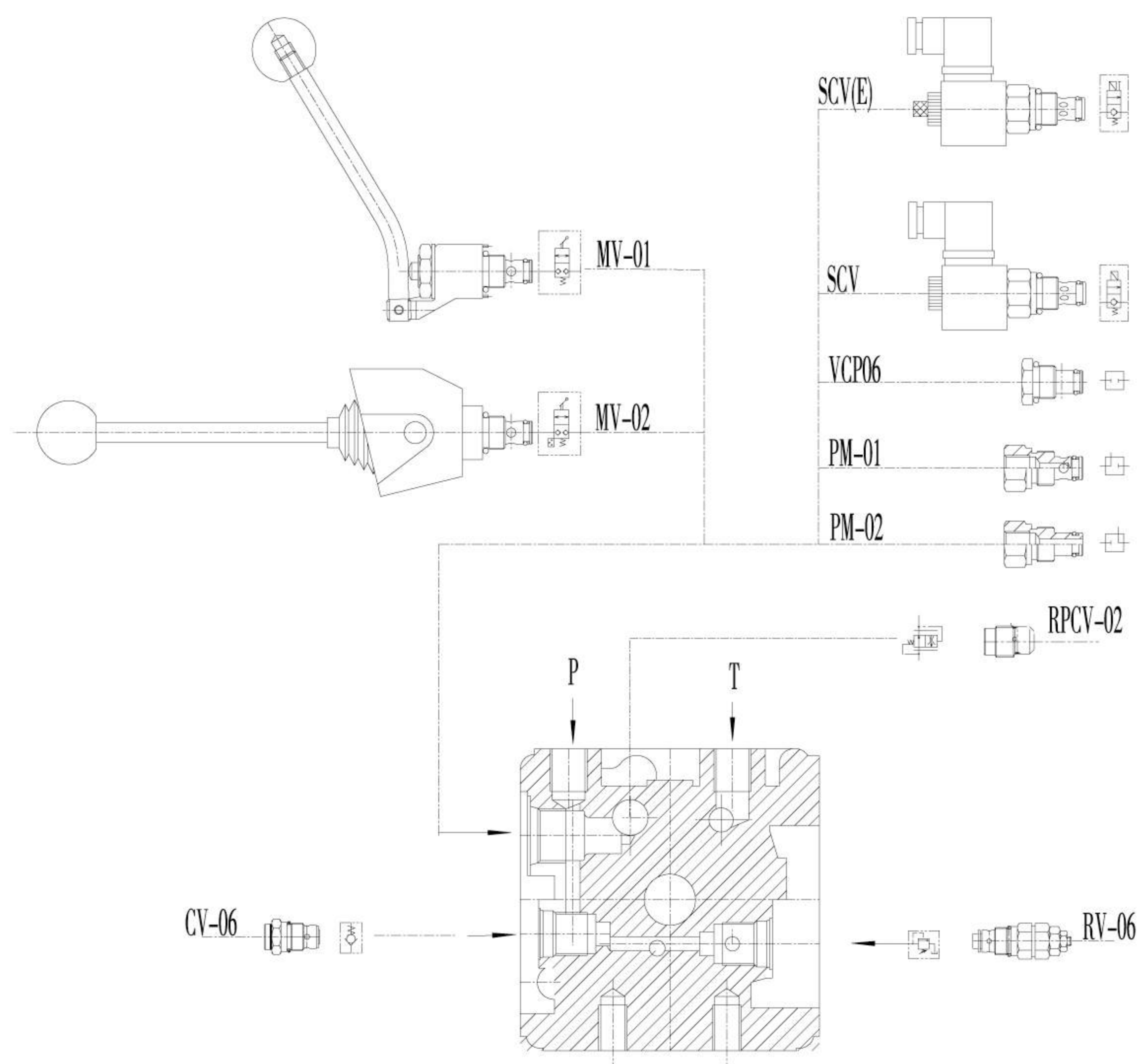
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|------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------|
| MB31       |    |    | CMD3                                      |
| MB40       |   |  | CMF                                       |
| MB41       |  |  | CMF                                       |
| MB42       |  |  | CMF                                       |

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| 油箱<br>Tank |              |           | VIBO  <br>ISO9001 |                                                                                       |
|------------|--------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 代号<br>Code | 长度<br>L (mm) | 容积<br>(L) | 外形尺寸<br>Size                                                                                                                                                                            |                                                                                       |
|            |              |           |                                                                                                       |    |
| TS094A210  | 210          | 1.2       |                                                                                                                                                                                         | 铁制油箱<br>Steel tank                                                                    |
| TS094A170  | 170          | 1         |                                                                                                                                                                                         |                                                                                       |
|            |              |           |                                                                                                      |   |
| TS094B174  | 174          | 1.7       |                                                                                                                                                                                         | 铁制油箱<br>Steel tank                                                                    |
|            |              |           |                                                                                                     |  |
| TS094C166  | 166          | 2.0       |                                                                                                                                                                                         | 铁制油箱<br>Steel tank                                                                    |
|            |              |           |                                                                                                     |  |
| TP094A208  | 208          | 1.2       |                                                                                                                                                                                         | 塑料油箱<br>Plastic tank                                                                  |
|            |              |           |                                                                                                     |  |
| TP094B205  | 205          | 3.5       |                                                                                                                                                                                         | 塑料油箱<br>Plastic tank                                                                  |

五、部件选配图 Cartaridge Valves Option

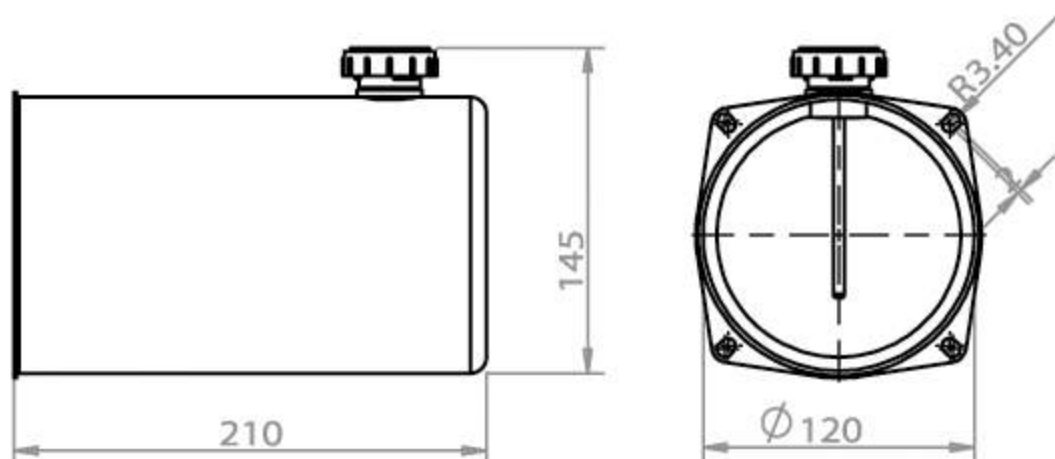
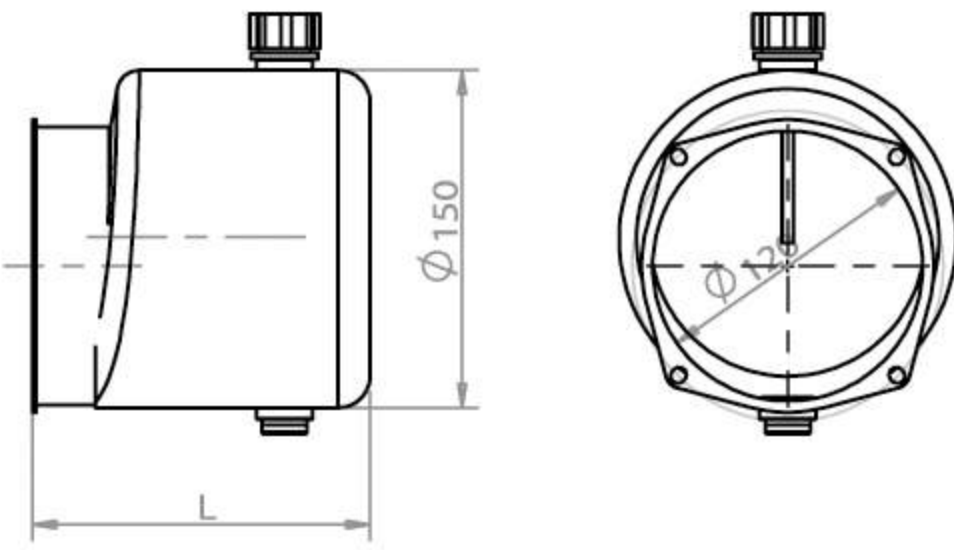
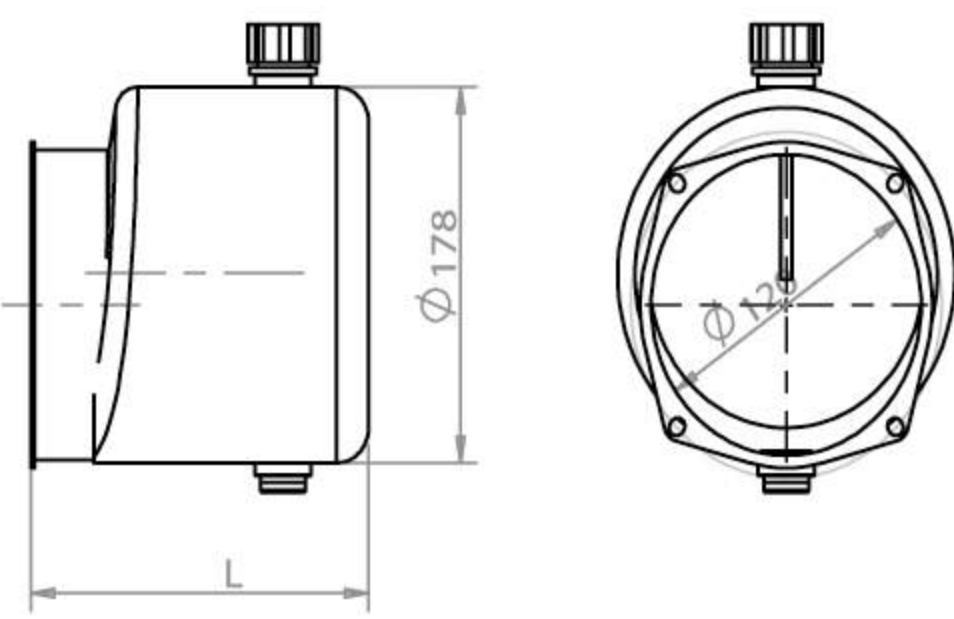
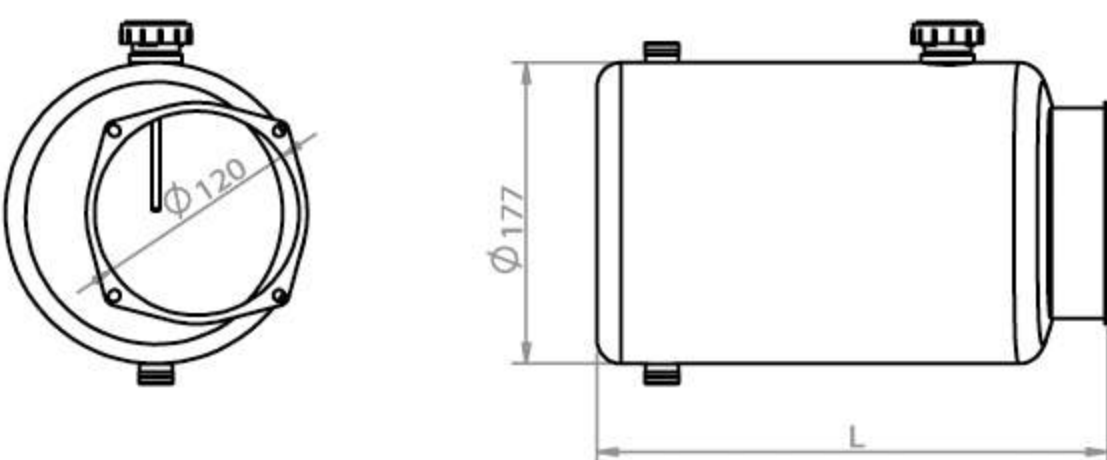


# 油箱

Tank

**VIBO**

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| 代号<br>Code | 长度<br>L (mm) | 容积<br>(L) | 外形尺寸<br>Size                                                                         |                                                                                                             |
|------------|--------------|-----------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|            |              |           |    | <br>铁制油箱<br>Steel tank   |
| TS120A210  | 210          | 2.0       |                                                                                      |                                                                                                             |
|            |              |           |  | <br>铁制油箱<br>Steel tank |
| TS120B270  | 270          | 4         |                                                                                      |                                                                                                             |
| TS120B215  | 215          | 2.8       |                                                                                      |                                                                                                             |
| TS120B152  | 152          | 1.7       |                                                                                      |                                                                                                             |
|            |              |           |  | <br>铁制油箱<br>Steel tank |
| TS120C610  | 610          | 14        |                                                                                      |                                                                                                             |
| TS120C545  | 545          | 12        |                                                                                      |                                                                                                             |
| TS120C440  | 440          | 10        |                                                                                      |                                                                                                             |
| TS120C370  | 370          | 8         |                                                                                      |                                                                                                             |
| TS120C290  | 290          | 6         |                                                                                      |                                                                                                             |
| TS120C270  | 270          | 5         |                                                                                      |                                                                                                             |
| TS120C225  | 225          | 4         |                                                                                      |                                                                                                             |
|            |              |           |  | <br>铁制油箱<br>Steel tank |
| TS120D300  | 300          | 6         |                                                                                      |                                                                                                             |
| TS120D270  | 270          | 5         |                                                                                      |                                                                                                             |

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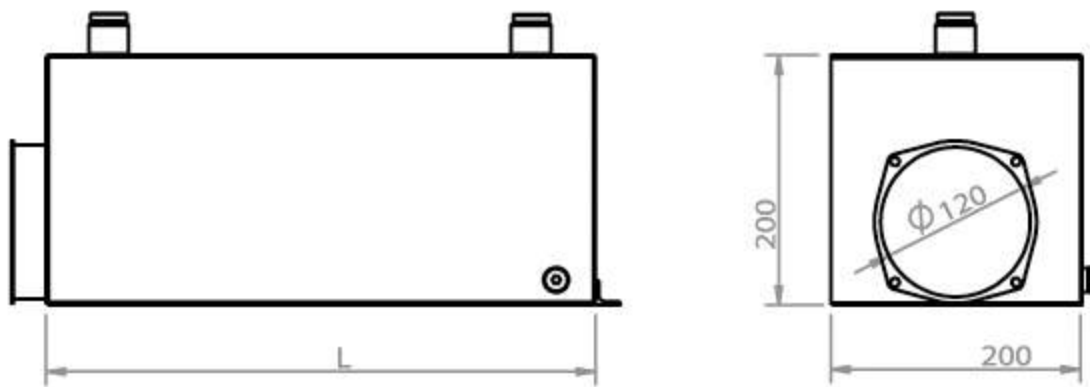
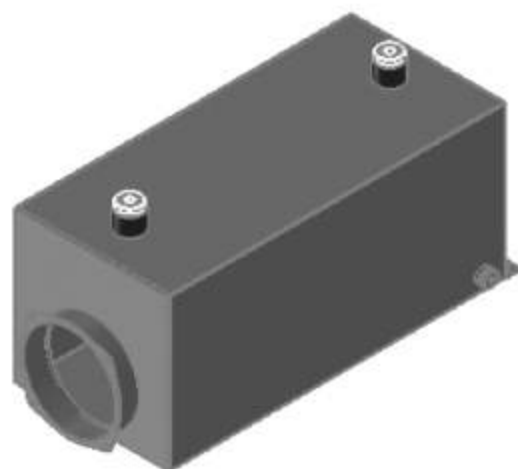
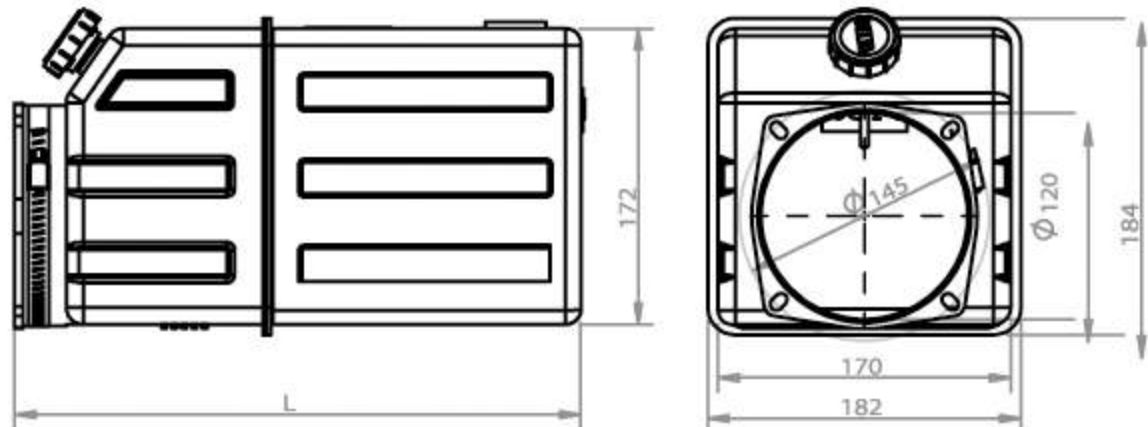
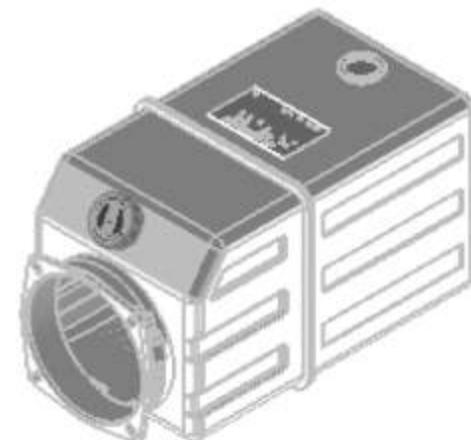
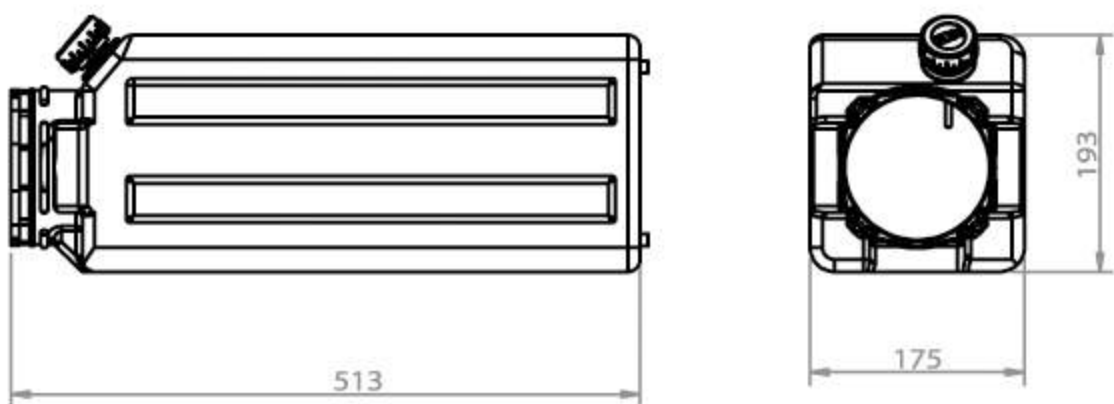
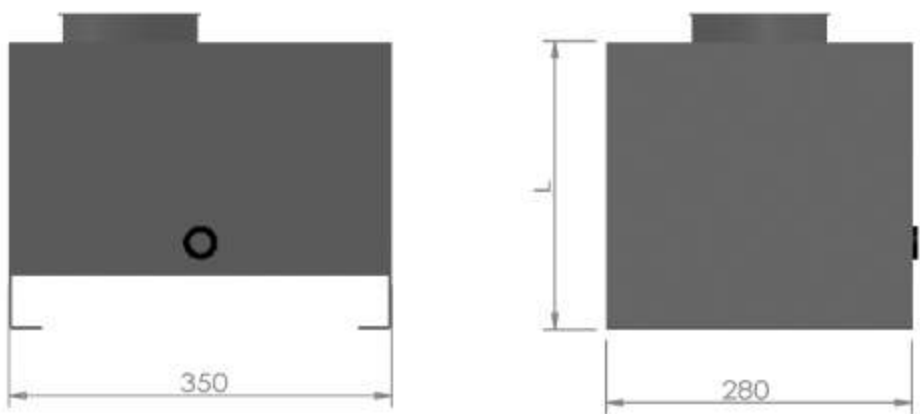
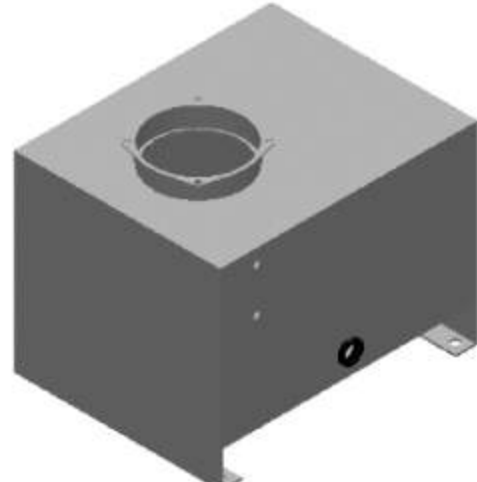
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# 油箱

Tank

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| 代号<br>Code | 长度<br>L (mm) | 容积<br>(L) | 外形尺寸<br>Size                                                                         |                                                                                                                    |
|------------|--------------|-----------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|            |              |           |    |  <p>铁制油箱<br/>Steel tank</p>     |
| TS120E560  | 560          | 5gal      |                                                                                      |                                                                                                                    |
| TS120E440  | 440          | 4gal      |                                                                                      |                                                                                                                    |
| TS120E330  | 330          | 3gal      |                                                                                      |                                                                                                                    |
|            |              |           |  |  <p>塑料油箱<br/>Plastic tank</p> |
| TP120A450  | 450          | 10        |                                                                                      |                                                                                                                    |
| TP120A330  | 330          | 8         |                                                                                      |                                                                                                                    |
| TP120A260  | 260          | 6         |                                                                                      |                                                                                                                    |
|            |              |           |  |  <p>塑料油箱<br/>Plastic tank</p> |
| TP120B513  | 513          | 12        |                                                                                      |                                                                                                                    |
|            |              |           |  |  <p>铁制油箱<br/>Steel tank</p>   |
| TS120F420  | 420          | 30        |                                                                                      |                                                                                                                    |
| TS120F290  | 290          | 20        |                                                                                      |                                                                                                                    |

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# 安装方式

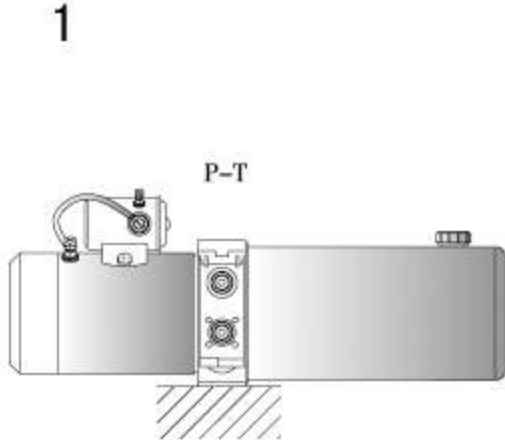
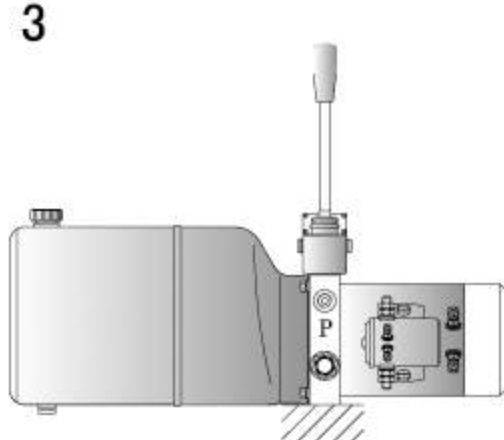
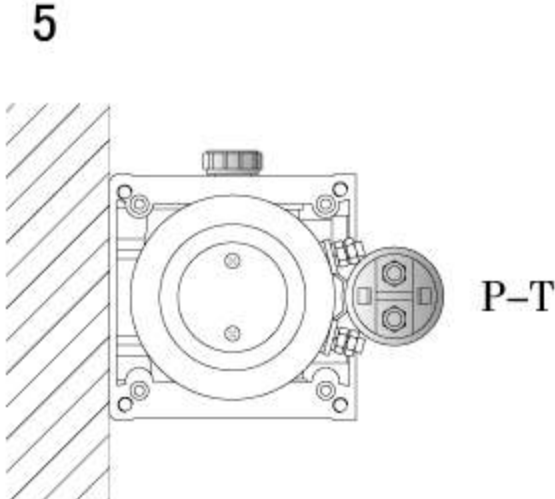
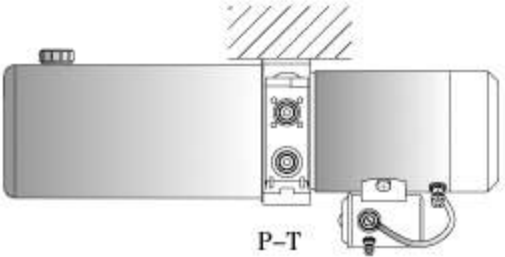
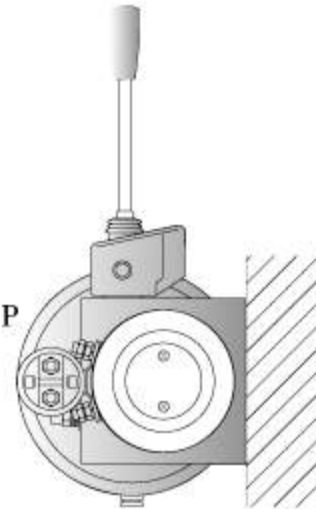
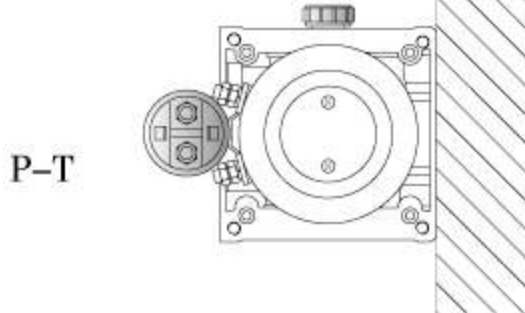
Mounting Type`

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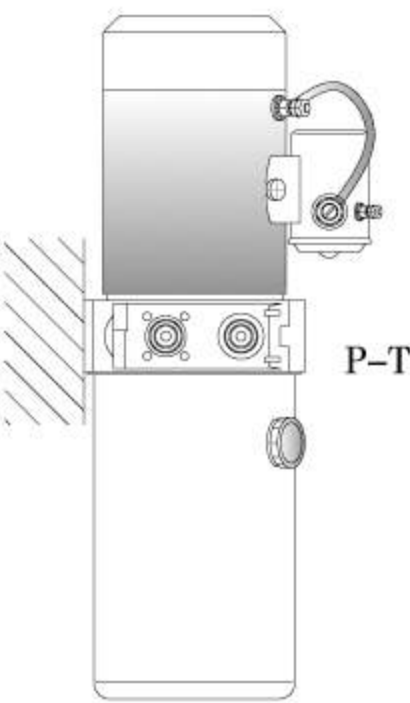
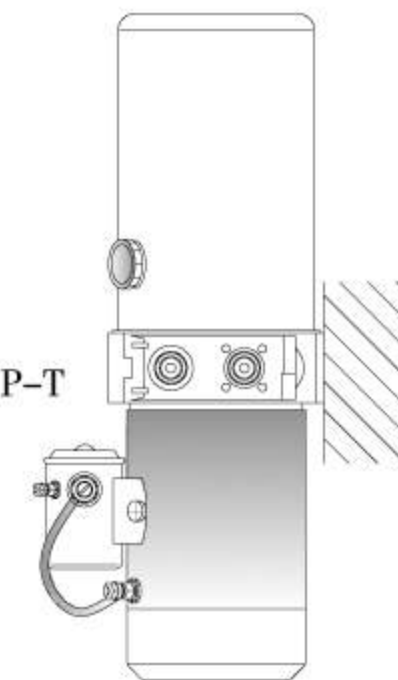
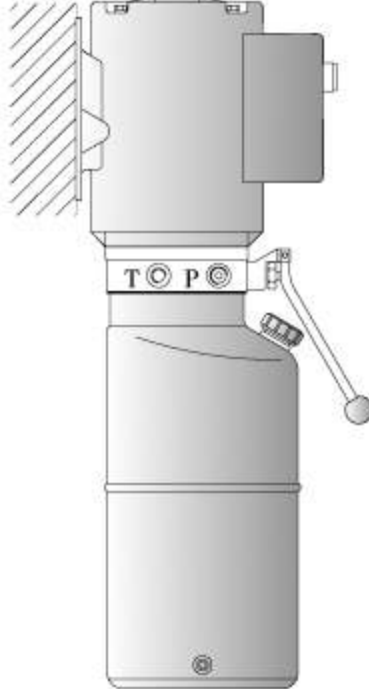
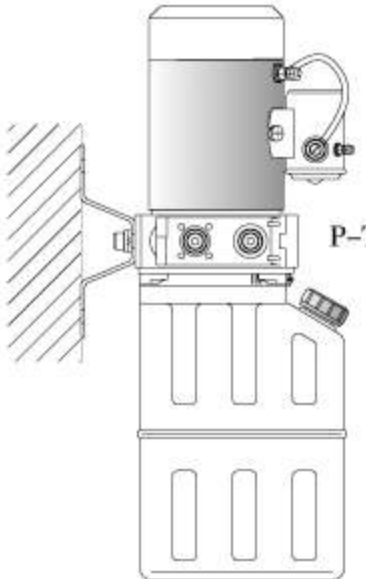
安装方式  
Mounting Type

卧式  
Horizontal

| 代号<br>Code | 图号<br>Image | 示意图<br>Sketch map                                                                    |                                                                                       |                                                                                       |  |
|------------|-------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| H1         | 1           |    |    |    |  |
| H2         | 2           |                                                                                      |                                                                                       |                                                                                       |  |
| H3         | 3           |                                                                                      |                                                                                       |                                                                                       |  |
| H4         | 4           |  |  |  |  |
| H5         | 5           |                                                                                      |                                                                                       |                                                                                       |  |
| H6         | 6           |                                                                                      |                                                                                       |                                                                                       |  |

安装方式  
Mounting Type

立式  
Vertical

| 代号<br>Code | 图号<br>Image  | 示意图<br>Sketch map                                                                    |                                                                                       |                                                                                       |                                                                                       |
|------------|--------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| V1         | 7            |  |  |  |  |
| V2         | 8            |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| V3         | 9            |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| V4         | 10           |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| V5         | 其它<br>Others |                                                                                      |                                                                                       |                                                                                       |                                                                                       |

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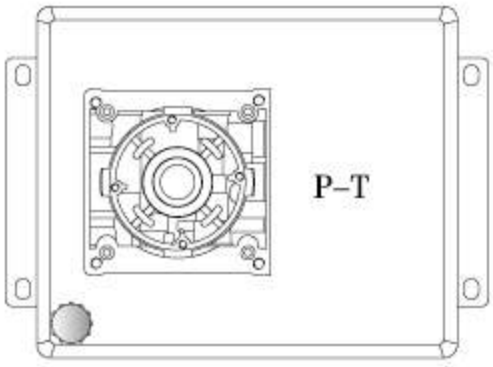
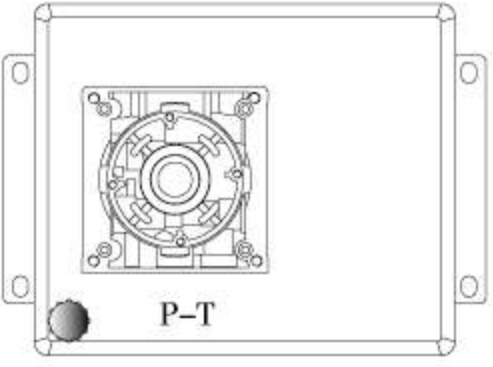
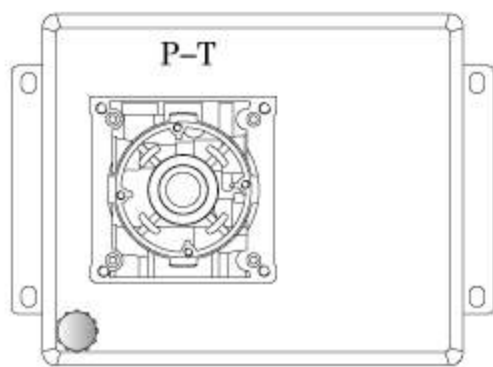
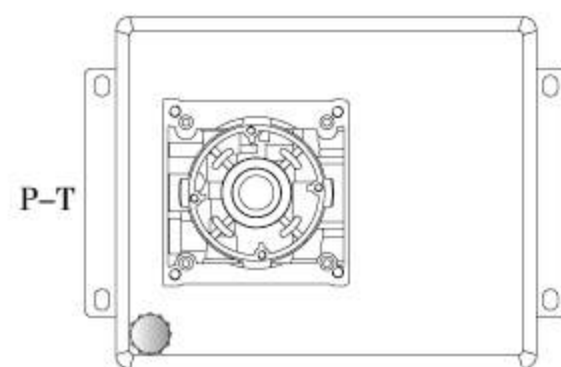
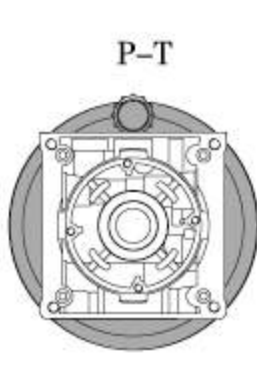
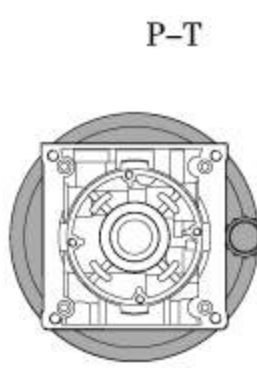
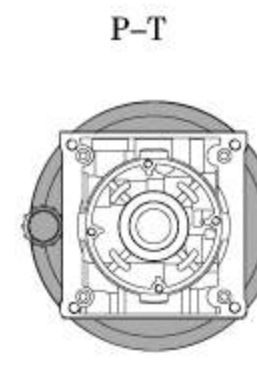
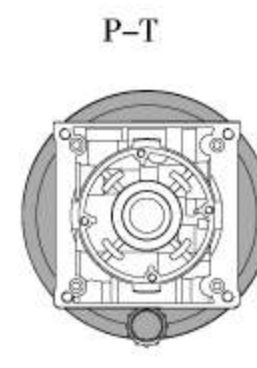
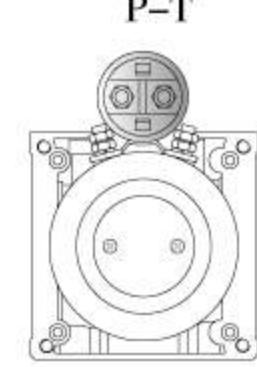
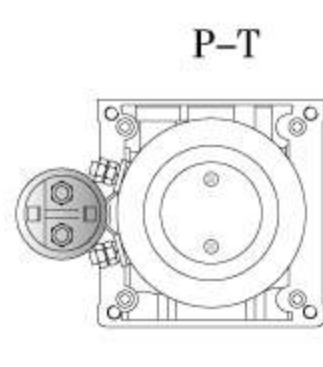
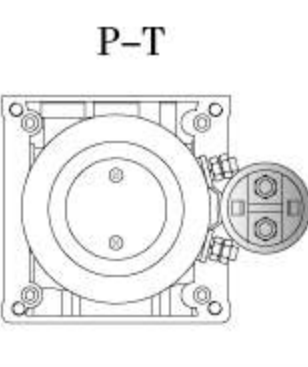
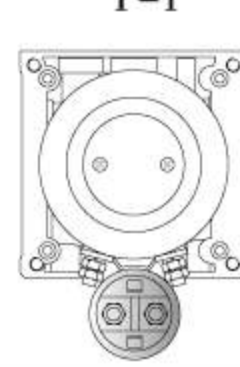
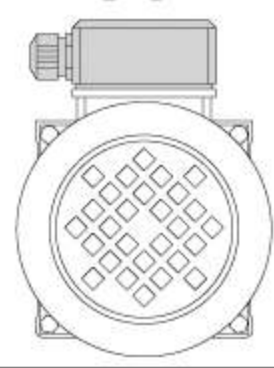
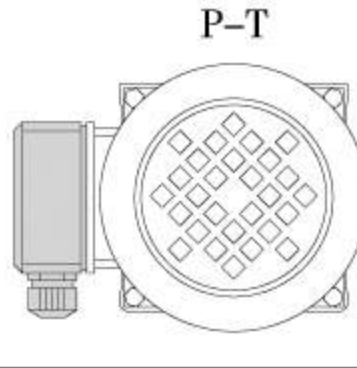
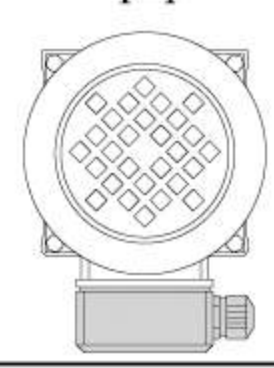
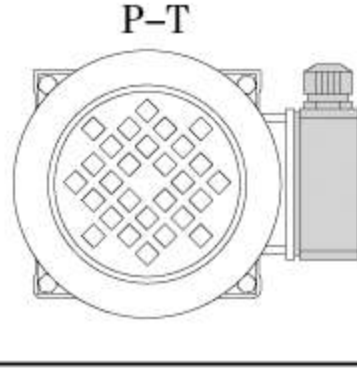
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# 特殊安装要求

Special mounting demand

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| 代号<br>Code | 图号<br>Image | 示意图<br>Sketch map                                                                       |                                                                                          |
|------------|-------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| A          | 1           | 1     | 2     |
| B          | 2           |                                                                                         |                                                                                          |
| C          | 3           | 3     | 4     |
| D          | 4           |                                                                                         |                                                                                          |
| E          | 5           | 5   | 6   |
| F          | 6           |                                                                                         |                                                                                          |
| G          | 7           | 7   | 8   |
| H          | 8           |                                                                                         |                                                                                          |
| I          | 9           | 9   | 10  |
| J          | 10          |                                                                                         |                                                                                          |
| K          | 11          | 11  | 12  |
| L          | 12          |                                                                                         |                                                                                          |
| M          | 13          | 13  | 14  |
| N          | 14          |                                                                                         |                                                                                          |
| O          | 15          | 15  | 16  |
| P          | 16          |                                                                                         |                                                                                          |

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# 插装阀孔螺堵

Cavity steel plug

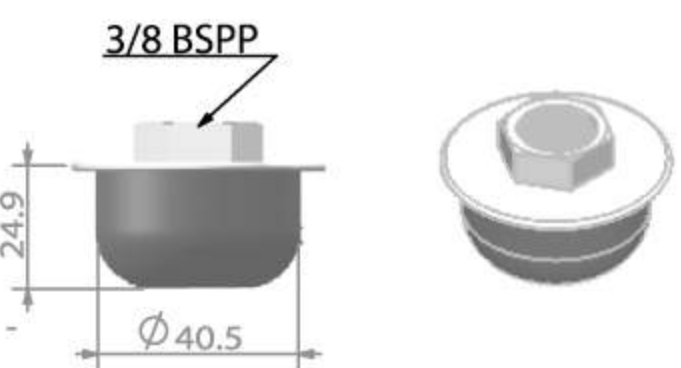
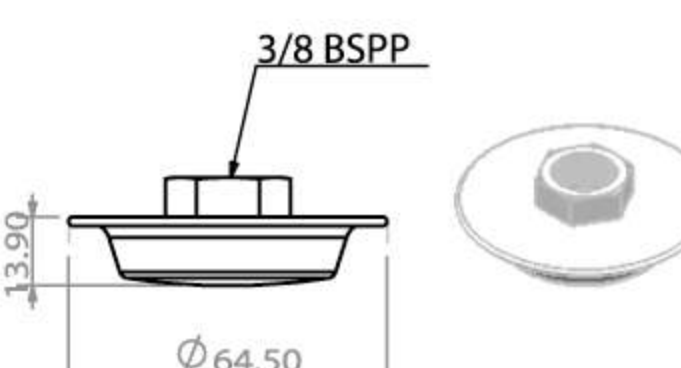
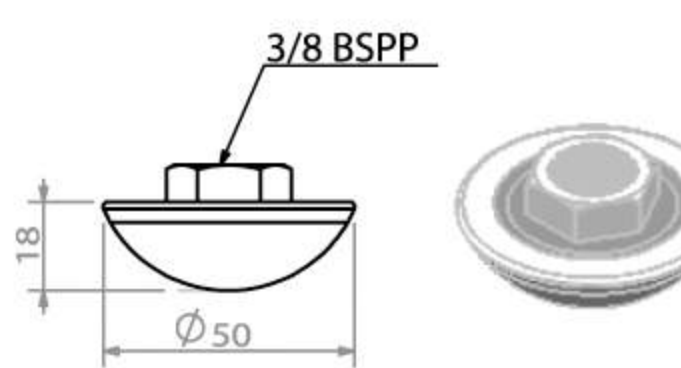
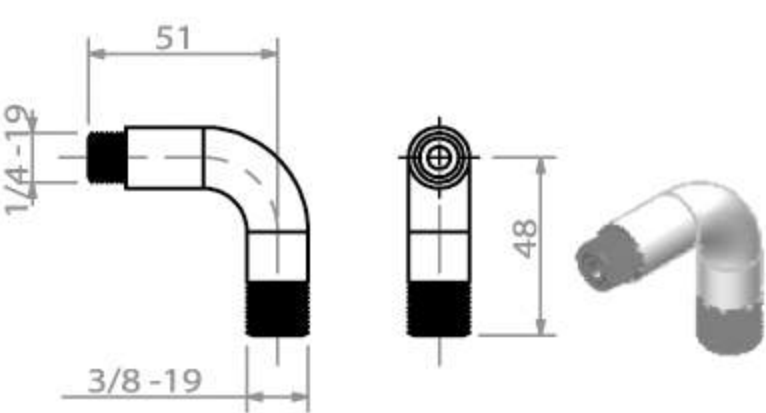
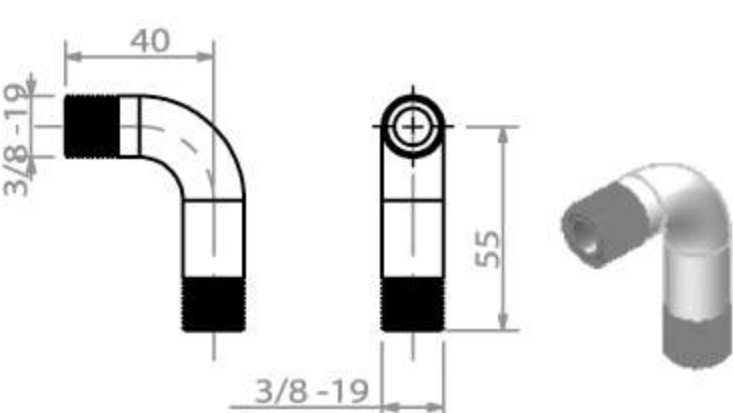
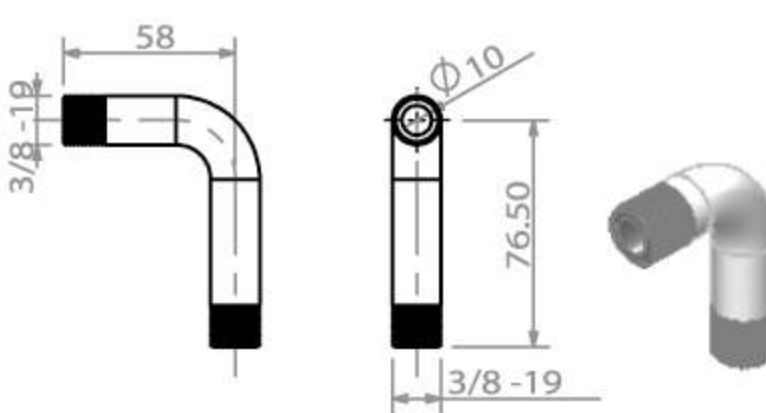
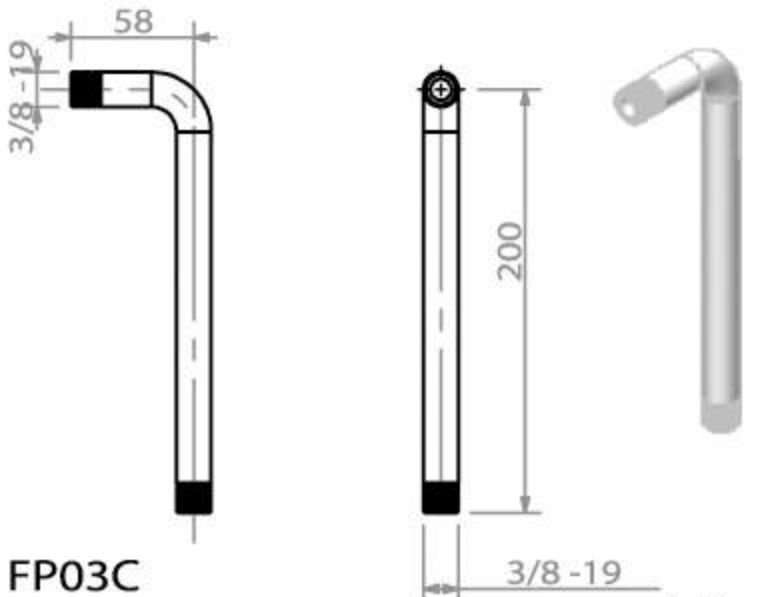
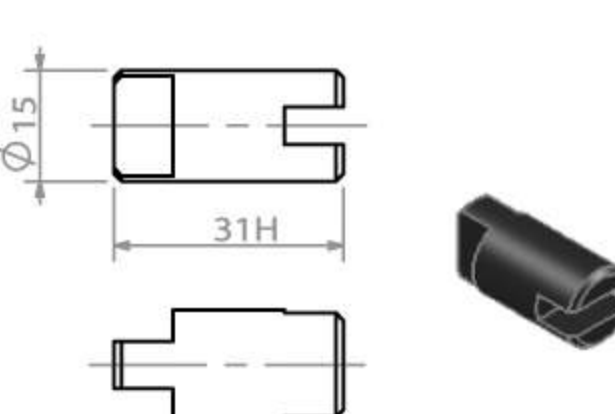
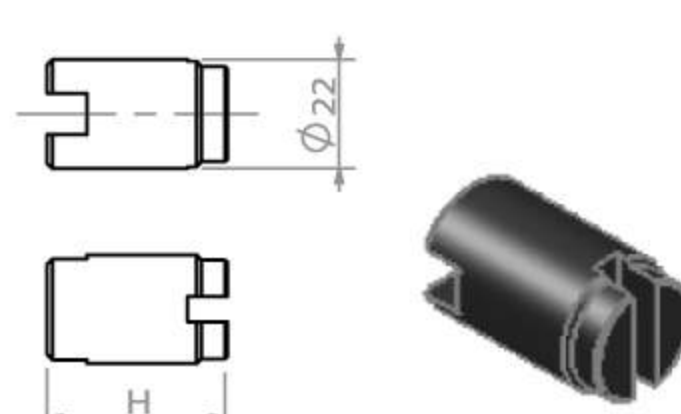
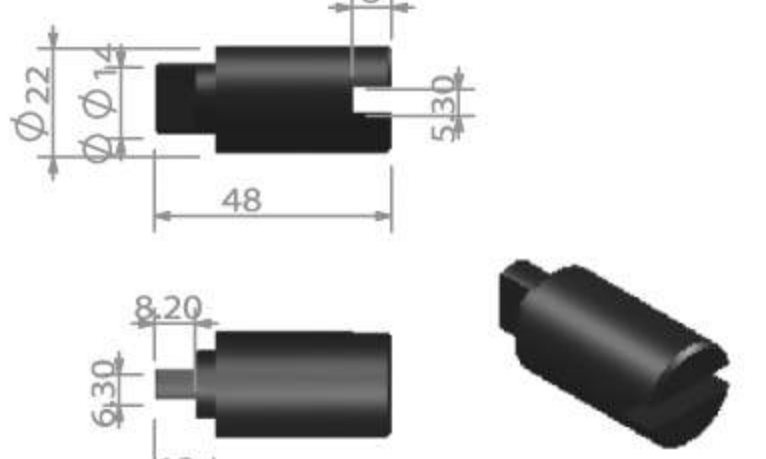
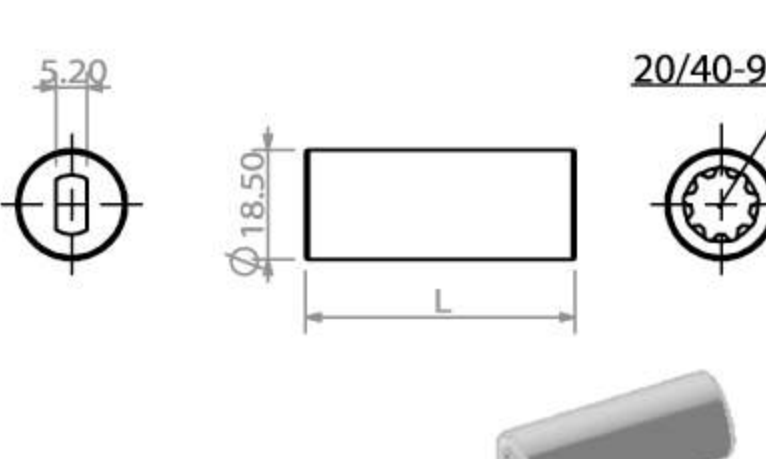
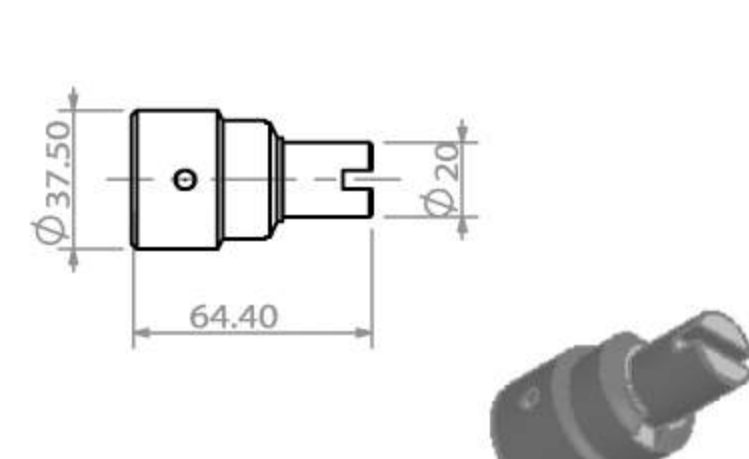


| 代号<br>Code | 外形尺寸<br>Size | 液压原理图<br>Diagram | 操作工具<br>tooling |
|------------|--------------|------------------|-----------------|
| VCP06      |              |                  |                 |
| PM-01      |              |                  |                 |
| PM-02      |              |                  |                 |
| PM-03      |              |                  |                 |
| RPV-03     |              |                  |                 |

# 液压配套附件1

Accessories for Power Unit



|                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                               |                                                                                                                                         |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------|----------|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------|----------------------------------|----------|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>FC06<br/>Breather Cap      3/4" 油箱盖</p>                                                                                                                                                                                       |  <p>FC04<br/>Breather Cap      1/2" 油箱盖</p>                                                                                                                                                                 |  <p>FC03<br/>Breather Cap      3/8" 油箱盖</p>          |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
|  <p>FS03C<br/>Suction filter      15L/MIN 滤网</p>                                                                                                                                                                                 |  <p>FS03B<br/>Suction filter      10L/MIN 滤网</p>                                                                                                                                                           |  <p>FS03A<br/>Suction filter      5L/MIN 滤网</p>     |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
|  <p>FP02<br/>Suction angle pipe      1/4" 吸油管</p>                                                                                                                                                                               |  <p>FP03A<br/>Suction angle pipe      3/4" 吸油管</p>                                                                                                                                                        |  <p>FP03B<br/>Suction angle pipe      3/8" 吸油管</p> |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
|  <p>FP03C<br/>Suction angle pipe      3/8 吸油管</p>                                                                                                                                                                               |  <table border="1"> <tr> <td>DCP-315A</td> <td>31.5</td> <td rowspan="3">CMA用联轴器<br/>Connector for CMA</td> </tr> <tr> <td>ACP-195A</td> <td>19.5</td> </tr> <tr> <td>Code</td> <td>H</td> </tr> </table> | DCP-315A                                                                                                                                | 31.5                                       | CMA用联轴器<br>Connector for CMA | ACP-195A | 19.5 | Code | H                                                                                                                                                                                                                                                                                               |  <table border="1"> <tr> <td>ACP-365C</td> <td>36.5</td> <td rowspan="3">AC 90度联轴器<br/>Connector for AC 90</td> </tr> <tr> <td>ACP-027C</td> <td>27</td> </tr> <tr> <td>Code</td> <td>H</td> </tr> </table> | ACP-365C | 36.5                               | AC 90度联轴器<br>Connector for AC 90 | ACP-027C | 27   | Code | H                                                                                                                                                            |
| DCP-315A                                                                                                                                                                                                                                                                                                           | 31.5                                                                                                                                                                                                                                                                                          | CMA用联轴器<br>Connector for CMA                                                                                                            |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
| ACP-195A                                                                                                                                                                                                                                                                                                           | 19.5                                                                                                                                                                                                                                                                                          |                                                                                                                                         |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
| Code                                                                                                                                                                                                                                                                                                               | H                                                                                                                                                                                                                                                                                             |                                                                                                                                         |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
| ACP-365C                                                                                                                                                                                                                                                                                                           | 36.5                                                                                                                                                                                                                                                                                          | AC 90度联轴器<br>Connector for AC 90                                                                                                        |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
| ACP-027C                                                                                                                                                                                                                                                                                                           | 27                                                                                                                                                                                                                                                                                            |                                                                                                                                         |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
| Code                                                                                                                                                                                                                                                                                                               | H                                                                                                                                                                                                                                                                                             |                                                                                                                                         |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
|  <table border="1"> <tr> <td>DCP-035B</td> <td>35</td> <td rowspan="3">4.5" DC电机联轴器<br/>Connector for 4.5 DC motor</td> </tr> <tr> <td>DCP-048C</td> <td>48</td> </tr> <tr> <td>Code</td> <td>H</td> </tr> </table> | DCP-035B                                                                                                                                                                                                                                                                                      | 35                                                                                                                                      | 4.5" DC电机联轴器<br>Connector for 4.5 DC motor | DCP-048C                     | 48       | Code | H    |  <table border="1"> <tr> <td>MCP-045B</td> <td>45</td> <td rowspan="3">YL电机用联轴器<br/>Connector for YL motor</td> </tr> <tr> <td>MCP-055C</td> <td>55</td> </tr> <tr> <td>Code</td> <td>L</td> </tr> </table> | MCP-045B                                                                                                                                                                                                                                                                                         | 45       | YL电机用联轴器<br>Connector for YL motor | MCP-055C                         | 55       | Code | L    |  <p>ACP-645 C      90 B14 AC电机联轴器<br/>Connector for 90 B14 AC motor</p> |
| DCP-035B                                                                                                                                                                                                                                                                                                           | 35                                                                                                                                                                                                                                                                                            | 4.5" DC电机联轴器<br>Connector for 4.5 DC motor                                                                                              |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
| DCP-048C                                                                                                                                                                                                                                                                                                           | 48                                                                                                                                                                                                                                                                                            |                                                                                                                                         |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
| Code                                                                                                                                                                                                                                                                                                               | H                                                                                                                                                                                                                                                                                             |                                                                                                                                         |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
| MCP-045B                                                                                                                                                                                                                                                                                                           | 45                                                                                                                                                                                                                                                                                            | YL电机用联轴器<br>Connector for YL motor                                                                                                      |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
| MCP-055C                                                                                                                                                                                                                                                                                                           | 55                                                                                                                                                                                                                                                                                            |                                                                                                                                         |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |
| Code                                                                                                                                                                                                                                                                                                               | L                                                                                                                                                                                                                                                                                             |                                                                                                                                         |                                            |                              |          |      |      |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |          |                                    |                                  |          |      |      |                                                                                                                                                              |

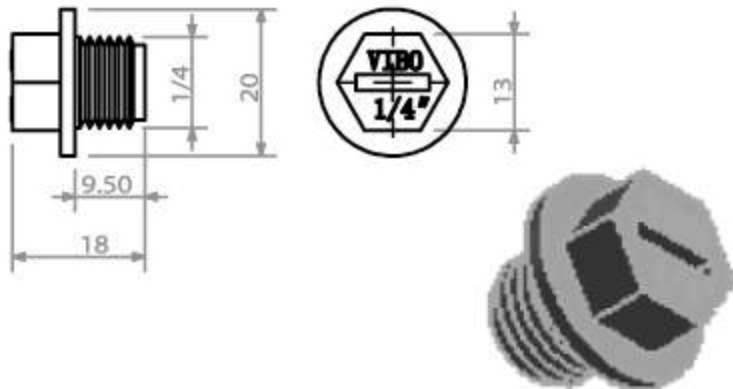
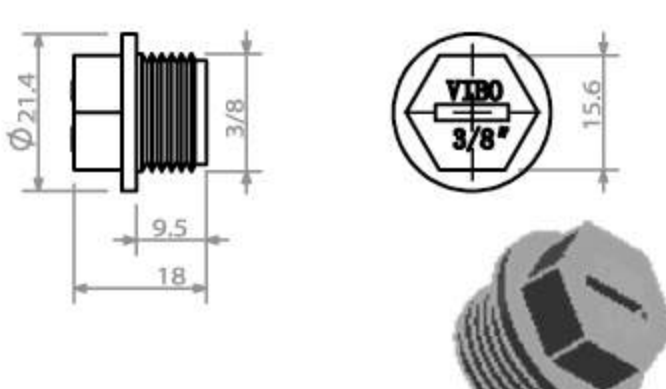
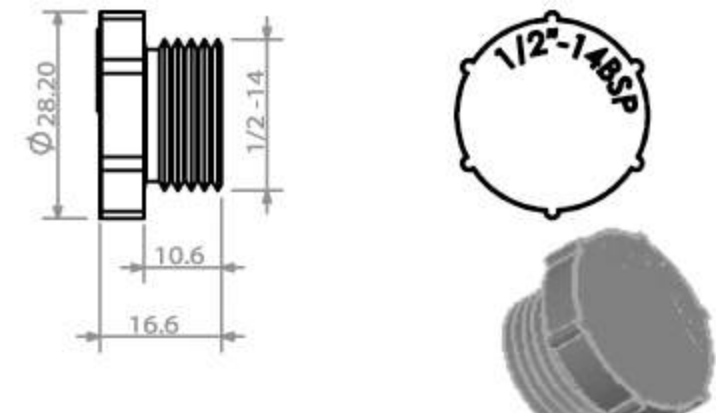
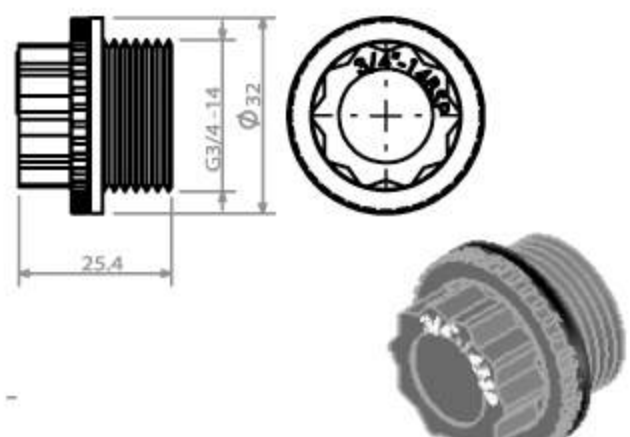
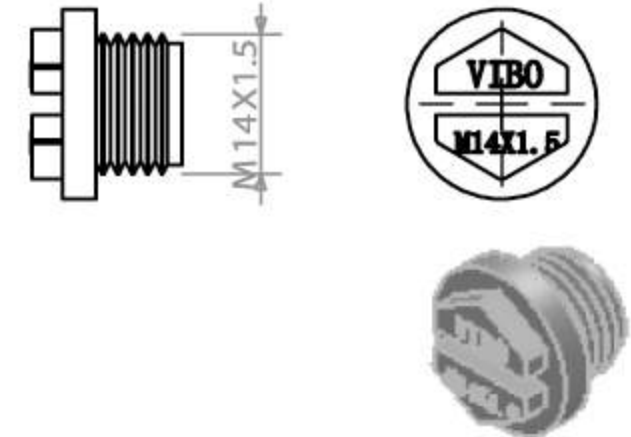
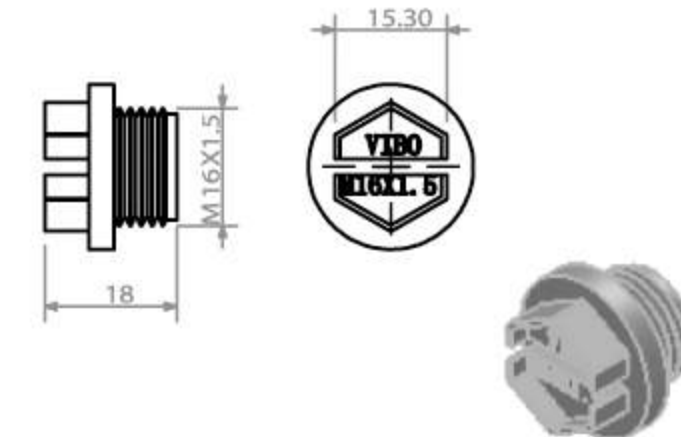
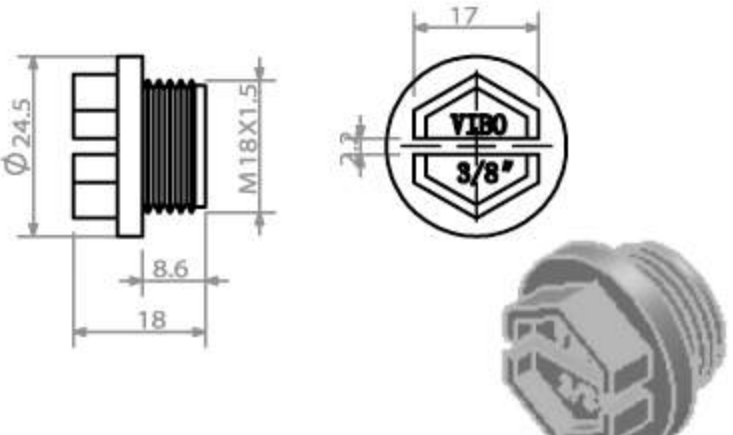
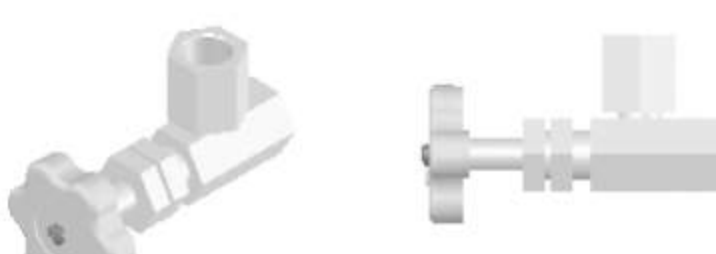
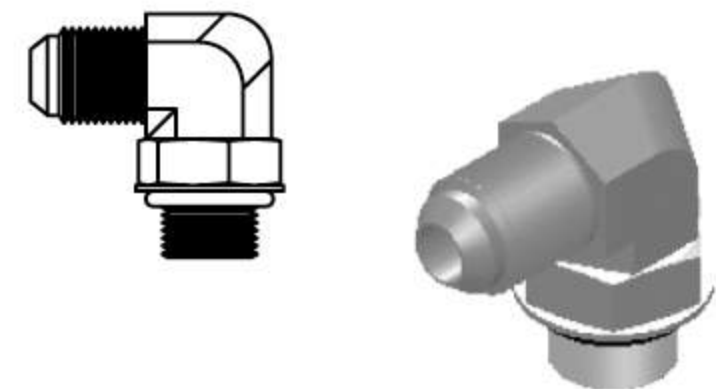
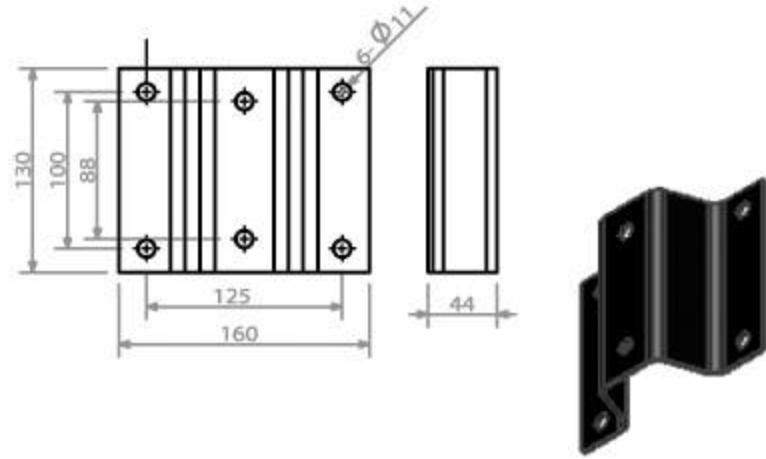
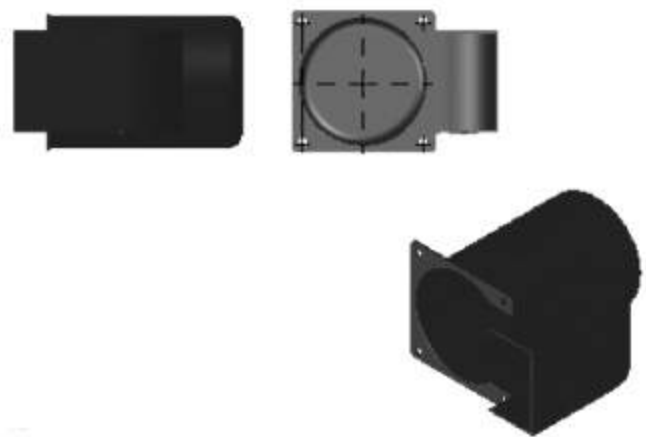
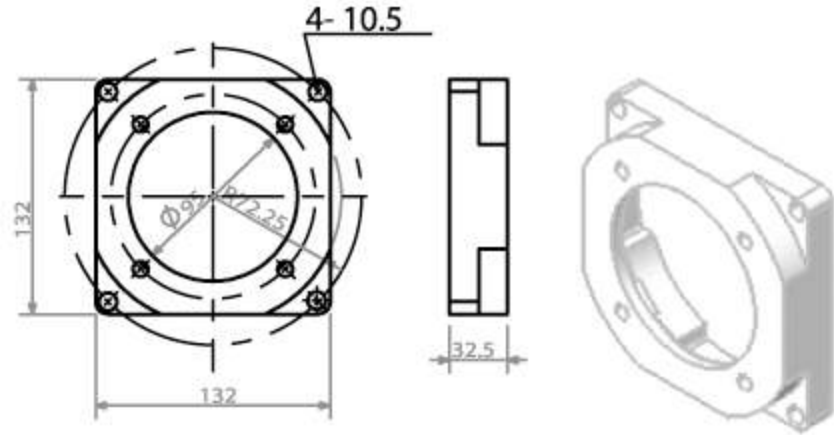
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## 液压配套附件2

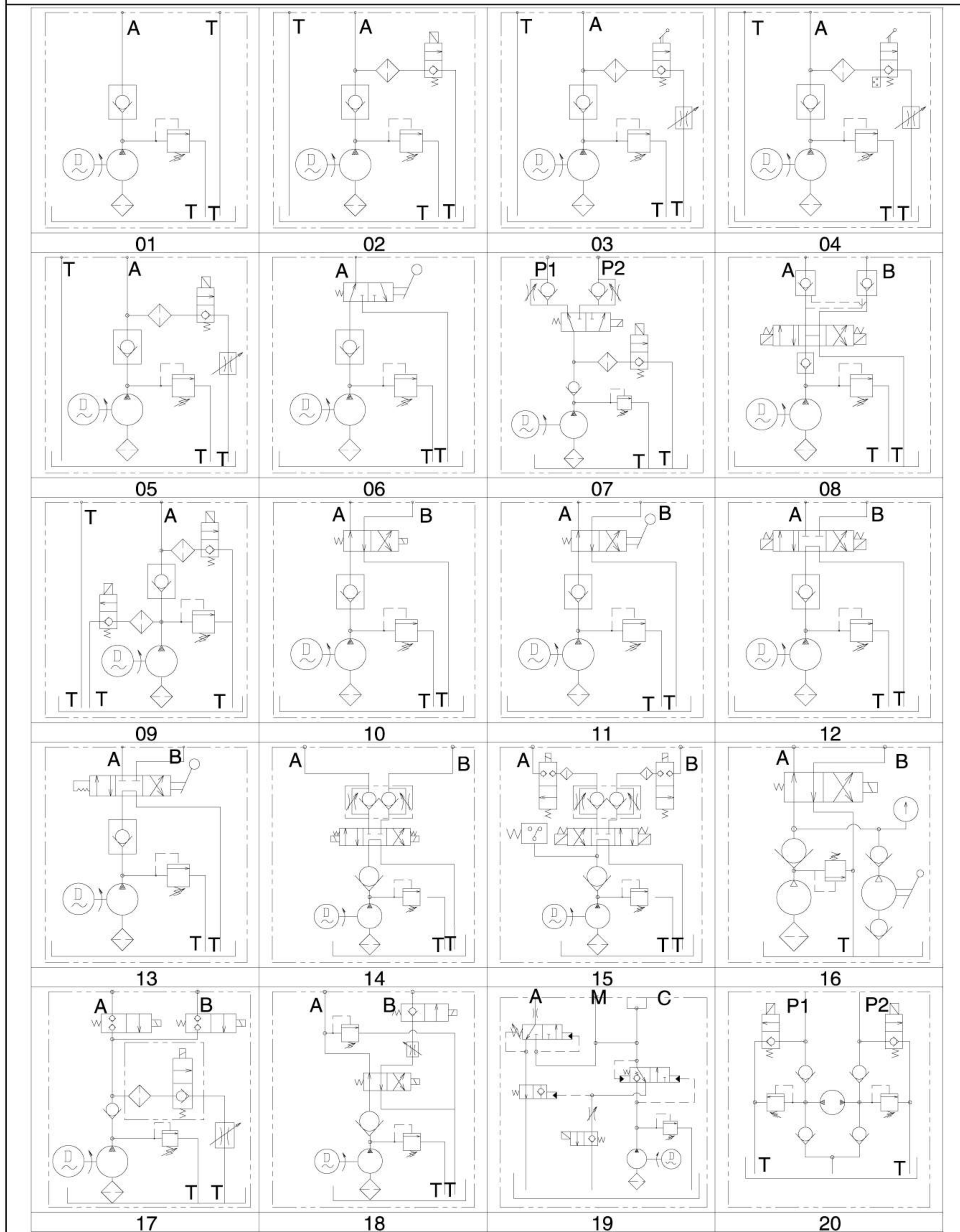
Accessories for Power Unit



|                                                                                                                                  |                                                                                                                                               |                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|  <p>PVP02<br/>Plastic Valve plug 1/4" 塑料螺塞</p>  |  <p>PVP03<br/>Plastic Valve plug 3/8" 塑料螺塞</p>              |  <p>PVP04<br/>Plastic Valve plug 1/2" 塑料螺塞</p>      |
|  <p>PVP06<br/>Plastic Valve plug 3/4" 塑料螺塞</p> |  <p>PVP14<br/>Plastic Valve plug M14 塑料螺塞</p>              |  <p>PVP16<br/>Plastic Valve plug M16 塑料螺塞</p>      |
|  <p>PVP18<br/>Plastic Valve plug M18 塑料螺塞</p> |  <p>TCFP<br/>Test compling for pressure checking 测压结头</p> |  <p>FMS<br/>Manometer switch 压力表开关</p>            |
|  <p>BV02<br/>Two way ball valve 两通球阀</p>      |  <p>BV03<br/>Three way ball valve 三通球阀</p>                |  <p>FVC<br/>Universal coupling 万向管接头</p>          |
|  <p>FM82<br/>Mouating bracket 安装底坐</p>        |  <p>PCDM<br/>Plastic cover for DC motor 电机护罩</p>          |  <p>FMC90<br/>90 Frame motor connector 90电机接盘</p> |

# 液压原理图

Hydraulic Circuit Optional

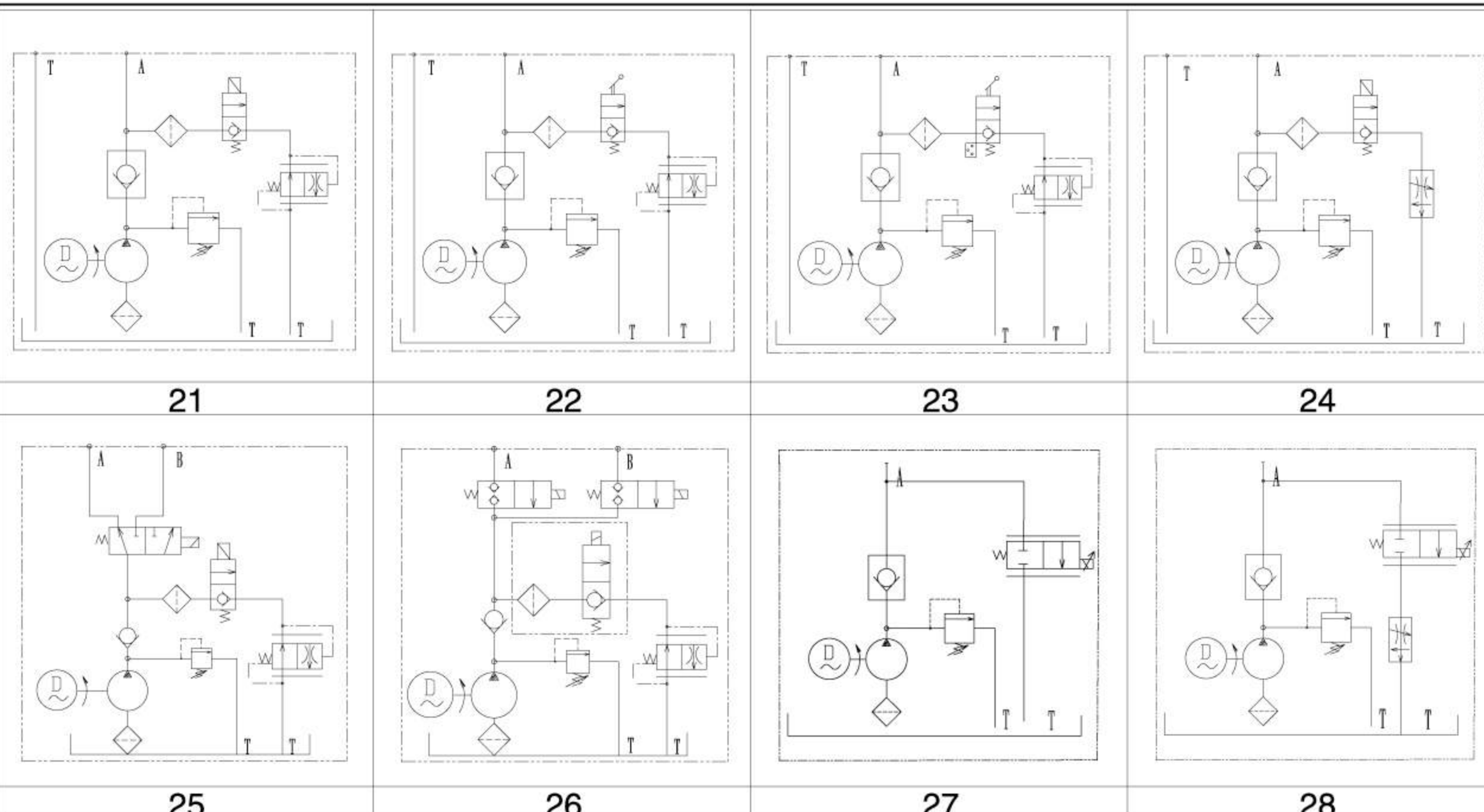


# 液压原理图

Hydraulic Circuit Optional

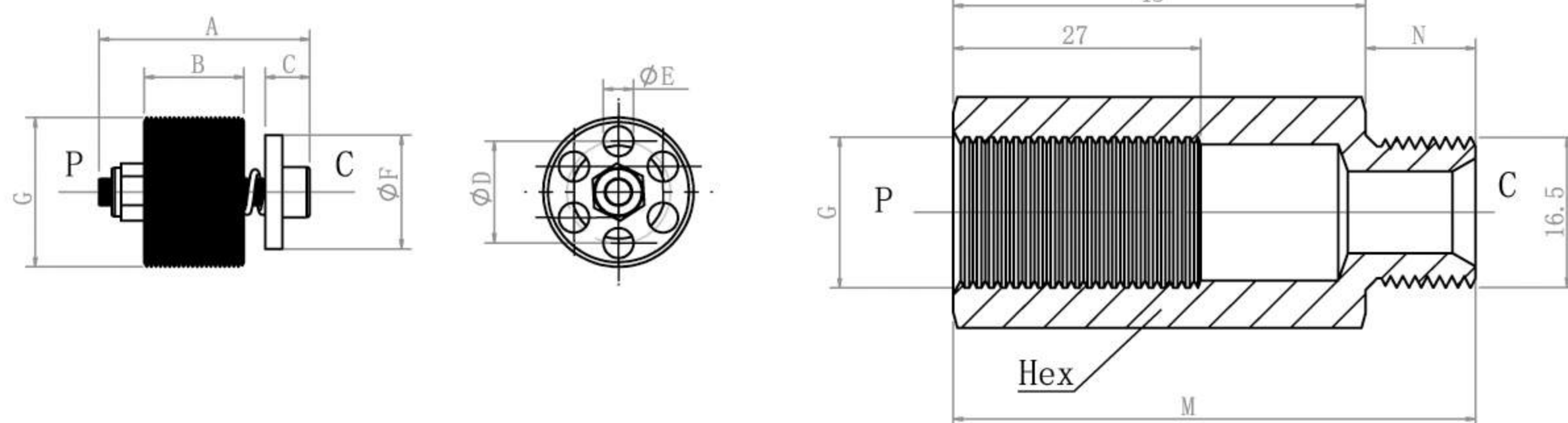
**VIBO**

CE  
ISO9001



## 防爆阀

Load holding valves



| TYPE  | A  | B    | C   | D    | E    | F    | G       | H         | I  | L  | M  | N  | O  | Hex | Hex1 | Hex2 |
|-------|----|------|-----|------|------|------|---------|-----------|----|----|----|----|----|-----|------|------|
| LHV02 | 19 | 10   | 4.5 | 8.5  | 2.25 | 9.5  | G1/4"   | See Graph | 24 | 34 | 49 | 12 | 6  | 19  | 2.5  | 5.5  |
| LHV03 | 23 | 10.5 | 5   | 10.5 | 3.5  | 12.5 | G3/8"   |           | 27 | 42 | 49 | 12 | 6  | 22  | 2.5  | 5.5  |
| LHV04 | 29 | 13   | 6   | 13   | 4.5  | 15   | G1/2"   |           | 34 | 50 | 68 | 14 | 12 | 27  | 3    | 9    |
| LHV15 | 19 | 10   | 4.5 | 8.5  | 2.25 | 9.5  | M14×1.5 |           | 24 | 34 | 49 | 12 | 6  | 19  | 2.5  | 5.5  |
| LHV16 | 23 | 10.5 | 5   | 10.5 | 3.5  | 12.5 | M16×1.5 |           | 27 | 42 | 57 | 12 | 6  | 22  | 2.5  | 5.5  |

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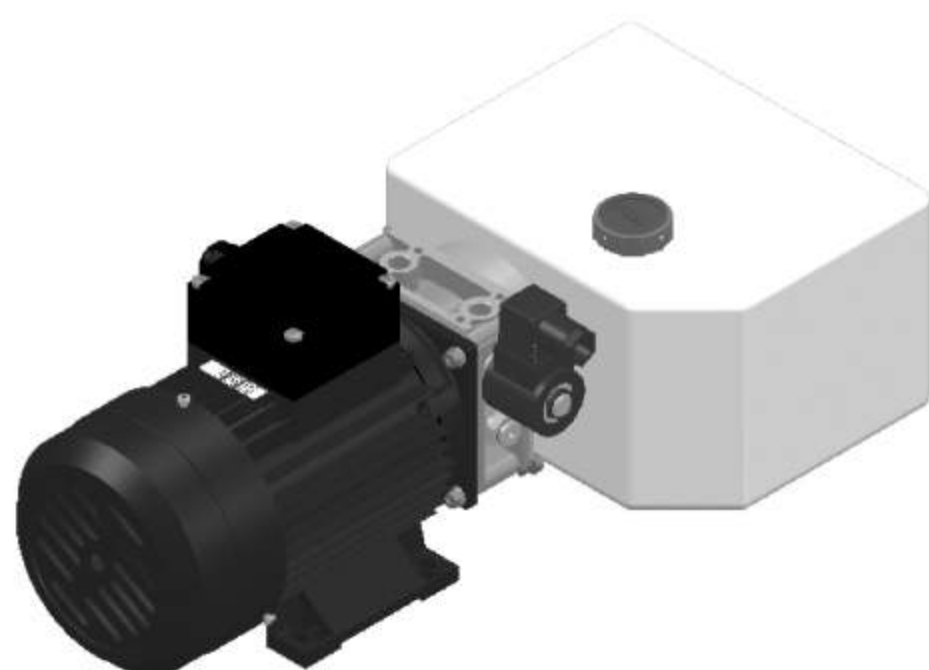
## 典型动力单元

Power unit Model



CMA型交流动力单元

AC power unit of CMA



CMB1-01型直流动力单元

DC power unit of CMB1-01

