稀油泵 — Thin oil pump

稀油油脂泵 — Thin oil grease pump

油雾系统 — Oil mist system

稀油油脂泵 — Thin oil grease pump

Grease pump (with spring compression 000#-2#)

油脂泵(带弹簧压缩000#-2#)

Grease pump (without spring compression suitable for 000#-00#)

油脂泵(不带弹簧压缩 适合000#-00#)

Hand pump / **手动泵**

Distributor / **分配器**

分配器　Distributor

润滑附件　Lubrication accessories

容积式润滑系统装配图

EH-418　EB-4　EA-4

PT1/8牙

EH-418　EB-4　EA-4

PT1/8牙

EA-4　EB-4　EH-418

4MM油管

6mm 油管

EA-6　EB-6

3TD-10-10L　EC-1106

ES-10Z

VAE-04

EC-1106

VAE-05

EA-6　EB-6

EB-6　EA-6

EB-4

EA-4

ED-418

VAE-02

EH-418
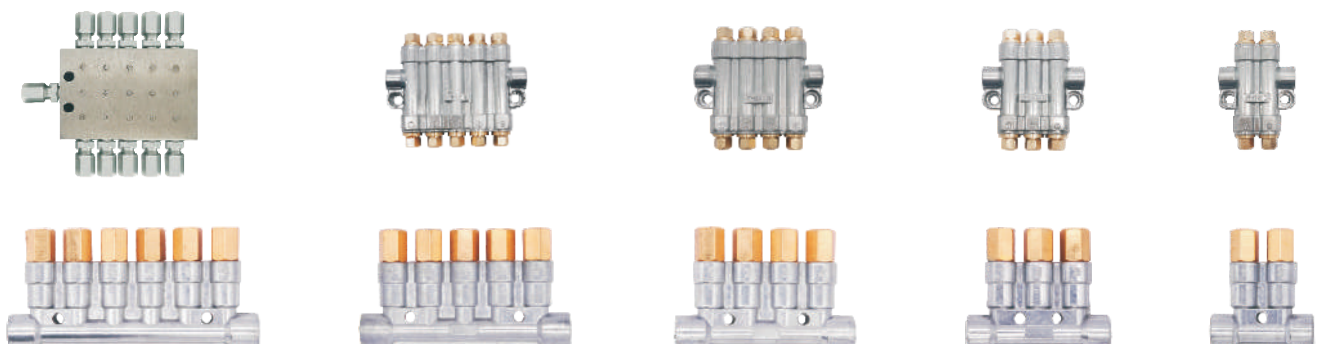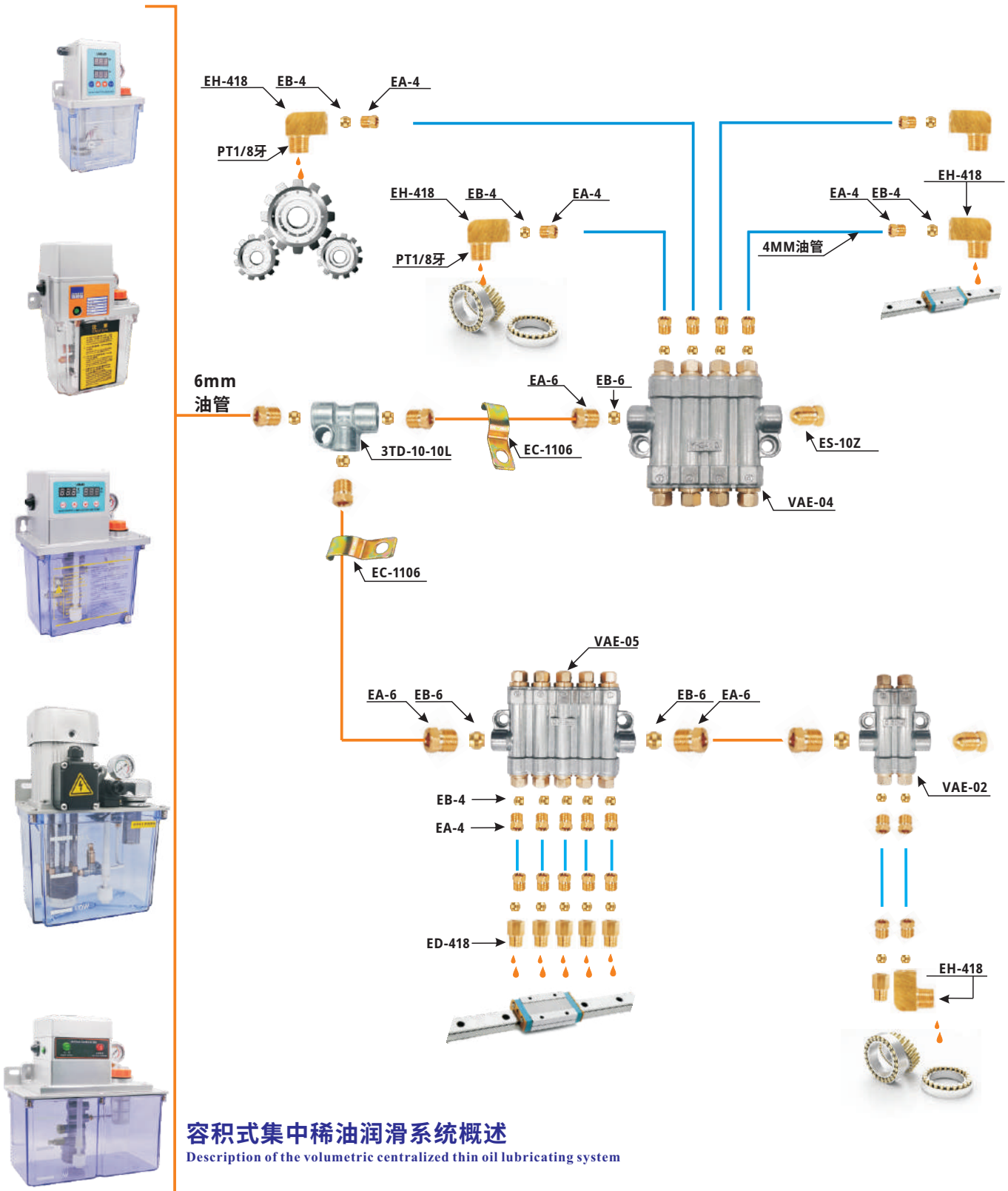
容积式集中稀油润滑系统概述
Description of the volumetric centralized thin oil lubricating system

容积式润滑系统由容积式润滑泵与滤油器、直通式分油块、容积式分配器、铜接头油管等配件组成，此润滑系统包括（脱压式定量出油）和（加压式定量出油）两种形式。

The volumetric lubricating system is composed of volumetric lubricating pump and oil filter，through oil distribution block，volumetric distributor，copper joint and oil pipe etc..The lubricating system is composed of two types of oil delivery.namely，the decompression quantified oil delivery and the pressurized quantifiec oil delivery.

加压式润滑系统装配图

Installation Diagram of Volumetric Lubrication System

EH-418　EB-4　EA-4

PT1/8牙

EH-418　EB-4　EA-4

PT1/8牙

EA-4　EB-4　EH-418

4MM油管

6mm 油管

EA-6　EB-6

3TD-10-10L

EC-1106

VAG-04

ES-10Z

EC-1106

EA-6　EB-6　　VAG-05　　EB-6　EA-6

EB-4

EA-4

ED-418

VAG-02

EH-418
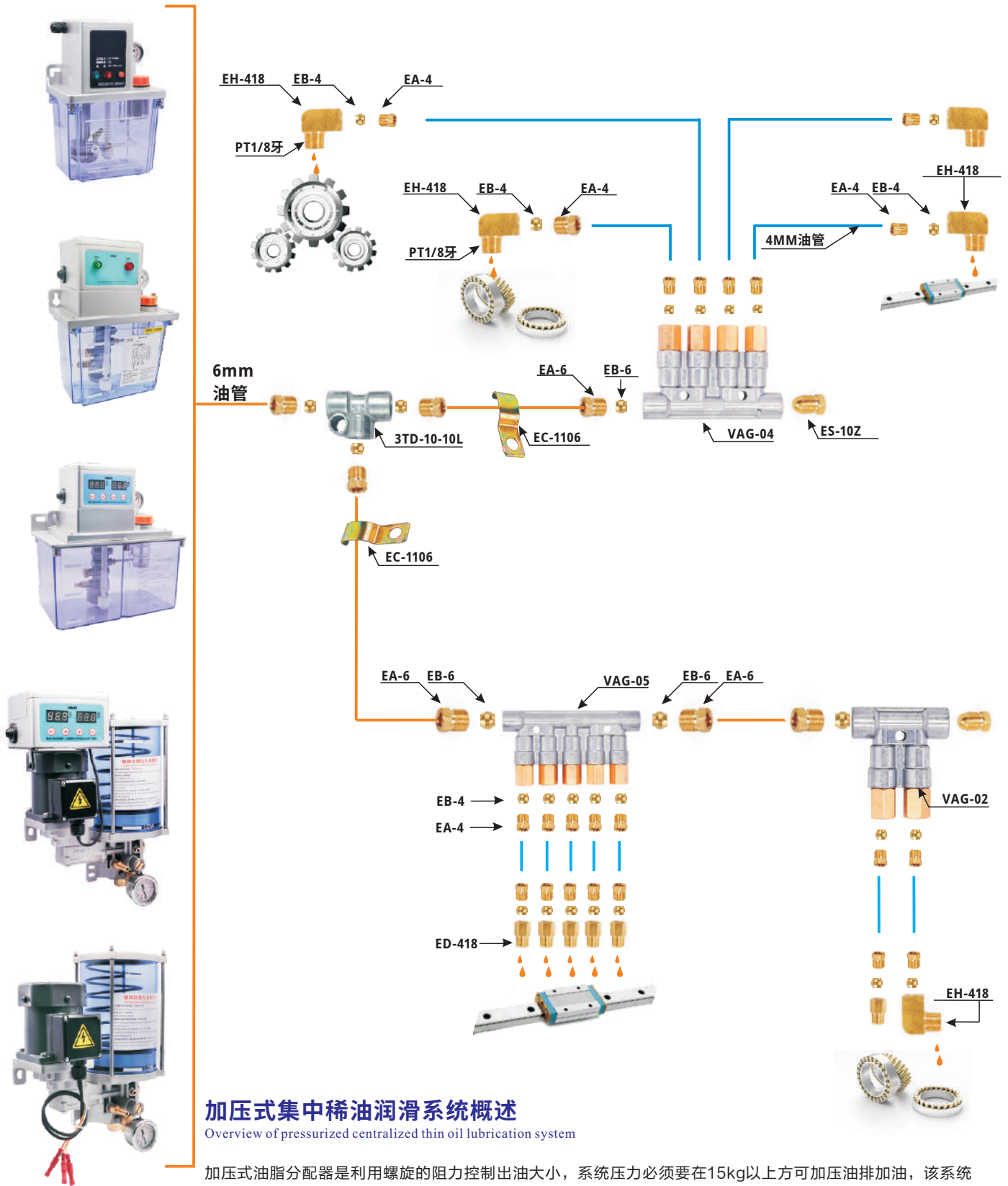
加压式集中稀油润滑系统概述

Overview of pressurized centralized thin oil lubrication system

加压式油脂分配器是利用螺旋的阻力控制出油大小，系统压力必须要在15kg以上方可加压油排加油，该系统适用于000#至1#润滑油的机械;

Pressurized grease distributor is used to control the size of oil output by the resistance of the screw, and the pressure of the system must be more than 15kg Can be pressurized oil drainage and refueling, the system is suitable for 000# to 1# lubricating oil machinery;
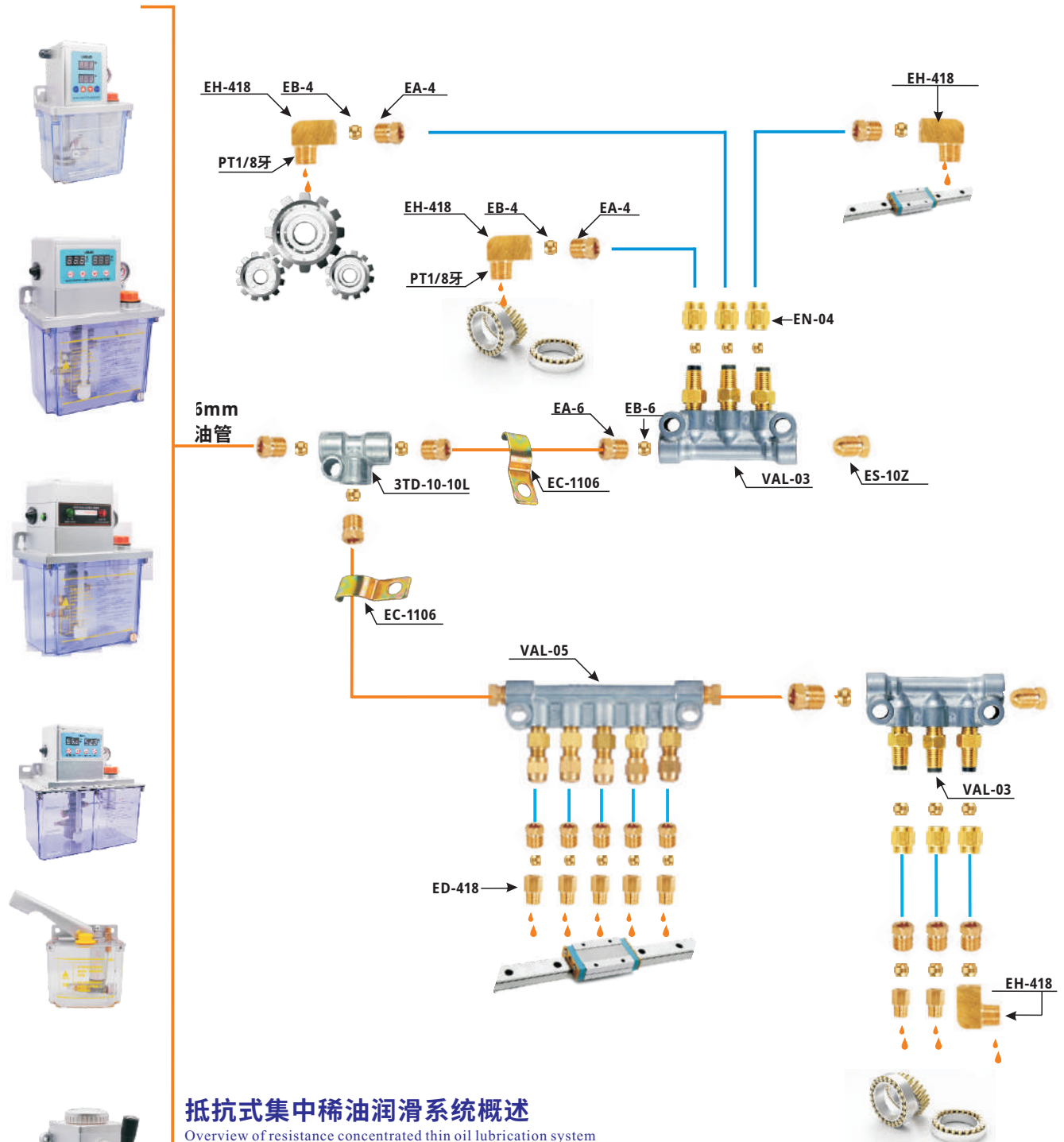
抵抗式润滑系统装配图

Installation Diagram of Volumetric Lubrication System

EH-418　EB-4　　EA-4　　　　　　　　　　　　　EH-418

PT1/8牙

EH-418　EB-4　　EA-4

PT1/8牙

EN-04

5mm 油管

EA-6　　EB-6

3TD-10-10L　　EC-1106　　　　　VAL-03　　ES-10Z

EC-1106

VAL-05

VAL-03

ED-418

EH-418

抵抗式集中稀油润滑系统概述

Overview of resistance concentrated thin oil lubrication system

　　DPC型抵抗式计量件又简称为比例式接头管式结构，内设有限流杆和单向阀启动压力：0.2MPa通过节流原理控制流量，按流通能力（流量定数）对流量进行比例匹配。同型号计量件再润滑系统中相互间距离的远、近、高、低、卧装或立装均在实际衬使用中其出油量基本相等。使用寿命长，比例接头单相伐其橡胶密封件外部衬压铜套（除密封面外）防止橡胶密封件膨胀和老化。动作灵敏，排油畅通；比例接头单相伐采用锥形弹簧，确保计量件动作灵敏与排油畅通，并防止排出的油逆流。流量比：统一型号的流量在实际使用过程中会由环境温度的变化和有的黏度不同而发生变化。

　　DPC type resistance metering piece is also referred to as the proportional joint pipe type structure, with a restrictor rod and a one-way valve inside. Start-up pressure: 0.2MPa controls the flow rate through the throttling principle, and proportionally matches the flow rate according to the flow capacity (flow rate). In the relubrication system of the same type of metering parts, the distance between the far, near, high, low, horizontal or vertical installation is basically the same in actual lining use. Long service life, the proportional joint single-phase rubber seal is lined with a copper sleeve (except the sealing surface) to prevent expansion and aging of the rubber seal.

The action is sensitive and the oil drain is smooth; the proportional joint single-phase valve adopts a conical spring to ensure the sensitive action of the metering piece and the smooth oil drain, and prevent the drained oil from flowing back.Flow rate ratio: The flow rate of the unified model will change due to the change of ambient temperature and the difference of some viscosity during actual use.

递进式润滑系统装配图

Progressive lubrication system
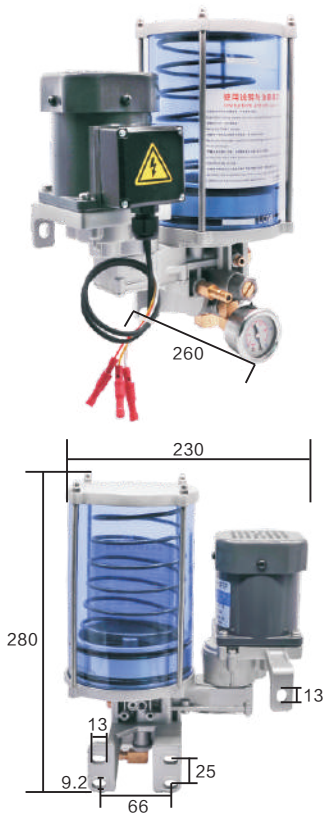assembly drawing

EC-1106

EC-1106

EC-1106
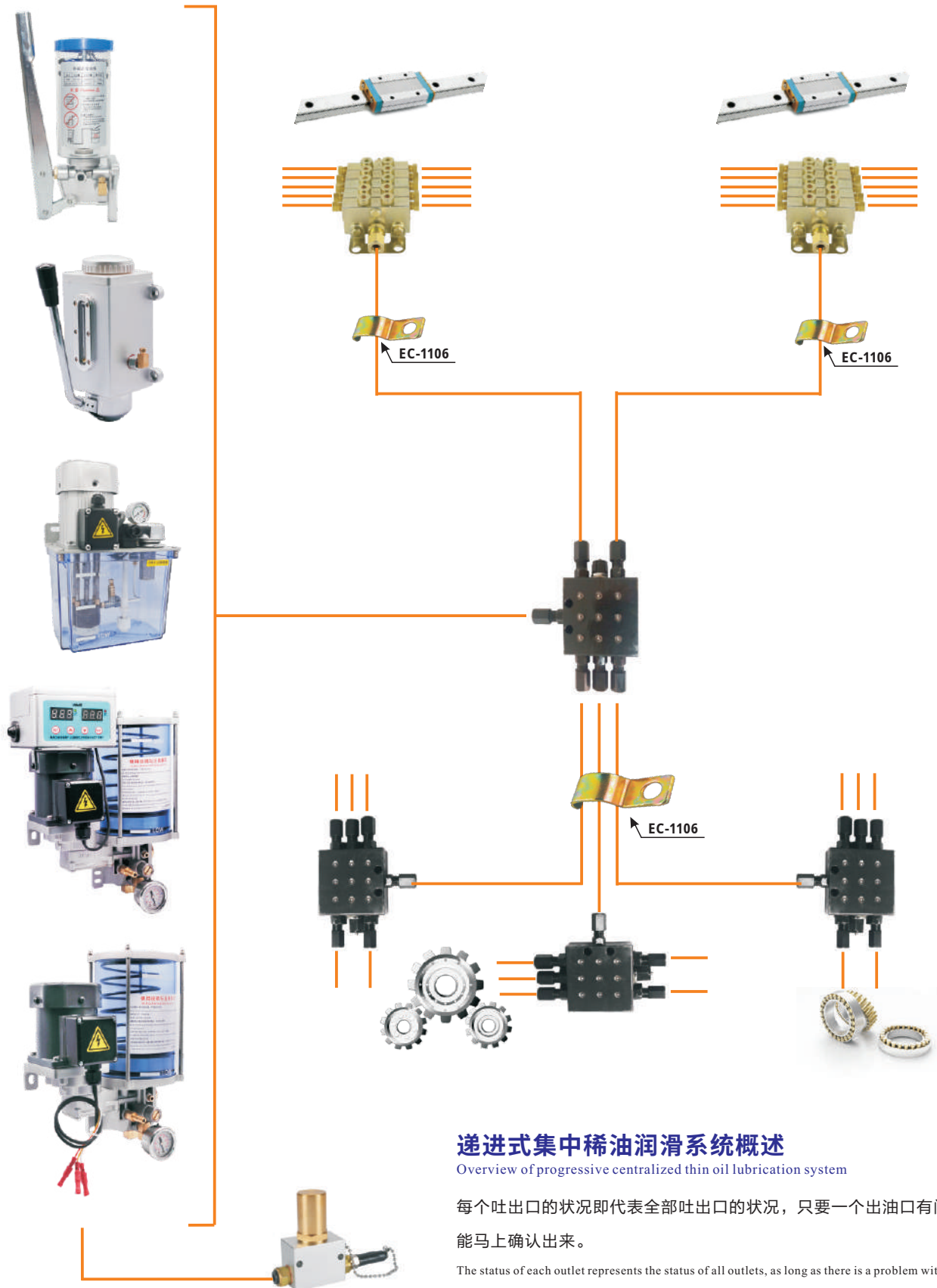
递进式集中稀油润滑系统概述
Overview of progressive centralized thin oil lubrication system

每个吐出口的状况即代表全部吐出口的状况，只要一个出油口有问题并

能马上确认出来。

The status of each outlet represents the status of all outlets, as long as there is a problem with one

outlet, it can be confirmed immediately.

PLC柱塞式黄油泵
PLC plunger grease pump

260

230

280

13

13

9.2

66

25

EAG - ☐☐☐☐ ☐ - ☐☐☐ - ☐☐☐

控制类型
Types of control

A	PLC控制器 PLC controller
B	自带控制器 Built-in controller
C	分离控制器 Separate controller

润滑系统类型
Type of lubrication system

| X | 容积式 Volumetric |
| T | 抵抗式 Resistance |

压力开关
Pressure switch

| 空白 blank | 不带压力开关 Without pressure switch |
| P | 带压力开关 With pressure switch |

油箱容积
Tank volume

015	1.5L
2	2L
3	3L

*油箱容积可根据客户要求定做
* Tank capacity can be customized according to customer requirements

功率/流量
Power/flow

| 25W | 流量20CC/min |
| 40W | 流量50CC/min |

油位检测
Oil level detection

| 空白 blank | 无低油位报警器 No low oil level alarm |
| B | 带低油位报警器 With a low oil level alarm |

出油口类型
Type of outlet

| L | 直角接头 Right Angle connector |
| D | 直通接头 Through joint |

加油口形式
Filling port form

H	黄油嘴 Grease nipple
Y	快插式加油嘴 Quick plug refueling nozzle
B	配油脂过滤器 Grease filter

出油口管径
Outlet pipe diameter

| 6 | Φ6 |
| 8 | Φ8 |

输入电压
The input voltage

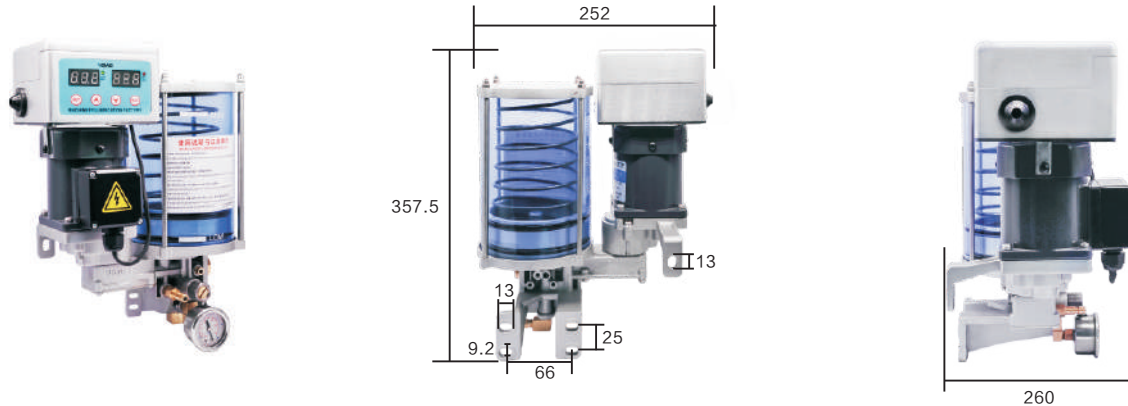| 1 | 单相 Single phase 110V |
2	单相 Single phase 220V
3	DC12V
4	DC24V

性能和特点 Performance & Characteristics

- 可通过主机PLC或独立控制器控制润滑油泵工作周期；
- 设电磁阀卸压装置，当润滑油泵停止运行确保系统自动快速卸压；
- 设有调压阀装置，可自主设定润滑油泵的工作压力保障其工作安全；
- 设有排气阀，可排除润滑油泵腔内空气确保润滑油泵排油通畅；
- 设有低油位报警装置，当油量不足时，会发出报警信号；
- 请使用加油枪通过油脂过滤器向润滑油泵储油箱内添加油脂，可避免杂质，空气混入润滑系统内从而提高润滑系统；
- 润滑油泵可安装压力开关有效的检测润滑油泵主管油路是否中断渗漏等压力不足现象；
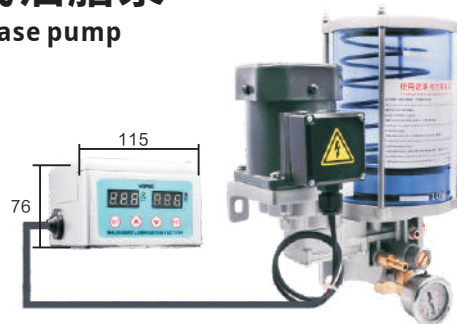- 采用弹簧式压油盘真空吸油；

- The working cycle of the lubricating oil pump can be controlled by the host PLC or an independent controller.
- Equipped with a solenoid valve pressure relief device, when the lubricating oil pump stops running to ensure that the system automatically and quickly relieve pressure.
- Equipped with a pressure regulating valve device, which can independently set the working pressure of the lubricating oil pump to ensure its safety.
- Equipped with exhaust valve, it can eliminate the air in the lubricating oil pump cavity to ensure the smooth discharge of the lubricating oil pump.
- With low oil level alarm device, when the oil is insufficient, an alarm signal will be issued.
- Please use a grease gun to add grease to the oil pump storage tank through the grease filter to avoid.
- No impurities, air is mixed into the lubrication system to improve the lubrication system.
- Lubricating oil pump can be installed with a pressure switch to effectively detect whether the main pipeline of the lubricating oil pump is interrupted or leaking.
- Wait for insufficient pressure.
- Vacuum oil absorption by spring type oil pressure plate.

型号规格 Specifications	流量 FLOW	电压 voltage	电机功率 Motor Power	油箱容量 oil tank Volume	最大吐出压力 Maximum Ejection pressure	油粘度 Oil viscosity
EAG-AT015-16Y-LB25 （例：110V半自动选型）	20cc/min	单相110V	25W		8.0MPa	000#-1#
EAG-BT015-26Y-LB25 （例：220V全自动选型）	20cc/min	单相220V	25W	1.5L（默认）油箱容量可定制	8.0MPa	000#-1#
EAG-AT015-46Y-LB55 （例：DC24V半自动选型）	50cc/min	单相220V	55W		15MPa	000#-3#
EAG-BT015-26Y-LB40 （例：220V全自动选型）	50cc/min	单相220V	40W		15MPa	000#-3#

自带显示器柱塞式黄油泵
Piston type grease pump with display

252

357.5

13

13

9.2

66

25

260

分离显示器柱塞式油脂泵
Separate display plunger grease pump

115

76

操作说明：

1.工作时间设定：

请长按SET键见数字跳动时松开按钮，按▲▼键设定个位数时间，再按SET跳动到十位数按▲▼键设定十位数时间，再按下SET键跳动百位数，按▲▼键设定百位数时间(1-999秒)；

2.间歇时间设定：

工作时间设定完毕后按住SET键约2秒跳动到间歇时间的个位数，按▲▼键设定时间，按下SET键进入到十位数，按▲▼键设定时间，再按下SET键进入百位数，按▲▼键设定时间，(1-999分钟/小时)设定完毕后，长按SET键进入正常工作状态；

3.RST键为暂停键或启动键，也可消除压力异常报警；

4.油泵设定好时间后，进入LUB(工作)与INT(间歇)循环转换状态；

5.ERO闪烁时，表示油量不足需重新注入新油自动消除报警；

6.ERP闪烁时，表示压力异常，需检查油泵是否工作正常或油管主路是否有破裂或者漏油现象导致压力不足；

7.电脑板内设有按键锁，打开小开关⊥可锁住SET键按钮，不能进入时间设定，RST可正常使用；

8.电脑板内设有间歇时间断电记忆功能，打开小开关⊥进入断电记忆状态；

Instructions:

1. Working Time Setting:
Please long press SET button, and release the SET button when the number jumps. Press▲▼button to set single digit time, then press SET to jump to ten digits. Press▲▼ button to set ten digit time. Press SET again to jump through the hundreds digit, then press ▲▼ button to set the hundreds digit time. (1-999 seconds);

2. Intermittent Time Setting:
After setting the working time, hold down the SET button for about 2 seconds to jump to the single digit of the intermittent time, press the ▲▼ button to set the time. Press the SET button to enter the ten digits, then press the ▲▼ button to set time. Press the SET button to enter the hundreds digit, press the ▲▼ button to set the time. (1-999 minutes / hour) After setting, long press the SET button to enter the normal working state;

3. The RST button is a pause button or a restart button, which can also elimi;

4. After the time of oil pump has been set, it will enter the LUB and INT cycle conversion state;

5. When ERO flashes, it means that the amount of oil is insufficient and new oil needs to be refilled to automatically eliminate the alarm;

6. When the ERP flashes, it indicates that the pressure is abnormal. It is necessary to check whether the oil pump is working properly or whether the main pipe of the oil pipe is cracked or oil leakage causes insufficient pressure;

7. There is a lock button in the computer board. Open the small switch⊥, you can lock the SET button. Then you can't enter the time setting but RST can be used normally;

8. There is intermittent power-off memory function in the computer board. When open the small switch⊥, it will enter the power-off memory state;

PLC柱塞式油脂泵
PLC plunger grease pump

EAS - ☐☐☐☐☐ - ☐☐☐ - ☐☐☐

控制类型
Types of control

A	PLC控制器 PLC controller
B	自带控制器 Built-in controller
C	分离控制器 Separate controller

润滑系统类型
Type of lubrication system

| X | 容积式 Volumetric |
| T | 抵抗式 Resistance |

压力开关
Pressure switch

| 空白 blank | 不带压力开关 Without pressure switch |
| P | 带压力开关 With pressure switch |

油箱容积
Tank volume

015	1.5L
2	2L
3	3L

*油箱容积可根据客户要求定做
* Tank capacity can be customized according to customer requirements

功率/流量
Power/flow

| 25W | 流量20CC/min |
| 40W | 流量50CC/min |

油位检测
Oil level detection

| 空白 blank | 无低油位报警器 No low oil level alarm |
| B | 带低油位报警器 With a low oil level alarm |

出油口类型
Type of outlet

| L | 直角接头 Right Angle connector |
| D | 直通接头 Through joint |

加油口形式
Filling port form

H	黄油嘴 Grease nipple
Y	快插式加油嘴 Quick plug refueling nozzle
B	配油脂过滤器 Grease filter

出油口管径
Outlet pipe diameter

| 6 | Φ6 | 8 | Φ8 |

输入电压
The input voltage

1	单相 Single phase 110V
2	单相 Single phase 220V
3	DC12V
4	DC24V

尺寸标注: 230, 310, 13, 13, 25, 9.2, 66

性能和特点 Performance & Characteristics

- 可通过主机PLC或独立控制器控制润滑油泵工作周期。
- 设电磁阀卸压装置，当润滑油泵停止运行确保系统自动快速卸压
- 设有调压阀装置，可自主设定润滑油泵的工作压力保障其工作安全
- 设有排气阀，可排除润滑油泵腔内空气确保润滑油泵排油通畅
- 设有低油位报警装置，当油量不足时，会发出报警信号
- 请使用加油枪通过油脂过滤器向润滑油泵储油箱内添加油脂，可避免杂质，空气混入润滑系统内从而提高润滑系统.
- 润滑油泵可安装压力开关有效的检测润滑油泵主管油路是否中断渗漏等压力不足现象。
- 采用弹簧式压油盘真空吸油

- The working cycle of the lubricating oil pump can be controlled by the host PLC or an independent controller.
- Equipped with a solenoid valve pressure relief device, when the lubricating oil pump stops running to ensure that the system automatically and quickly relieve pressure.
- Equipped with a pressure regulating valve device, which can independently set the working pressure of the lubricating oil pump to ensure its safety.
- Equipped with exhaust valve, it can eliminate the air in the lubricating oil pump cavity to ensure the smooth discharge of the lubricating oil pump.
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- Please use a grease gun to add grease to the oil pump storage tank through the grease filter to avoid
- No impurities, air is mixed into the lubrication system to improve the lubrication system.
- Lubricating oil pump can be installed with a pressure switch to effectively detect whether the main pipeline of the lubricating oil pump is interrupted or leaking
- Wait for insufficient pressure.
- Vacuum oil absorption by spring type oil pressure plate.

规格型号及技术参数 Specifications and technical parameters

型号规格 Specifications	流量 FLOW	电压 voltage	电机功率 Motor Power	油箱容量 oil tank Volume	最大吐出压力 Maximum Ejection pressure	油粘度 Oil viscosity
EAS-AT015-16Y-LB25 （例：110V半自动选型）	20cc/min	单相110V	25W	1.5L（默认） 油箱容量可定制	8.0MPa	000#-1#
EAS-BT015-26Y-LB25 （例：220V全自动选型）	20cc/min	单相220V	25W		8.0MPa	000#-1#
EAS-AT015-46Y-LB55 （例：DC24V半自动选型）	50cc/min	单相220V	55W		15MPa	000#-3#
EAS-BT015-26Y-LB40 （例：220V全自动选型）	50cc/min	单相220V	40W		15MPa	000#-3#

自带显示器柱塞式油脂泵
Piston type grease pump with display
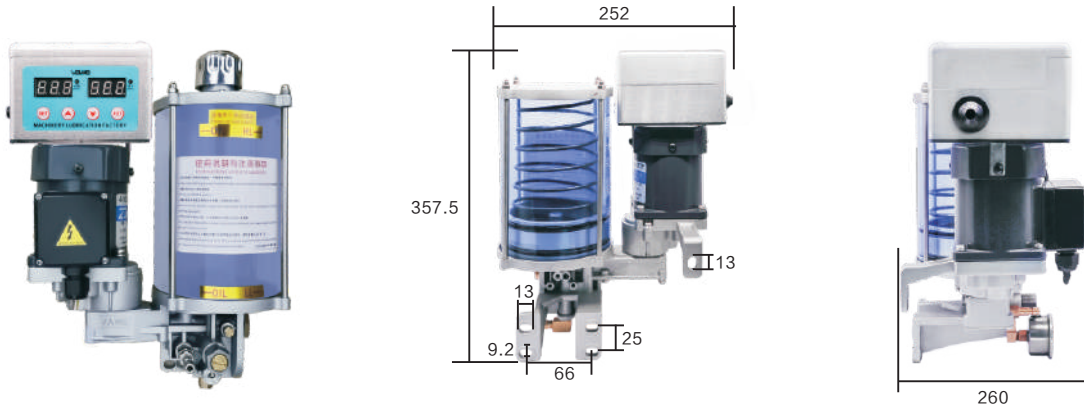
分离显示器柱塞式油脂泵
Separate display plunger grease pump

操作说明：

1.工作时间设定：

请长按SET键见数字跳动时松开按钮，按▲▼键设定个位数时间，再按SET跳动到十位数按▲▼键设定十位数时间，再按下SET键跳动百位数，按▲▼键设定百位数时间(1−999秒)；

2.间歇时间设定：

工作时间设定完毕后按住SET键约2秒跳动到间歇时间的个位数，按▲▼键设定时间，按下SET键进入到十位数，按▲▼键设定时间，再按下SET键进入百位数，按▲▼键设定时间，(1−999分钟/小时)设定完毕后，长按SET键进入正常工作状态；

3.RST键为暂停键或启动键，也可消除压力异常报警；

4.油泵设定好时间后，进入LUB(工作)与INT(间歇)循环转换状态；

5.ERO闪烁时，表示油量不足需重新注入新油自动消除报警；

6.ERP闪烁时，表示压力异常，需检查油泵是否工作正常或油管主路是否有破裂或者漏油现象导致压力不足；

7.电脑板内设有按键锁，打开小开关⊥可锁住SET键按钮，不能进入时间设定，RST可正常使用；

8.电脑板内设有间歇时间断电记忆功能，打开小开关⊥进入断电记忆状态；

Instructions:

1. Working Time Setting:
Please long press SET button, and release the SET button when the number jumps. Press▲▼button to set single digit time, then press SET to jump to ten digits. Press▲▼button to set ten digit time. Press SET again to jump through the hundreds digit, then press ▲▼ button to set the hundreds digit time. (1−999 seconds);

2. Intermittent Time Setting:
After setting the working time, hold down the SET button for about 2 seconds to jump to the single digit of the intermittent time, press the ▲▼ button to set the time. Press the SET button to enter the ten digits, then press the ▲▼ button to set time. Press the SET button to enter the hundreds digit, press the ▲▼ button to set the time. (1−999 minutes / hour) After setting, long press the SET button to enter the normal working state;

3. The RST button is a pause button or a restart button, which can also elimi;

4. After the time of oil pump has been set, it will enter the LUB and INT cycle conversion state;

5. When ERO flashes, it means that the amount of oil is insufficient and new oil needs to be refilled to automatically eliminate the alarm;

6. When the ERP flashes, it indicates that the pressure is abnormal. It is necessary to check whether the oil pump is working properly or whether the main pipe of the oil pipe is cracked or oil leakage causes insufficient pressure;

7. There is a lock button in the computer board. Open the small switch⊥, you can lock the SET button. Then you can't enter the time setting but RST can be used normally;

8. There is intermittent power−off memory function in the computer board. When open the small switch⊥, it will enter the power−off memory state;

VC220☐-015X 电动润滑泵（罩极电机）

性能和特点 Performance & Characteristics

- 安装方便，接线简单；
- 供油时间由主机电脑PLC控制与设定；
- 采用特殊合金钢齿轮泵，具有输出压力稳定，噪音小，寿命长；
- 具有液位不足侦测功能；
- 具有自动脱压功能，与检知容积式分配器使用可充分发挥润滑效果。

Easy to install and easy to connect;
- Oil supply time is controlled and set by the host computer PLC;
- Special alloy steel gear pump with stable output pressure,low noise and long life;
- Low level detection;
- It has automatic decompression function, and the use of the detection volume distri butor can give full play to the lubrication effect.

主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VC2202-015X	220V	18	0.35	15-20	30	1.5	100-150	30-1000
VC2201-015X	110V	18	0.35	15-20	30	1.5	100-150	30-1000
VC2202-01515X	220V	18	0.35	15-20	30	1.5	100-150	30-1000

VC2202-01515X :带15KG压力开关压力开关　　VC2202-015X :不带压力开关

接线图 Connetion diagram
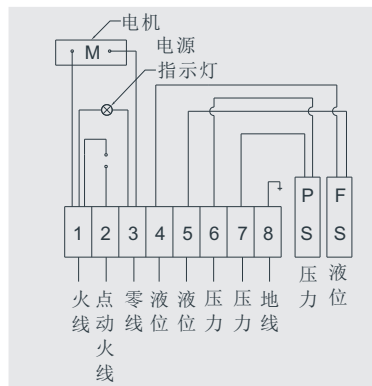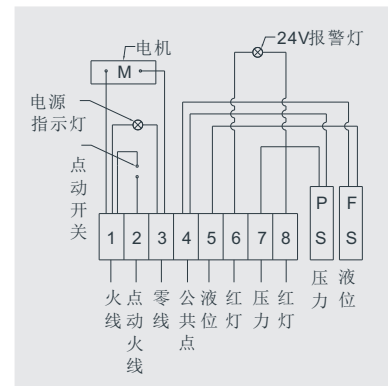
24V报警(默认)　　单灯液位独立压力开关独立　　震德式接线

DE220 □ -018X 电动润滑泵（罩极电机）

210
185
2-8.5
123
285

性能和特点 Performance & Characteristics

- 安装方便，接线简单;
- 供油时间由主机电脑PLC控制与设定;
- 采用特殊合金钢齿轮泵，具有输出压力稳定，噪音小，寿命长;
- 具有液位不足侦测功能;
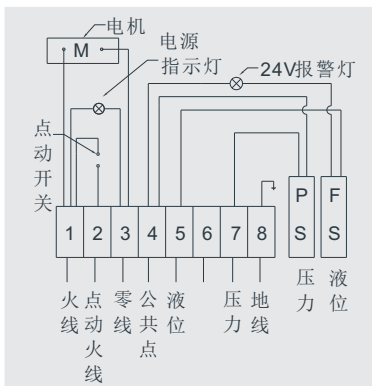- 具有自动脱压功能，与检知容积式分配器使用可充分发挥润滑效果;

- Easy to install and easy to connect;
- Oil supply time is controlled and set by the host computer PLC;
- Special alloy steel gear pump with stable output pressure,low noise and long life;
- Low level detection;
- It has automatic decompression function, and the use of the detection volume distri butor can give full play to the lubrication effect.

主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
DE2202-018X	220V	18	0.35	15-20	30	1.8	100-150	30-1000
DE2201-018X	110V	18	0.35	15-20	30	1.8	100-150	30-1000
DE2201-01815X	220V	18	0.35	15-20	30	1.8	100-150	30-1000

DE2202-01815X :带15KG压力开关   DE2202-018X :不带压力开关

接线图 Connetion diagram

24V报警(默认)

单灯液位独立压力开关独立
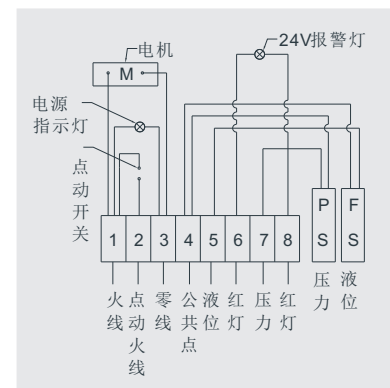
震德式接线

VC220 ☐ -200X 电动润滑泵（罩极电机）

212
175
32.5

137
287
168

- 安装方便，接线简单;
- 供油时间由主机电脑PLC控制与设定;
- 采用特殊合金钢齿轮泵，具有输出压力稳定，噪音小，寿命长;
- 具有液位不足侦测功能;
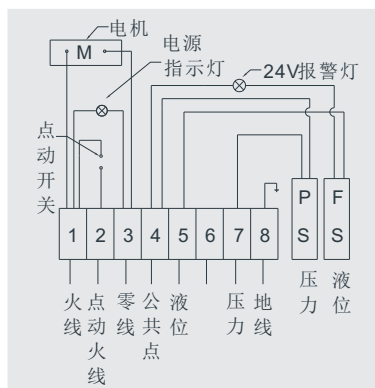- 具有自动脱压功能，与检知容积式分配器使用可充分发挥润滑效果;

- Easy to install and easy to connect;
- Oil supply time is controlled and set by the host computer PLC;
- Special alloy steel gear pump with stable output pressure,low noise and long life;
- Low level detection;
- It has automatic decompression function, and the use of the detection volume distri butor can give full play to the lubrication effect.
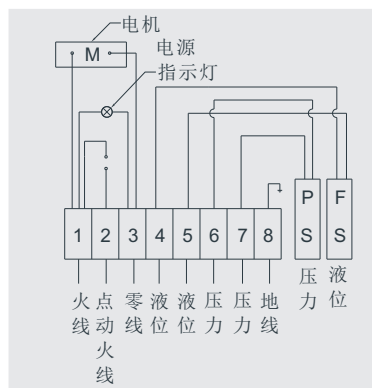
主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VC2202-200X	220V	18	0.35	15-20	30	2	100-150	30-1000
VC2201-200X	110V	18	0.35	15-20	30	2	100-150	30-1000
VC2202-215X	220V	18	0.35	15-20	30	2	100-150	30-1000

VC2202-215X :带15KG压力开关   VC2202-200X :不带压力开关

接线图 Connetion diagram

24V报警(默认)
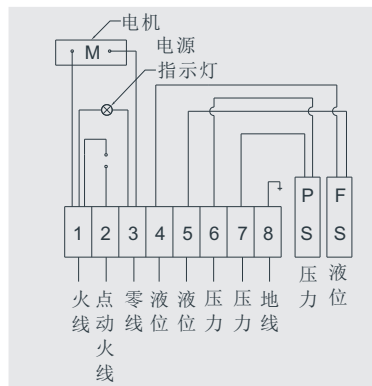
单灯液位独立压力开关独立
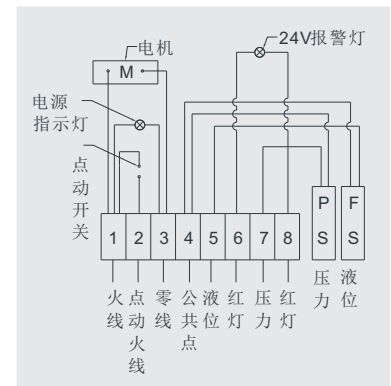
震德式接线

VC220 □ -400X 电动润滑泵（罩极电机）

270

232

8.5

15

278
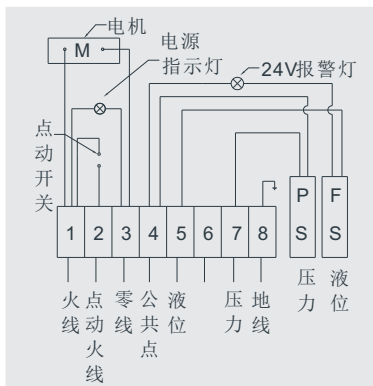
278

性能和特点 Performance & Characteristics

- 安装方便，接线简单;
- 供油时间由主机电脑PLC控制与设定;
- 采用特殊合金钢齿轮泵，具有输出压力稳定，噪音小，寿命长;
- 具有液位不足侦测功能;
- 具有自动脱压功能，与检知容积式分配器使用可充分发挥润滑效果;

- Easy to install and easy to connect;
- Oil supply time is controlled and set by the host computer PLC;
- Special alloy steel gear pump with stable output pressure,low noise and long life;
- Low level detection;
- It has automatic decompression function, and the use of the detection volume distri butor can give full play to the lubrication effect.

主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VC2202-400X	220V	18	0.35	15-20	30	4	100-150	30-1000
VC2201-400X	110V	18	0.35	15-20	30	4	100-150	30-1000
VC2202-410X	220V	18	0.35	15-20	30	4	100-150	30-1000

VC2202-415X :带15KG压力开关   VC2202-400X :不带压力开关

接线图 Connetion diagram

电机
M
电源
指示灯
24V报警灯
点动开关
1 2 3 4 5 6 7 8
P S
F S
火线
点动火线
零线
公共点
液位
压力
地线
压力
液位

24V报警(默认)

电机
M
电源
指示灯
1 2 3 4 5 6 7 8
P S
F S
火线
点动火线
零线
液位
液位
压力
压力
地线
压力
液位

单灯液位独立压力开关独立

电机
M
24V报警灯
电源
指示灯
点动开关
1 2 3 4 5 6 7 8
P S
F S
火线
点动火线
零线
公共点
液位
红灯
压力
红灯
压力
液位
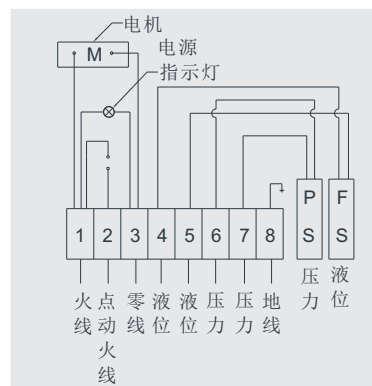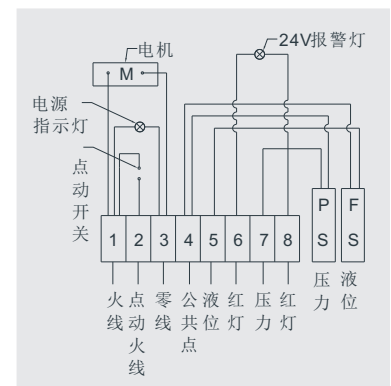
震德式接线

VC220 ☐ -1000X 电动润滑泵（罩极电机）

460
430
220
115
290

性能和特点 Performance & Characteristics

- 安装方便，接线简单；
- 供油时间由主机电脑PLC控制与设定；
- 采用特殊合金钢齿轮泵，具有输出压力稳定，噪音小，寿命长；
- 具有液位不足侦测功能；
- 具有自动脱压功能，与检知容积式分配器使用可充分发挥润滑效果；

- Easy to install and easy to connect;
- Oil supply time is controlled and set by the host computer PLC;
- Special alloy steel gear pump with stable output pressure,low noise and long life;
- Low level detection;
- It has automatic decompression function, and the use of the detection volume distri butor can give full play to the lubrication effect.

主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VC2202-1000X	220V	18	0.35	15-20	30	10	100-150	30-1000
VC2201-1000X	110V	18	0.35	15-20	30	10	100-150	30-1000
VC2202-1015X	220V	18	0.35	15-20	30	10	100-150	30-1000

VC2202-1015X :带15KG压力开关　　VC2202-1000X :不带压力开关

接线图 Connetion diagram
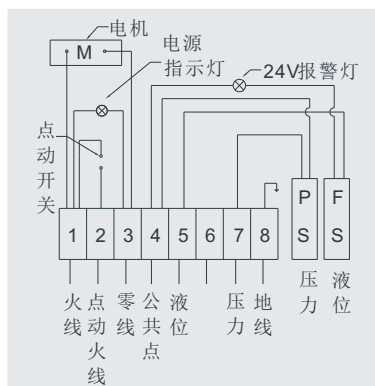
24V报警(默认)

单灯液位独立压力开关独立

震德式接线

VL220 ☐ -200X 电动润滑泵（异步电机）

212
175
32.5

137

287
168

- 安装方便，接线简单；
- 供油时间由主机电脑PLC控制与设定；
- 采用特殊合金钢齿轮泵，具有输出压力稳定，噪音小，寿命长；
- 具有液位不足侦测功能；
- 具有自动脱压功能，与检知容积式分配器使用可充分发挥润滑效果；
- 异步电机可连续工作适用于工作时间较长的设备；

- Easy to install and easy to connect;
- Oil supply time is controlled and set by the host computer PLC;
- Special alloy steel gear pump with stable output pressure, low noise and long life;
- Low level detection;
- It has automatic decompression function, and the use of the detection volume distributor can give full play to the lubrication effect.
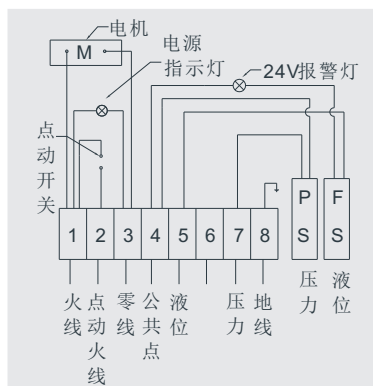- Asynchronous motor can work continuously and is suitable for equipment with long working time.

主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oil tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VL2202-200X	220V	35	0.35	15-20	40	2	100-150	30-1000
VL2201-200X	110V	35	0.35	15-20	40	2	100-150	30-1000
VL2202-215X	220V	35	0.35	15-20	40	2	100-150	30-1000

油脂配1350转电机 稀油配2800转电机　　　　VL2202-215X :带15KG压力开关　VL2202-200X :不带压力开关

接线图 Connetion diagram

电机
M
电源
指示灯
24V报警灯
点动开关
1 2 3 4 5 6 7 8
P F
S S
火 点 零 公 液 压 地 压 液
线 动 线 共 位 力 线 力 位
火 点
线

电机
M
电源
指示灯
1 2 3 4 5 6 7 8
P F
S S
火 点 零 液 液 压 压 地 压 液
线 动 线 位 位 力 力 线 力 位
火
线

电机
M
24V报警灯
电源
指示灯
点动开关
1 2 3 4 5 6 7 8
P F
S S
火 点 零 公 红 压 红 压 液
线 动 线 共 灯 力 灯 力 位
火 点
线

24V报警(默认)　　　　　**单灯液位独立压力开关独立**　　　　　**震德式接线**

VL220 □ -400X 电动润滑泵（异步电机）

270
232
8.5
15
278
278

性能和特点 Performance & Characteristics

- 安装方便，接线简单；
- 供油时间由主机电脑PLC控制与设定；
- 采用特殊合金钢齿轮泵，具有输出压力稳定，噪音小，寿命长；
- 具有液位不足侦测功能；
- 具有自动脱压功能，与检知容积式分配器使用可充分发挥润滑效果；
- 异步电机可连续工作适用于工作时间较长的设备；

- Easy to install and easy to connect;
- Oil supply time is controlled and set by the host computer PLC;
- Special alloy steel gear pump with stable output pressure, low noise and long life;
- Low level detection;
- It has automatic decompression function, and the use of the detection volume distributor can give full play to the lubrication effect.
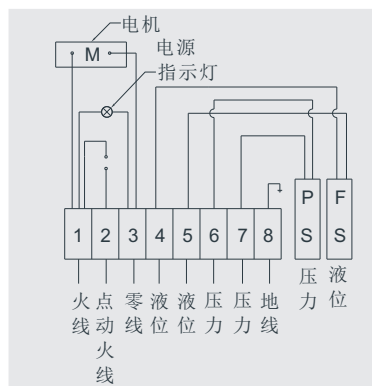- Asynchronous motor can work continuously and is suitable for equipment with long working time.

主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VL2202-400X	220V	35	0.35	15-20	40	4	200-300	30-00#
VL2201-400X	110V	35	0.35	15-20	40	4	200-300	30-00#
VL2202-415X	220V	35	0.35	15-20	40	4	200-300	30-00#

油脂配1350转电机　稀油配2800转电机　　　　VL2202-415X :带15KG压力开关 VL2202-400X :不带压力开关

接线图 Connetion diagram
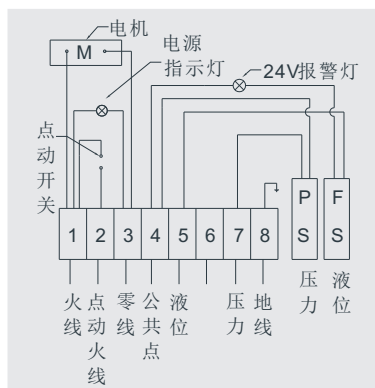
24V报警(默认)
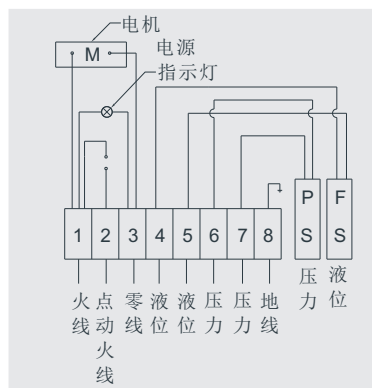
单灯液位独立压力开关独立

震德式接线

VL220 ☐ -1000X 电动润滑泵（异步电机）

460
430
115
220
290

性能和特点 Performance & Characteristics

- 安装方便，接线简单；
- 供油时间由主机电脑PLC控制与设定；
- 采用特殊合金钢齿轮泵，具有输出压力稳定，噪音小，寿命长；
- 具有液位不足侦测功能；
- 具有自动脱压功能，与检知容积式分配器使用可充分发挥润滑效果；
- 异步电机可连续工作适用于工作时间较长的设备；

- Easy to install and easy to connect;
- Oil supply time is controlled and set by the host computer PLC;
- Special alloy steel gear pump with stable output pressure, low noise and long life;
- Low level detection;
- It has automatic decompression function, and the use of the detection volume distributor can give full play to the lubrication effect.
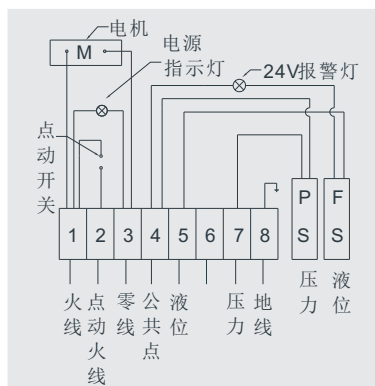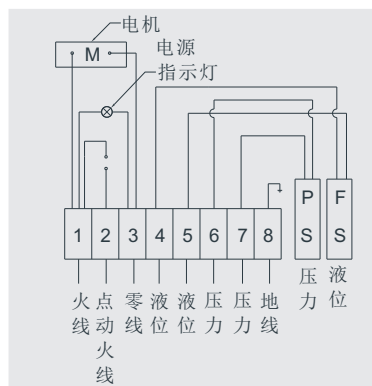- Asynchronous motor can work continuously and is suitable for equipment with long working time.

主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VL2202-1000X	220V	35	0.35	15-20	30	4	200-300	30-00#
VL2201-1000X	110V	35	0.35	15-20	30	4	200-300	30-00#
VL2202-1015X	220V	35	0.35	15-20	30	4	200-300	30-00#

VL2202-1015X :带15KG压力开关   VL2202-1000X :不带压力开关

接线图 Connetion diagram
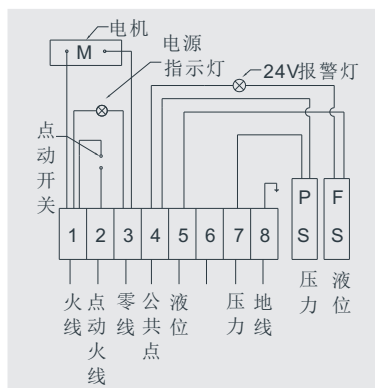
24V报警(默认)
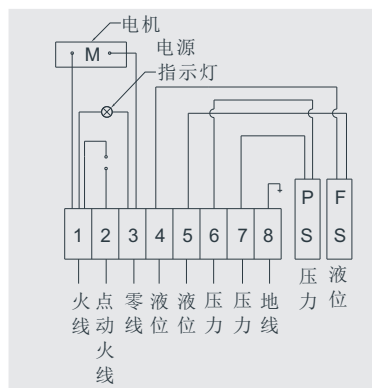
单灯液位独立压力开关独立
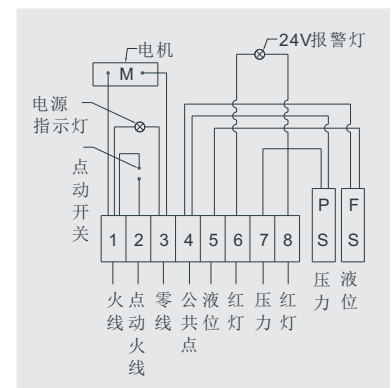
震德式接线

VC223☐-015XB 电动润滑泵（罩极电机）
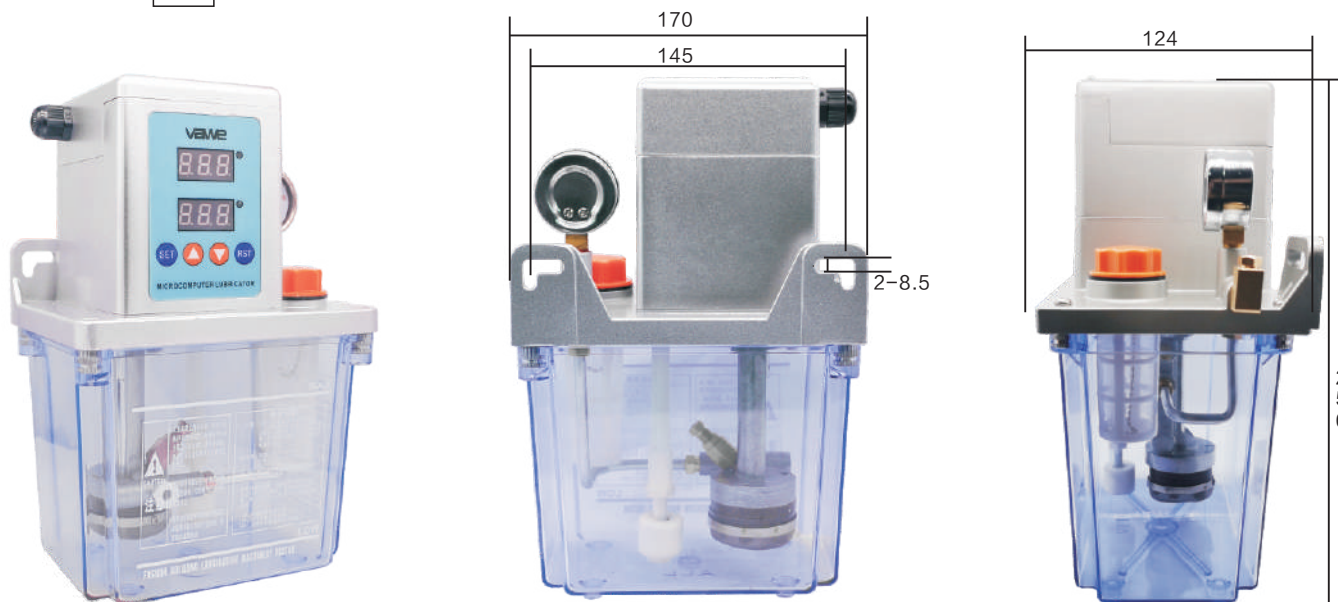
主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VC2232-015XB	220V	18	0.35	15-20	30	1.5	100-150	30-1000
VC2231-015XB	110V	18	0.35	15-20	30	1.5	100-150	30-1000
VC2232-01515XB	220V	18	0.35	15-20	30	1.5	100-150	30-1000

VC2232-01515XB :带15KG压力开关　　VC2232-015XB :不带压力开关

操作说明

1.工作时间设定：

请长按SET键见数字跳动时松开按钮，按▲▼键设定个位数时间，再按SET跳动到十位数按▲▼键设定十位数时间，再按下SET键跳动百位数，按▲▼键设定百位数时间(1-999秒)；

2.间歇时间设定：

工作时间设定完毕后按住SET键约2秒跳动到间歇时间的个位数，按▲▼键设定时间，按下SET键进入到十位数，按▲▼键设定时间，再按下SET键进入百位数，按▲▼键设定时间，(1-999分钟/小时)设定完毕后，长按SET键进入正常工作状态；

3.RST键为暂停键或启动键，也可消除压力异常报警；

4.油泵设定好时间后，进入LUB(工作)与INT(间歇)循环转换状态；

5.ERO闪烁时，表示油量不足需重新注入新油自动消除报警；

6.ERP闪烁时，表示压力异常，需检查油泵是否工作正常或油管主路是否有破裂或者漏油现象导致压力不足；

7.电脑板内设有按键锁，打开小开关▙可锁住SET键按钮，不能进入时间设定，RST可正常使用；

8.电脑板内设有间歇时间断电记忆功能，打开小开关▙进入断电记忆状态；

Instructions For

1. Working Time Setting:
Please long press SET button, and release the SET button when the number jumps. Press▲▼button to set single digit time, then press SET to jump to ten digits. Press▲▼button to set ten digit time. Press SET again to jump through the hundreds digit, then press ▲▼button to set the hundreds digit time. (1-999 seconds);

2. Intermittent Time Setting:
After setting the working time, hold down the SET button for about 2 seconds to jump to the single digit of the intermittent time, press the ▲▼button to set the time. Press the SET button to enter the ten digits, then press the ▲▼button to set time. Press the SET button to enter the hundreds digit, press the ▲▼button to set the time. (1-999 minutes / hour) After setting, long press the SET button to enter the normal working state;

3. The RST button is a pause button or a restart button, which can also elimi;

4. After the time of oil pump has been set, it will enter the LUB and INT cycle conversion state;

5. When ERO flashes, it means that the amount of oil is insufficient and new oil needs to be refilled to automatically eliminate the alarm;

6. When the ERP flashes, it indicates that the pressure is abnormal. It is necessary to check whether the oil pump is working properly or whether the main pipe of the oil pipe is cracked or oil leakage causes insufficient pressure;

7. There is a lock button in the computer board. Open the small switch▙, you can lock the SET button. Then you can't enter the time setting but RST can be used normally;

8. There is intermittent power-off memory function in the computer board. When open the small switch▙, it will enter the power-off memory state;

VC223 ☐ -200XB 电动润滑泵（罩极电机）

主要参数 Parameters

型 号 Model	电 压 Voltage(V)	额定转速 Speed(r/min)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VC2232-200XB	220V	2800/50Hz	18	0.35	15-20	30	2	100-150	30-1000
VC2231-200XB	110V	3360/60Hz	18	0.35	15-20	30	2	100-150	30-1000
VC2232-215XB	220V	2800/50Hz	18	0.35	15-20	30	2	100-150	30-1000

VC2232-215XB :带15KG压力开关

操作说明

1.工作时间设定：

请长按SET键见数字跳动时松开按钮，按▲▼键设定个位数时间，再按SET跳动到十位数按▲▼键设定十位数时间，再按下SET键跳动百位数，按▲▼键设定百位数时间(1-999秒)；

2.间歇时间设定：

工作时间设定完毕后按住SET键约2秒跳动到间歇时间的个位数，按▲▼键设定时间，按下SET键进入到十位数，按▲▼键设定时间，再按下SET键进入百位数，按▲▼键设定时间，(1-999分钟/小时)设定完毕后，长按SET键进入正常工作状态；

3.RST键为暂停键或启动键，也可消除压力异常报警；

4.油泵设定好时间后，进入LUB(工作)与INT(间歇)循环转换状态；

5.ERO闪烁时，表示油量不足需重新注入新油自动消除报警；

6.ERP闪烁时，表示压力异常，需检查油泵是否工作正常或油管主路是否有破裂或者漏油现象导致压力不足；

7.电脑板内设有按键锁，打开小开关⊥可锁住SET键按钮，不能进入时间设定，RST可正常使用；

8.电脑板内设有间歇时间断电记忆功能，打开小开关⊥进入断电记忆状态；

Instructions For

1. Working Time Setting:
Please long press SET button, and release the SET button when the number jumps. Press▲▼button to set single digit time, then press SET to jump to ten digits. Press▲▼button to set ten digit time. Press SET again to jump through the hundreds digit, then press▲▼button to set the hundreds digit time. (1-999 seconds);

2. Intermittent Time Setting:
After setting the working time, hold down the SET button for about 2 seconds to jump to the single digit of the intermittent time, press the ▲▼ button to set the time. Press the SET button to enter the ten digits, then press the ▲▼ button to set time. Press the SET button to enter the hundreds digit, press the ▲▼ button to set the time. (1-999 minutes / hour) After setting, long press the SET button to enter the normal working state;

3. The RST button is a pause button or a restart button, which can also elimi;

4. After the time of oil pump has been set, it will enter the LUB and INT cycle conversion state;

5. When ERO flashes, it means that the amount of oil is insufficient and new oil needs to be refilled to automatically eliminate the alarm;

6. When the ERP flashes, it indicates that the pressure is abnormal. It is necessary to check whether the oil pump is working properly or whether the main pipe of the oil pipe is cracked or oil leakage causes insufficient pressure;

7. There is a lock button in the computer board. Open the small switch⊥, you can lock the SET button. Then you can't enter the time setting but RST can be used normally;

8. There is intermittent power-off memory function in the computer board. When open the small switch⊥, it will enter the power-off memory state;
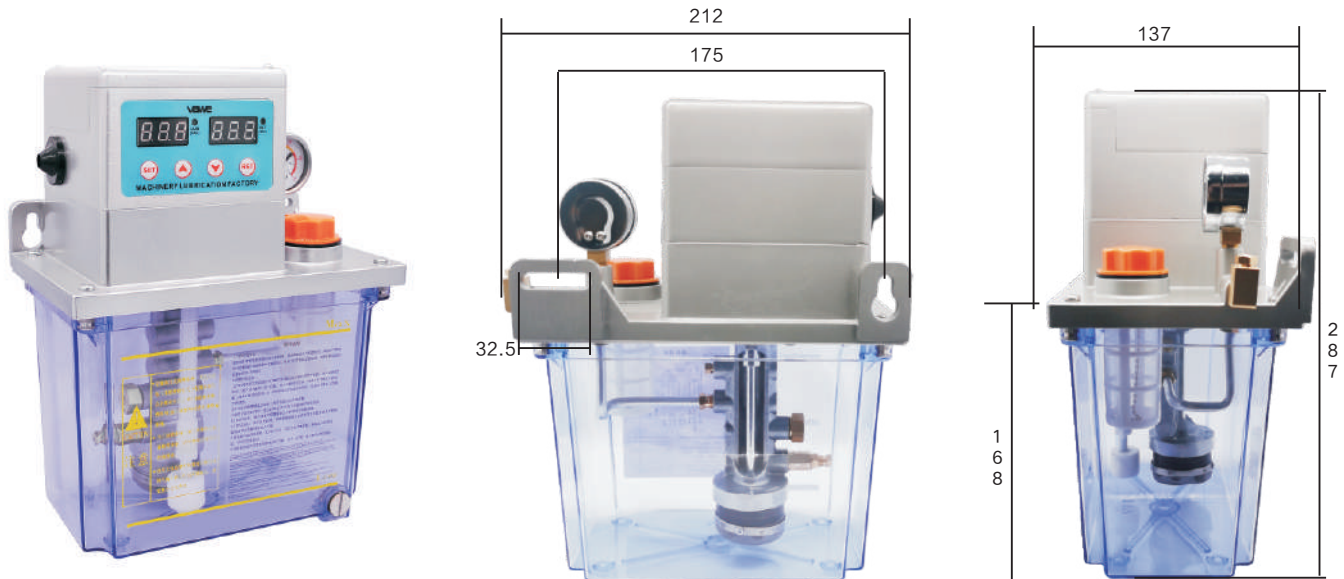
VC223 □ -400XB 电动润滑泵（罩极电机）
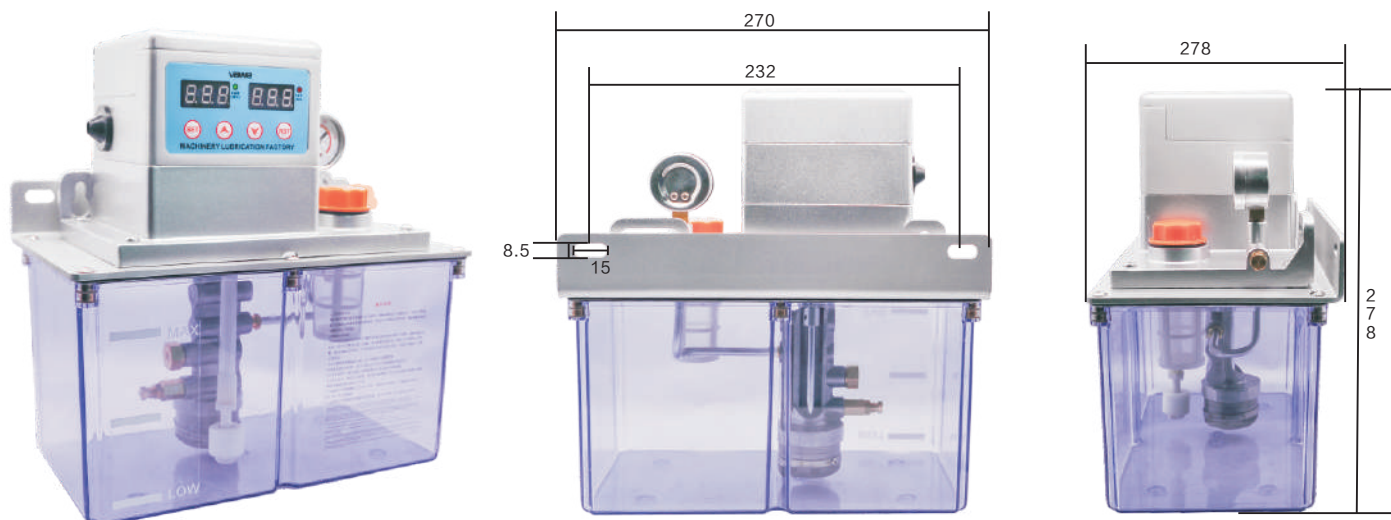
主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VC2232-400XB	220V	18	0.35	15-20	30	4	100-150	30-1000
VC2231-400XB	110V	18	0.35	15-20	30	4	100-150	30-1000
VC2232-415XB	220V	18	0.35	15-20	30	4	100-150	30-1000

VC2232-415XB :带15KG压力开关　　VC2232-400XB :不带压力开关

操作说明

1.工作时间设定：

请长按SET键见数字跳动时松开按钮，按▲▼键设定个位数时间，再按SET跳动到十位数按▲▼键设定十位数时间，再按下SET键跳动百位数，按▲▼键设定百位数时间(1-999秒)；

2.间歇时间设定：

工作时间设定完毕后按住SET键约2秒跳动到间歇时间的个位数，按▲▼键设定时间，按下SET键进入到十位数，按▲▼键设定时间，再按下SET键进入百位数，按▲▼键设定时间，(1-999分钟/小时)设定完毕后，长按SET键进入正常工作状态；

3.RST键为暂停键或启动键，也可消除压力异常报警；

4.油泵设定好时间后，进入LUB(工作)与INT(间歇)循环转换状态；

5.ERO闪烁时，表示油量不足需重新注入新油自动消除报警；

6.ERP闪烁时，表示压力异常，需检查油泵是否工作正常或油管主路是否有破裂或者漏油现象导致压力不足；

7.电脑板内设有按键锁，打开小开关⊥可锁住SET键按钮，不能进入时间设定，RST可正常使用；

8.电脑板内设有间歇时间断电记忆功能，打开小开关⊥进入断电记忆状态；

Instructions For

1. Working Time Setting:
Please long press SET button, and release the SET button when the number jumps. Press▲▼button to set single digit time, then press SET to jump to ten digits. Press▲▼button to set ten digit time. Press SET again to jump through the hundreds digit, then press ▲▼button to set the hundreds digit time. (1-999 seconds);

2. Intermittent Time Setting:
After setting the working time, hold down the SET button for about 2 seconds to jump to the single digit of the intermittent time, press the ▲▼button to set the time. Press the SET button to enter the ten digits, then press the ▲▼button to set time. Press the SET button to enter the hundreds digit, press the ▲▼button to set the time. (1-999 minutes / hour) After setting, long press the SET button to enter the normal working state;

3. The RST button is a pause button or a restart button, which can also elimi;

4. After the time of oil pump has been set, it will enter the LUB and INT cycle conversion state;

5. When ERO flashes, it means that the amount of oil is insufficient and new oil needs to be refilled to automatically eliminate the alarm;

6. When the ERP flashes, it indicates that the pressure is abnormal. It is necessary to check whether the oil pump is working properly or whether the main pipe of the oil pipe is cracked or oil leakage causes insufficient pressure;

7. There is a lock button in the computer board. Open the small switch⊥, you can lock the SET button. Then you can't enter the time setting but RST can be used normally;

8. There is intermittent power-off memory function in the computer board. When open the small switch⊥, it will enter the power-off memory state;

VC223 ☐ -1000XB 电动润滑泵（罩极电机）
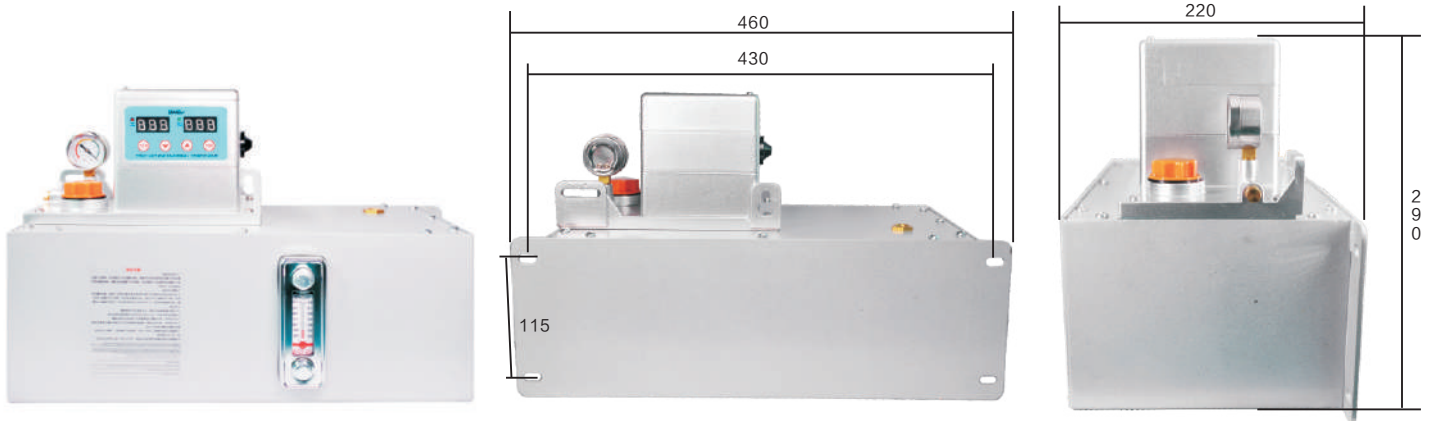
主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VC2232-1000XB	220V	18	0.35	15-20	30	10	100-150	30-1000
VC2231-1000XB	110V	18	0.35	15-20	30	10	100-150	30-1000
VC2232-1015XB	220V	18	0.35	15-20	30	10	100-150	30-1000

VC2232-1015XB :带15KG压力开关   VC2232-100XB:不带压力开关

操作说明

1.工作时间设定：

请长按SET键见数字跳动时松开按钮，按▲▼键设定个位数时间，再按SET跳动到十位数按▲▼键设定十位数时间，再按下SET键跳动百位数，按▲▼键设定百位数时间(1-999秒)；

2.间歇时间设定：

工作时间设定完毕后按住SET键约2秒跳动到间歇时间的个位数，按▲▼键设定时间，按下SET键进入到十位数，按▲▼键设定时间，再按下SET键进入百位数，按▲▼键设定时间，(1-999分钟/小时)设定完毕后，长按SET键进入正常工作状态;

3.RST键为暂停键或启动键，也可消除压力异常报警;

4.油泵设定好时间后，进入LUB(工作)与INT(间歇)循环转换状态;

5.ERO闪烁时，表示油量不足需重新注入新油自动消除报警;

6.ERP闪烁时，表示压力异常，需检查油泵是否工作正常或油管主路是否有破裂或者漏油现象导致压力不足;

7.电脑板内设有按键锁，打开小开关┻可锁住SET键按钮，不能进入时间设定，RST可正常使用;

8.电脑板内设有间歇时间断电记忆功能，打开小开关┻进入断电记忆状态;

Instructions For

1. Working Time Setting:

Please long press SET button, and release the SET button when the number jumps. Press▲▼button to set single digit time, then press SET to jump to ten digits. Press▲▼ button to set ten digit time. Press SET again to jump through the hundreds digit, then press ▲▼ button to set the hundreds digit time. (1-999 seconds);

2. Intermittent Time Setting:

After setting the working time, hold down the SET button for about 2 seconds to jump to the single digit of the intermittent time, press the ▲▼ button to set the time. Press the SET button to enter the ten digits, then press the ▲▼ button to set time. Press the SET button to enter the hundreds digit, press the ▲▼ button to set the time. (1-999 minutes / hour) After setting, long press the SET button to enter the normal working state;

3. The RST button is a pause button or a restart button, which can also elimi;

4. After the time of oil pump has been set, it will enter the LUB and INT cycle conversion state;

5. When ERO flashes, it means that the amount of oil is insufficient and new oil needs to be refilled to automatically eliminate the alarm;

6. When the ERP flashes, it indicates that the pressure is abnormal. It is necessary to check whether the oil pump is working properly or whether the main pipe of the oil pipe is cracked or oil leakage causes insufficient pressure;

7. There is a lock button in the computer board. Open the small switch┻, you can lock the SET button. Then you can't enter the time setting but RST can be used normally;

8. There is intermittent power-off memory function in the computer board. When open the small switch┻, it will enter the power-off memory state;

VL223 ☐ -200XB 电动润滑泵（异步电机）
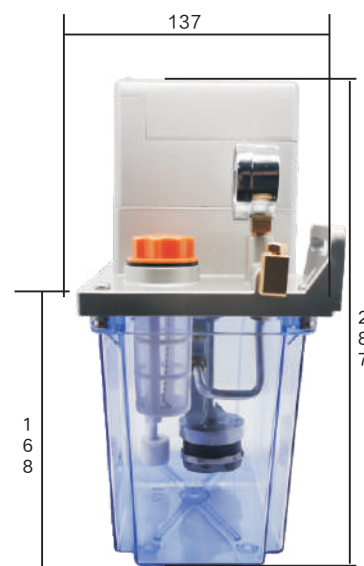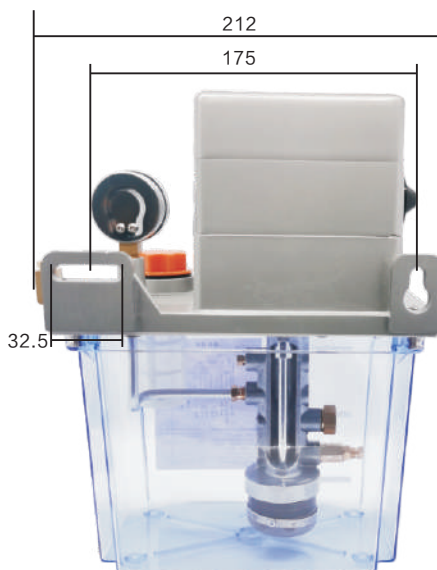
型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VL2232-200XB	220V	35	0.35	15-20	40	2	200-300	30-00#
VL2231-200XB	110V	35	0.35	15-20	40	2	200-300	30-00#
VL2232-215XB	220V	35	0.35	15-20	40	2	200-300	30-00#

油脂配1350转电机　稀油配2800转电机　　VL2232-215XB :带15KG压力开关　　VL2232-200XB :不带压力开关

操作说明

1.工作时间设定：

请长按SET键见数字跳动时松开按钮，按▲▼键设定个位数时间，再按SET跳动到十位数按▲▼键设定十位数时间，再按下SET键跳动百位数，按▲▼键设定百位数时间(1-999秒)；

2.间歇时间设定：

工作时间设定完毕后按住SET键约2秒跳动到间歇时间的个位数，按▲▼键设定时间，按下SET键进入到十位数，按▲▼键设定时间，再按下SET键进入百位数，按▲▼键设定时间，(1-999分钟/小时)设定完毕后，长按SET键进入正常工作状态；

3.RST键为暂停键或启动键，也可消除压力异常报警；

4.油泵设定好时间后，进入LUB(工作)与INT(间歇)循环转换状态；

5.ERO闪烁时，表示油量不足需重新注入新油自动消除报警；

6.ERP闪烁时，表示压力异常，需检查油泵是否工作正常或油管主路是否有破裂或者漏油现象导致压力不足；

7.电脑板内设有按键锁，打开小开关⌐可锁住SET键按钮，不能进入时间设定，RST可正常使用；

8.电脑板内设有间歇时间断电记忆功能，打开小开关⌐进入断电记忆状态；

Instructions For

1. Working Time Setting:
Please long press SET button, and release the SET button when the number jumps. Press▲▼button to set single digit time, then press SET to jump to ten digits. Press▲▼button to set ten digit time. Press SET again to jump through the hundreds digit, then press ▲▼button to set the hundreds digit time. (1-999 seconds);

2. Intermittent Time Setting:
After setting the working time, hold down the SET button for about 2 seconds to jump to the single digit of the intermittent time, press the ▲▼ button to set the time. Press the SET button to enter the ten digits, then press the ▲▼ button to set time. Press the SET button to enter the hundreds digit, press the ▲▼ button to set the time. (1-999 minutes / hour) After setting, long press the SET button to enter the normal working state;

3. The RST button is a pause button or a restart button, which can also elimi;

4. After the time of oil pump has been set, it will enter the LUB and INT cycle conversion state;

5. When ERO flashes, it means that the amount of oil is insufficient and new oil needs to be refilled to automatically eliminate the alarm;

6. When the ERP flashes, it indicates that the pressure is abnormal. It is necessary to check whether the oil pump is working properly or whether the main pipe of the oil pipe is cracked or oil leakage causes insufficient pressure;

7. There is a lock button in the computer board. Open the small switch⌐, you can lock the SET button. Then you can't enter the time setting but RST can be used normally;

8. There is intermittent power-off memory function in the computer board. When open the small switch⌐, it will enter the power-off memory state;

VL223 ☐ -400XB 电动润滑泵（异步电机）
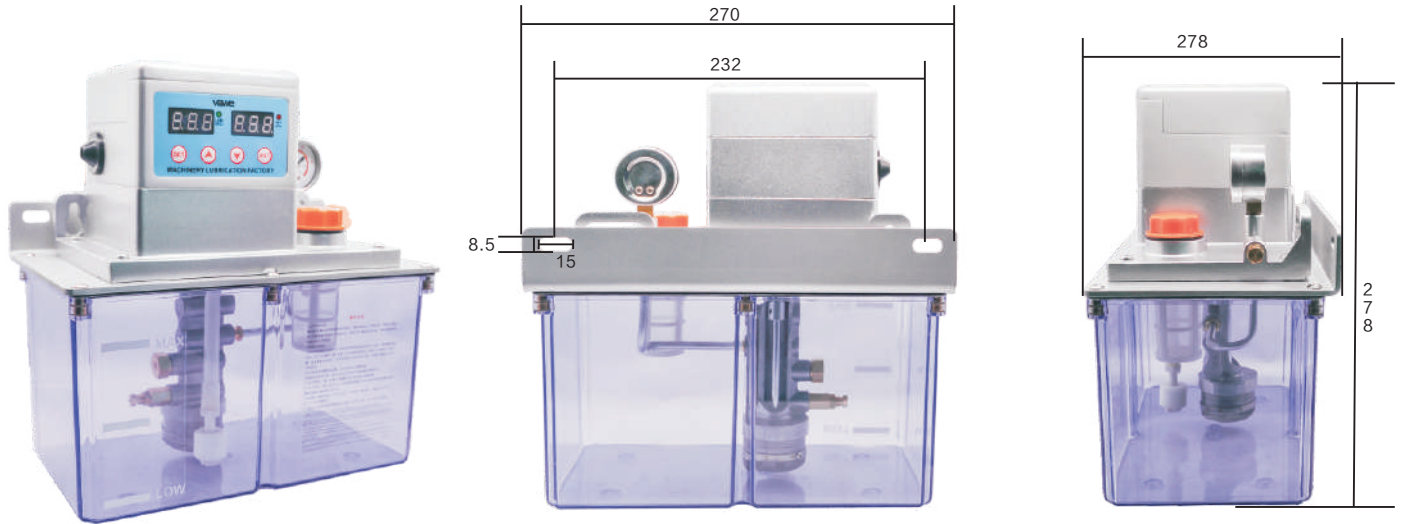
主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VL2232-400XB	220V	35	0.35	15-20	40	4	200-300	30-00#
VL2231-400XB	110V	35	0.35	15-20	40	4	200-300	30-00#
VL2232-415XB	220V	35	0.35	15-20	40	4	200-300	30-00#

VL2232-415XB :带15KG压力开关　　VL2232-400XB :不带压力开关

操作说明

1.工作时间设定：

请长按SET键见数字跳动时松开按钮，按▲▼键设定个位数时间，再按SET跳动到十位数按▲▼键设定十位数时间，再按下SET键跳动百位数，按▲▼键设定百位数时间(1-999秒)；

2.间歇时间设定：

工作时间设定完毕后按住SET键约2秒跳动到间歇时间的个位数，按▲▼键设定时间，按下SET键进入到十位数，按▲▼键设定时间，再按下SET键进入百位数，按▲▼键设定时间，(1-999分钟/小时)设定完毕后，长按SET键进入正常工作状态；

3.RST键为暂停键或启动键，也可消除压力异常报警；

4.油泵设定好时间后，进入LUB(工作)与INT(间歇)循环转换状态；

5.ERO闪烁时，表示油量不足需重新注入新油自动消除报警；

6.ERP闪烁时，表示压力异常，需检查油泵是否工作正常或油管主路是否有破裂或者漏油现象导致压力不足；

7.电脑板内设有按键锁，打开小开关⊥可锁住SET键按钮，不能进入时间设定，RST可正常使用；

8.电脑板内设有间歇时间断电记忆功能，打开小开关⊥进入断电记忆状态；

Instructions For

1. Working Time Setting:
Please long press SET button, and release the SET button when the number jumps. Press▲▼button to set single digit time, then press SET to jump to ten digits. Press▲▼button to set ten digit time. Press SET again to jump through the hundreds digit, then press ▲▼ button to set the hundreds digit time. (1-999 seconds);

2. Intermittent Time Setting:
After setting the working time, hold down the SET button for about 2 seconds to jump to the single digit of the intermittent time, press the ▲▼ button to set the time. Press the SET button to enter the ten digits, then press the ▲▼ button to set time. Press the SET button to enter the hundreds digit, press the ▲▼ button to set the time. (1-999 minutes / hour) After setting, long press the SET button to enter the normal working state;

3. The RST button is a pause button or a restart button, which can also elimi;

4. After the time of oil pump has been set, it will enter the LUB and INT cycle conversion state;

5. When ERO flashes, it means that the amount of oil is insufficient and new oil needs to be refilled to automatically eliminate the alarm;

6. When the ERP flashes, it indicates that the pressure is abnormal. It is necessary to check whether the oil pump is working properly or whether the main pipe of the oil pipe is cracked or oil leakage causes insufficient pressure;

7. There is a lock button in the computer board. Open the small switch⊥, you can lock the SET button. Then you can't enter the time setting but RST can be used normally;

8. There is intermittent power-off memory function in the computer board. When open the small switch⊥, it will enter the power-off memory state;

VL223 □ -1000XB 电动润滑泵（异步电机）
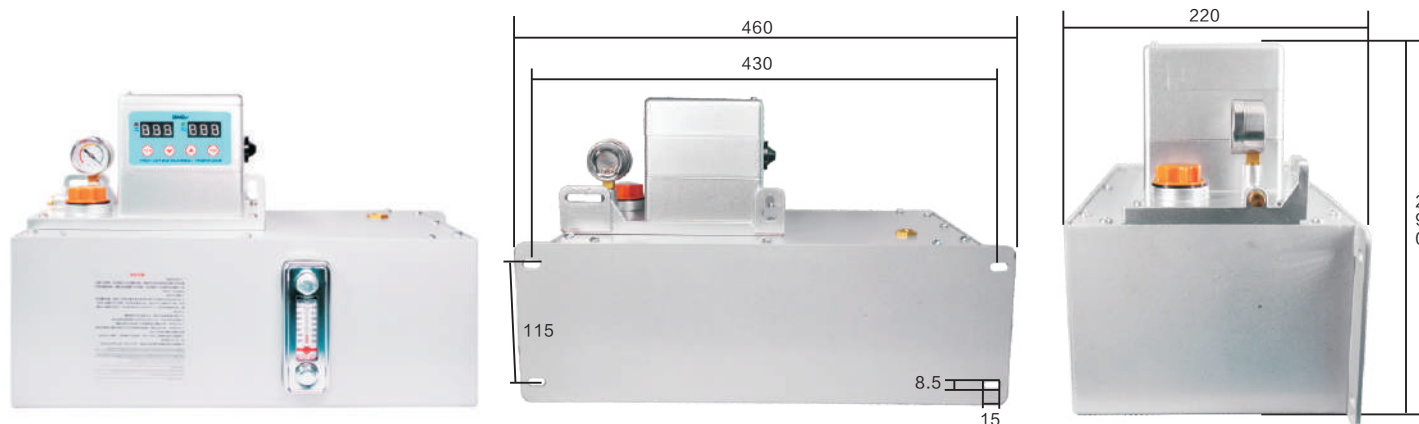
主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VL2232-1000XB	220V	35	0.35	15-20	40	10	200-300	30-00#
VL2231-1000XB	110V	35	0.35	15-20	40	10	200-300	30-00#
VL2232-1015XB	220V	35	0.35	15-20	40	10	200-300	30-00#

VL2232-1015XB :带15KG压力开关   VL2232-1000XB :不带压力开关

操作说明

1.工作时间设定：

请长按SET键见数字跳动时松开按钮，按▲▼键设定个位数时间，再按SET跳动到十位数按▲▼键设定十位数时间，再按下SET键跳动百位数，按▲▼键设定百位数时间(1-999秒)；

2.间歇时间设定：

工作时间设定完毕后按住SET键约2秒跳动到间歇时间的个位数，按▲▼键设定时间，按下SET键进入到十位数，按▲▼键设定时间，再按下SET键进入百位数，按▲▼键设定时间，(1-999分钟/小时)设定完毕后，长按SET键进入正常工作状态；

3.RST键为暂停键或启动键，也可消除压力异常报警；

4.油泵设定好时间后，进入LUB(工作)与INT(间歇)循环转换状态；

5.ERO闪烁时，表示油量不足需重新注入新油自动消除报警；

6.ERP闪烁时，表示压力异常，需检查油泵是否工作正常或油管主路是否有破裂或者漏油现象导致压力不足；

7.电脑板内设有按键锁，打开小开关⌐可锁住SET键按钮，不能进入时间设定，RST可正常使用；

8.电脑板内设有间歇时间断电记忆功能，打开小开关⌐进入断电记忆状态；

Instructions For

1. Working Time Setting:
Please long press SET button, and release the SET button when the number jumps. Press▲▼button to set single digit time, then press SET to jump to ten digits. Press▲▼button to set ten digit time. Press SET again to jump through the hundreds digit, then press ▲▼ button to set the hundreds digit time. (1-999 seconds);

2. Intermittent Time Setting:
After setting the working time, hold down the SET button for about 2 seconds to jump to the single digit of the intermittent time, press the ▲▼ button to set the time. Press the SET button to enter the ten digits, then press the ▲▼ button to set time. Press the SET button to enter the hundreds digit, press the ▲▼ button to set the time. (1-999 minutes / hour) After setting, long press the SET button to enter the normal working state;

3. The RST button is a pause button or a restart button, which can also elimi;

4. After the time of oil pump has been set, it will enter the LUB and INT cycle conversion state;

5. When ERO flashes, it means that the amount of oil is insufficient and new oil needs to be refilled to automatically eliminate the alarm;

6. When the ERP flashes, it indicates that the pressure is abnormal. It is necessary to check whether the oil pump is working properly or whether the main pipe of the oil pipe is cracked or oil leakage causes insufficient pressure;

7. There is a lock button in the computer board. Open the small switch⌐, you can lock the SET button. Then you can't enter the time setting but RST can be used normally;

8. There is intermittent power-off memory function in the computer board. When open the small switch⌐, it will enter the power-off memory state;

VG523 ☐ -400XB 电动润滑泵
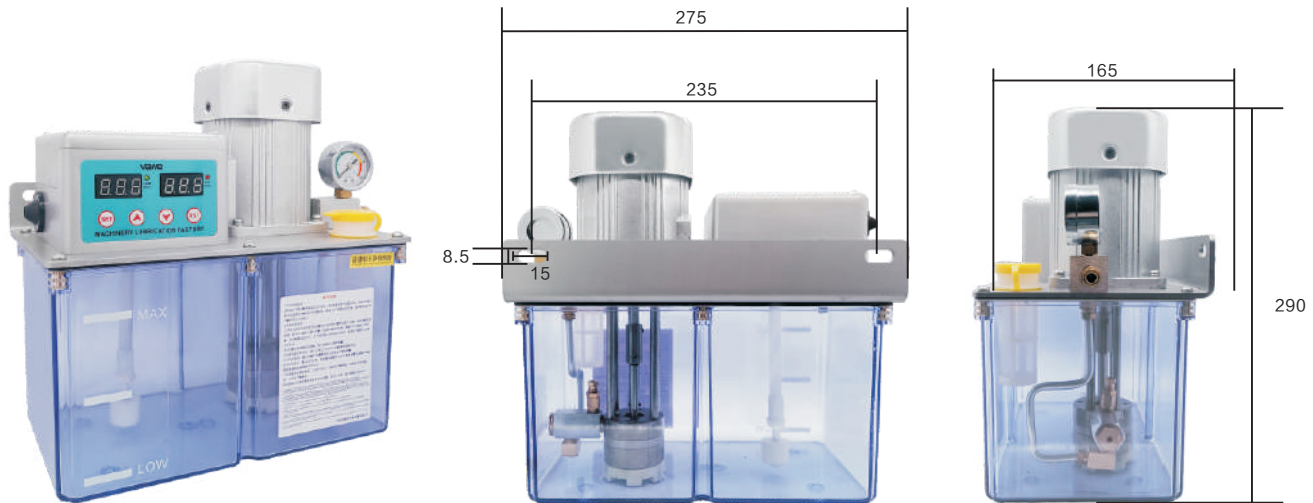
275
235
8.5
15
165
290

主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VG5232-400XB	220V	60	0.35	15-20	60	4	300-500	30-00#
VG5233-400XB	380V	90	0.35	15-20	60	4	300-500	30-00#
VG5232-410XB	220V	60	0.35	15-20	60	4	300-500	30-00#

*VG5232-415XB:带压力开关

操作说明

1.工作时间设定：

请长按SET键见数字跳动时松开按钮，按▲▼键设定个位数时间，再按SET跳动到十位数按▲▼键设定十位数时间，再按下SET键跳动百位数，按▲▼键设定百位数时间(1-999秒)；

2.间歇时间设定：

工作时间设定完毕后按住SET键约2秒跳动到间歇时间的个位数，按▲▼键设定时间，按下SET键进入到十位数，按▲▼键设定时间，再按下SET键进入百位数，按▲▼键设定时间，(1-999分钟/小时)设定完毕后，长按SET键进入正常工作状态；

3.RST键为暂停键或启动键，也可消除压力异常报警；

4.油泵设定好时间后，进入LUB(工作)与INT(间歇)循环转换状态；

5.ERO闪烁时，表示油量不足需重新注入新油自动消除报警；

6.ERP闪烁时，表示压力异常，需检查油泵是否工作正常或油管主路是否有破裂或者漏油现象导致压力不足；

7.电脑板内设有按键锁，打开小开关⌐可锁住SET键按钮，不能进入时间设定，RST可正常使用；

8.电脑板内设有间歇时间断电记忆功能，打开小开关⌐进入断电记忆状态；

Instructions For

1. Working Time Setting:
Please long press SET button, and release the SET button when the number jumps. Press▲▼button to set single digit time, then press SET to jump to ten digits. Press▲▼button to set ten digit time. Press SET again to jump through the hundreds digit, then press ▲▼button to set the hundreds digit time. (1-999 seconds);

2. Intermittent Time Setting:
After setting the working time, hold down the SET button for about 2 seconds to jump to the single digit of the intermittent time, press the ▲▼button to set the time. Press the SET button to enter the ten digits, then press the ▲▼button to set time. Press the SET button to enter the hundreds digit, press the ▲▼button to set the time. (1-999 minutes / hour) After setting, long press the SET button to enter the normal working state;

3. The RST button is a pause button or a restart button, which can also elimi;

4. After the time of oil pump has been set, it will enter the LUB and INT cycle conversion state;

5. When ERO flashes, it means that the amount of oil is insufficient and new oil needs to be refilled to automatically eliminate the alarm;

6. When the ERP flashes, it indicates that the pressure is abnormal. It is necessary to check whether the oil pump is working properly or whether the main pipe of the oil pipe is cracked or oil leakage causes insufficient pressure;

7. There is a lock button in the computer board. Open the small switch⌐, you can lock the SET button. Then you can't enter the time setting but RST can be used normally;

8. There is intermittent power-off memory function in the computer board. When open the small switch⌐, it will enter the power-off memory state;

VG520 □ -400X 电动润滑泵(异步电机)

性能和特点 Performance & Characteristics

- 安装方便，接线简单;
- 供油时间由主机电脑PLC控制与设定;
- 采用特殊合金钢齿轮泵，具有输出压力稳定，噪音小，寿命长;
- 具有液位不足侦测功能;
- 具有自动脱压功能，与检知容积式分配器使用可充分发挥润滑效果;
- 异步电机可连续工作适用于工作时间较长的设备;

- Easy to install and easy to connect;
- Oil supply time is controlled and set by the host computer PLC;
- Special alloy steel gear pump with stable output pressure, low noise and long life;
- Low level detection;
- It has automatic decompression function, and the use of the detection volume distributor can give full play to the lubrication effect.
- Asynchronous motor can work continuously and is suitable for equipment with long working time.

主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VG5202-400X	220V	60	0.35	15-20	60	4	300-500	30-00#
VG5203-400X	380V	90	0.35	15-20	60	4	300-500	30-00#
VG5202-410X	220V	60	0.35	15-20	60	4	300-500	30-00#

* VG5202-415X:带压力开关

接线图 Connetion diagram
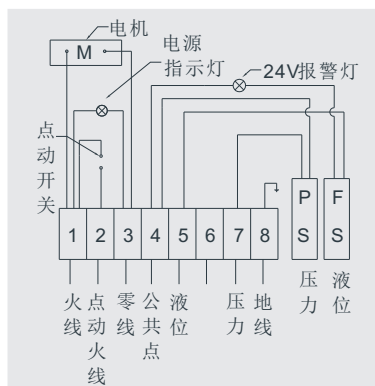
24V报警(默认)
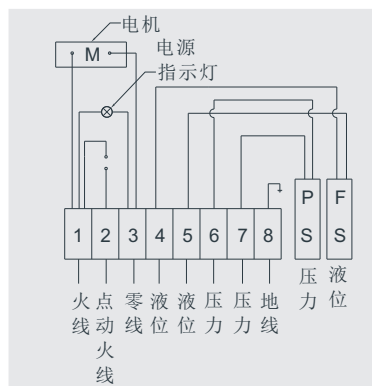
单灯液位独立压力开关独立
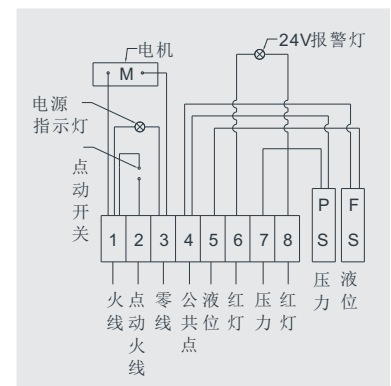
震德式接线

VG520 □ -200X 电动润滑泵(异步电机)

210
170
8.5
15

130
300

性能和特点 Performance & Characteristics

- 安装方便，接线简单；
- 供油时间由主机电脑PLC控制与设定；
- 采用特殊合金钢齿轮泵，具有输出压力稳定，噪音小，寿命长；
- 具有液位不足侦测功能；
- 具有自动脱压功能，与检知容积式分配器使用可充分发挥润滑效果；
- 异步电机可连续工作适用于工作时间较长的设备；

- Easy to install and easy to connect;
- Oil supply time is controlled and set by the host computer PLC;
- Special alloy steel gear pump with stable output pressure, low noise and long life;
- Low level detection;
- It has automatic decompression function, and the use of the detection volume distributor can give full play to the lubrication effect.
- Asynchronous motor can work continuously and is suitable for equipment with long working time.

主要参数 Parameters

型 号 Model	电 压 Voltage(V)	输出功率 Puwer(W)	电 流 (A)	额定压力 Kgf(cm²)	最大压力 Kgf(cm²)	油箱容积 Oill tank capacity(L)	吐出量 cc/min	使用粘度 c/st
VG5202-200X	220V	60	0.35	15-20	60	2	300-500	30-00#
VG5203-200X	380V	90	0.35	15-20	60	2	300-500	30-00#
VG5202-210X	220V	60	0.35	15-20	60	2	300-500	30-00#

接线图 Connetion diagram

* VG5202-215X:带压力开关
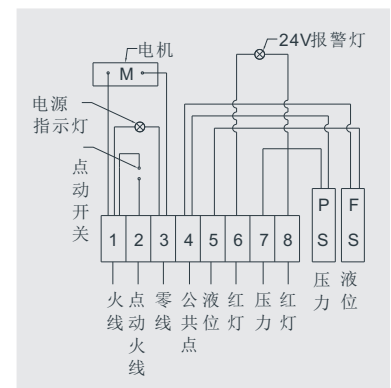
24V报警(默认)   单灯液位独立压力开关独立   震德式接线

EYW 喷雾器 EYW Sprayer

EYW-1　　　　　EYW-2

標准长度 Standard length(240)
气体调节阀 Gas adjustment valve
液体调节阀 Liquid adjustment valve
液体输入口 Liquid input
气体输入口 Gas input
BPV型

EYW- 型号编码

EYW-□□-□□□□-□□

万向曲管类型
Types of universal bent pipe

| 1 | 金属 Metal |
| 2 | 塑料 Plastic |

标准管长
Standard pipe length

| 240 | 240mm |
| | 其他长度可定制 Other lengths can be customized |

液体输入管径
Liquid input pipe diameter

| 4 | Φ4 |
| 6 | Φ6 |

气体输入管径
Gas input caliber

4	Φ4
6	Φ6
8	Φ8

液体输入口接头类型
liquid input port joint type

| T | 气动直接头 Pneumatic straight joint |
| S | 铜快速直接头 Copper quick straight joint |

气体输入口接头类型
Gas input port jpont type

| T | 气体直接头 Gas direct joint |
| S | 铜快速直接头 Copper quick straight joint |

止逆伐
Check calve

| Z | 带止逆伐 With check calve |
| 空白 Blank | 不带止逆伐 Without check calve |

雾化类型
Atomizing types

| A | 大雾化，无限位调针 Bing Atomzing types |
| B | 微量雾化，有限位调针 Micro Atomizing,no limit transfer needle |

注意事项 Attentions

- 需使用清洁之液体;
- 请勿使用腐蚀性之液体;
- 气压源气压范围0.5-0.7MPa（雾化效果与气量，气压有关联）;
- 适用液体粘度：0-68cSt;

- Use clean liquid.
- Do nor use corrosicve liquids.
- The pressure range of the pressure source is 0.5-0.7mpa.
  (the atomizing effect is related to air volume and air pressure)
- Applicable to liquid viscosity :0-68cst.

EYW耗油量测试结果 Testing results of EYW oil consumption

液体品类 Liquid category	流量范围 Flow range（cc/min）	气体压力 Gas pressure (0.5MPa)
水，酒精 Water , alcohol	0~30	
10号高速主轴油 No.10 hight -speed main shaft oil	0~25	

性能和特点 Performance & Characteristics

此产品应用真空自呼吸之原理，使液体经由喷嘴和空气混合雾化，喷射至加工件，刀具或轴承等润滑点。冷却效果佳，并提供润滑；除屑；清洁等功能，以提升生产效率及加工品质，减少机械刀具之损耗。

This product applies the principle of vacuum self-respiration to atomize the liquid through the nozzle and air and spray it to the lubrication point such as workpiece, tool or bearing. Good cooling effect, and provide lubrication, chip removal, cleaning and other functions to improve production efficiency and machining quality, reduce the loss of mechanical tools.

使用场合 Precautions

车床，钻床，铣床，磨床，攻牙机，刀具研磨机，CNC机床，冲床，锯床，木工机械，送料机等。

Lathes, drilling machines, milling machines, grinders machines, tapping machines, tool grinders machines, CNC machine tools, punch, saw, woodworking machinery,feeder, etc.

EYW- 经济款喷雾器 Economical sprayer

VYW-A油雾润滑泵

Oil mist lubrication pump
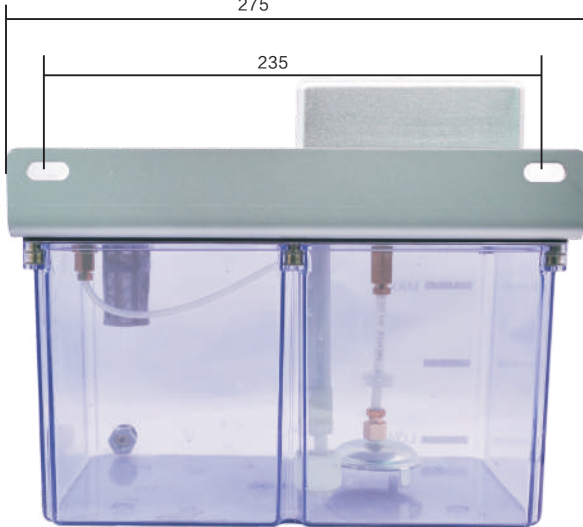
275
235
165
235

VYW- A ☐☐-☐☐☐

控制器类型
Control types

A	PLC
B	数显 Digital display
C	无控制器 No controller

喷雾器个数
Number sprayer

1	1个Each
2	2个Each
3	3个Each
4	4个Each

油箱容积
Oil tank Volume

1	1.5L
2	2L
3	4L

液位开关
Liquid level switch

1	上通电 Upper power supply
2	下通电 Upper power supply
3	无液位开关 Liquid level switch unavailable

配管长度
Piping length

2	2M
3	3M
4	4M
5	5M

输入电压
Input voltages

1	单相110V Single phase
2	单相220V Single phase
3	DC12V
4	DC24V

性能和特点 Performance & Characteristics

- 系统设有调压阀和电磁阀，对气源进行精确控制，与润滑液充分混合雾化，减小机械刀具之损耗，冷却润滑效果更佳。
- A.数显控制：冷却润滑时间和间歇均可调整。
  （内设有锁键功能，可锁定设定后的润滑和间歇时间）系统时间可设定，"LUB"润滑时间：1-999（秒），"INT"间歇时间：1-999(分钟/小时)
- B.PLC控制：冷却润滑时间和间歇时间由外部PLC控制。
- C.冷却润滑时间和间歇时间无需设定
- 设有液压开关、当冷却润滑液不足时蜂鸣器发出报警信号并将异常信号输出（数显液位不足时显示ERO）
- 面板指示灯可显示出润滑和间歇状态
- 系统建议使用气源压力0.4~0.6Mpa
- 默认气体和液体管直径为6mm
- 配合EYW自吸式冷却润滑喷雾器使用

Performance and characteristics：
- The system is equipped with pressure regulating valve and solenoid valve, which can precisely control the air source and atomize with the lubricating fluid to reduce the loss of the mechanical cutting tools and achieve better cooling and lubrication effect.
- A. Digital display control: both cooling and lubrication time and intermittent can be adjusted.System time can be set," LUB" lubrication time: 1-999(seconds), "INT" interval time: 1-999(min/h)
- B.lc control: cooling and lubrication time and interval time are controlled by external PLC.
- C. No setting is required for cooling and lubrication time and interval time
- Equipped with hydraulic switch, when the cooling lubricant is insufficient, the buzzer will send an alarm signal and output the abnormal signal (ERO will be displayed when the liquid level is insufficient for digital display).
- Panel indicator lights indicate lubrication and intermittent conditions
- The system is recommended to use an air source pressure of 0.4~ 0.6mpa
- The default gas and liquid tube diameter is 6mmUse with EYW self – priming cooling lubrication atomizer

VYW-B油雾润滑泵

Oil mist lubrication pump

275
235

165

235

VYW- B ☐☐-☐☐☐

控制器类型 Control types		
A	PLC	
B	数显 Digital display	
C	无控制器 No controller	

喷雾器个数 Number sprayer		
1	1个Each	
2	2个Each	
3	3个Each	
4	4个Each	

油箱容积 Oil tank Volume		
1	1.5L	
2	2L	
3	4L	

液位开关 Liquid level switch		
1	上通电 Upper power supply	
2	下通电 Upper power supply	
3	无液位开关 Liquid level switch unavailable	

配管长度 Piping length		
2	2M	
3	3M	
4	4M	
5	5M	

输入电压 Input voltages		
1	单相110V	Single phase
2	单相220V	Single phase
3	DC12V	
4	DC24V	

性能和特点 Performance & Characteristics

- 系统设有调压阀和电磁阀，对气源进行精确控制，与润滑液充分混合雾化，减小机械刀具之损耗，冷却润滑效果更佳。
- A.数显控制：冷却润滑时间和间歇均可调整。
  （内设有锁键功能，可锁定设定后的润滑和间歇时间）系统时间可设定，"LUB"润滑时间：1~999（秒），"INT"间歇时间：1~999(分钟/小时)
- B.PLC控制：冷却润滑时间和间歇时间由外部PLC控制。
- C.冷却润滑时间和间歇时间无需设定
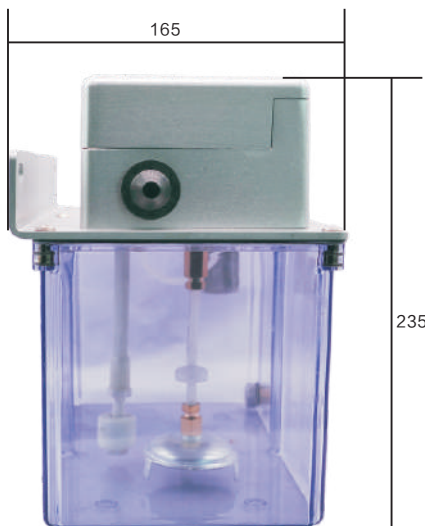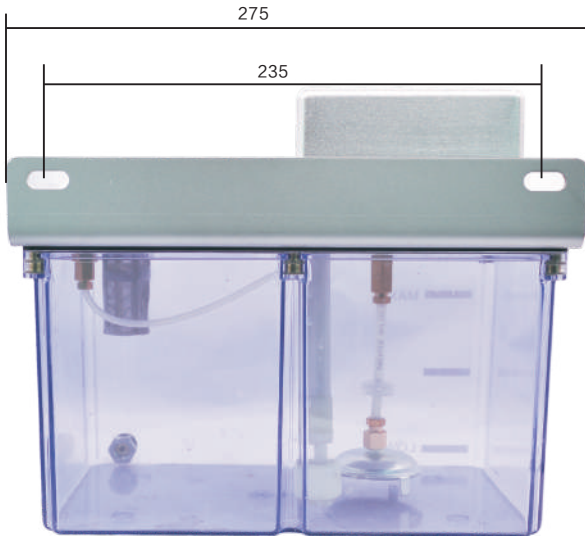- 设有液压开关、当冷却润滑液不足时蜂鸣器发出报警信号并将异常信号输出（数显液位不足时显示ERO）
- 面板指示灯可显示出润滑和间歇状态
- 系统建议使用气源压力0.4~0.6Mpa
- 默认气体和液体管直径为6mm
- 配合EYW自吸式冷却润滑喷雾器使用

Performance and characteristics：

- The system is equipped with pressure regulating valve and solenoid valve, which can precisely control the air source and atomize with the lubricating fluid to reduce the loss of the mechanical cutting tools and achieve better cooling and lubrication effect.
- A. Digital display control: both cooling and lubrication time and intermittent can be adjusted.System time can be set," LUB" lubrication time: 1~999(seconds), "INT" interval time: 1~999(min/h)
- B.lc control: cooling and lubrication time and interval time are controlled by external PLC.
- C. No setting is required for cooling and lubrication time and interval time
- Equipped with hydraulic switch, when the cooling lubricant is insufficient, the buzzer will send an alarm signal and output the abnormal signal (ERO will be displayed when the liquid level is insufficient for digital display).
- Panel indicator lights indicate lubrication and intermittent conditions
- The system is recommended to use an air source pressure of 0.4~ 0.6mpa
- The default gas and liquid tube diameter is 6mmUse with EYW self – priming cooling lubrication atomizer

A-8 （手摇泵）

Manual Lubricator

安装尺寸 Instal Lation Size

性能和特点 Performance & Characteristics

- 柱塞式结构，用于稀油润滑。
- 手动操作，拉出手柄时排油，手柄复位时储油。
- 两个出油口可同时或任选一个出油。
- 配有树脂油标，可方便观察油位。

- Fox manual operation,pull handle discharge,handle reset reservoir.
- Fox plunger type structure,used for thin oil luercation.
- Two oil outlet can at the same time or optional a outlet.
- Fox is equipped with resin oil mark,can be easily observed oil level.

安装尺寸 Instal Lation Size
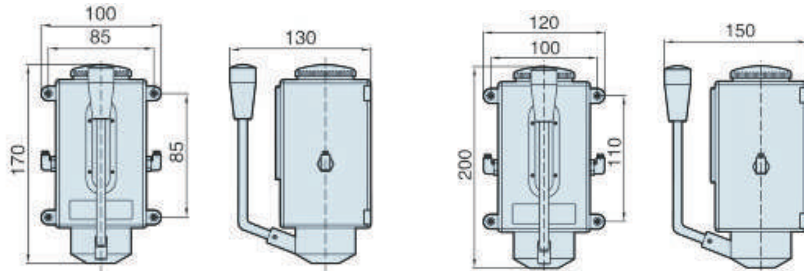
主要参数 Parameters

型 号 Model	吐出量 cc/min	最大吐出压力 Kgf(cm²)	油箱容积 Oill Tank Capacity(mL)	吐出口径 Spit out the Caliber	吐出口数 Number of Exhales	安装尺寸 Installation Size	形 式 Form
A-8	8	15	800	φ4/φ6	2	100X110	抵抗式
A-8X	8	15	800	φ4/φ6	2	100X110	卸压式

ASG （手动油脂润滑泵）

Manual Grease Lubrication Pump

安装图

ASG-(03/05/08)

性能和特点 Performance & Characteristics
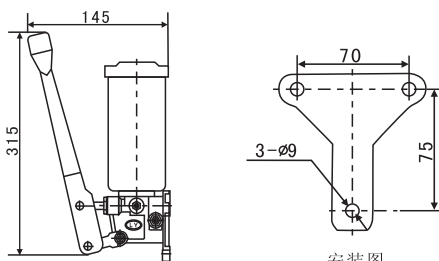
- 透明树脂油箱.
- 柱塞式结构，用于油脂润滑.
- 手动操作，拉出手柄时储油，推进时手柄排油.
- 无卸荷功能，用于抵抗式油脂润滑系统.

- Transparent resin tank.
- Plunger structure for grease lubrication.
- Manual operation, when pulling out the handle to store oil, push the handle to drain oil.
- No unloading function, used in resistant grease lubrication system.

型 号 Model	吐出量 cc/min	最大吐出压力 MPa	油箱容积 Oill Tank Capacity(mL)	吐出口径 Spit out the Caliber	吐出口数 Number of Exhales	形 式 Form
ASG-03	2	10	300	M10X1	1	抵抗/卸压
ASG-05	2	10	500	M10X1	1	抵抗/卸压
ASG-08	2	10	800	M10X1	1	抵抗/卸压

ASP-8 (手拉泵)
Pull Type Lubricator

安装尺寸 Instal Lation Size
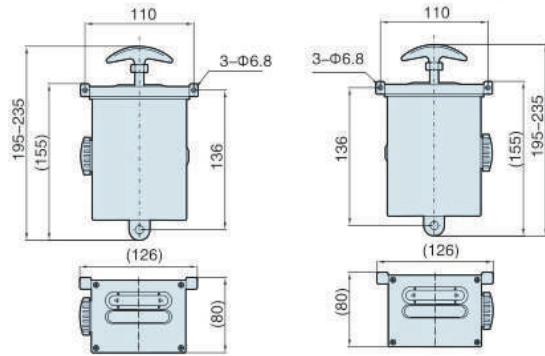
性能和特点
Performance & Characteristics

- 柱塞式结构，用于稀油润滑。
- 手动操作，拉出手柄时储油，手柄复位时排油。
- 配有树脂油标，可方便观察油位。

- Fox plunger type structure,used for thin oil luercation.
- Fox manual operation,Store oil when pressing down handle and drain oil when releasing handle.
- Fox is equipped with resin oil mark,can be easily observed oil level.

主要参数 Parameters

型 号 Model	吐出量 cc/min	最大吐出压力 Kgf(cm²)	油箱容积 Oill Tank Capacity(L)	吐出口径 Spit out the Caliber	吐出口数 Number of Exhales	形 式 Form
ASP-8R	8	3.5	0.6	M8X1	向上向下均可	抵抗式
ASP-8L	8	3.5	0.6	M8X1	向上向下均可	抵抗式

AP-5 (手压泵)
Hand Pressing Lubricator

安装尺寸 Instal Lation Size
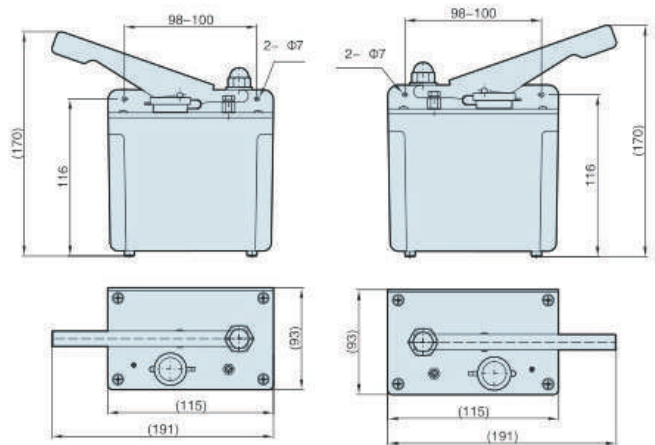
性能和特点
Performance & Characteristics

- 柱塞式结构，用于稀油润滑。
- 手动操作，压下手柄时储油，松开手柄时排油。

- Fox plunger type structure,used for thin oil luercation.
- Fox manual operation,Store oil when pressing down handle and drain oil when releasing handle.

主要参数 Parameters

型 号 Model	吐出量 cc/min	最大吐出压力 Kgf(cm²)	油箱容积 Oill Tank Capacity(L)	吐出口径 Spit out the Caliber	吐出口数 Number of Exhales	形 式 Form	备 注 Remarks
AP-5L	5	5	0.6	M8X1	1	抵抗式	左手压
AP-5M	5	5	0.6	M8X1	1	抵抗式	中手压
AP-5R	5	5	0.6	M8X1	1	抵抗式	右手压

BMA 摆线泵　BMA cycloidal pump
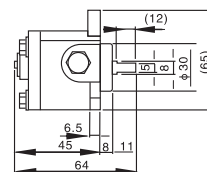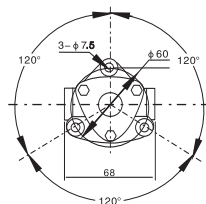
主要参数 Parameters

型号 Model	理论吐出量 Theoretical discharge	吐出量l/min 1500rpm	1800rpm	最大压力 Kgf(cm²)	最高转速 Maximum speed	进出口螺纹 G	重量 （Kg）
BMA−10A	0.8	1.2	1.4	5.0	3000	PT1/8	0.55
BMA−11A	1.5	2.2	2.7	5.0	2000	PT1/8,1/4	0.55
BMA−12A	2.5	3.7	4.5	5.0	1800	PT1/4	0.60
BMA−13A	4.5	6.7	7.5	5.0	1800	PT1/4,3/8	0.80

BMB 摆线泵　BMB cycloidal pump
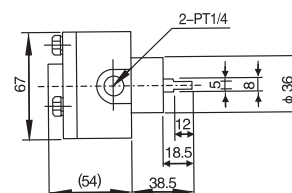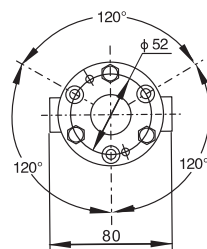
主要参数 Parameters

型号 Model	理论吐出量 Theoretical discharge	吐出量l/min 1500rpm	1800rpm	最大压力 Kgf(cm²)	最高转速 Maximum speed	进出口螺纹 G	重量 （Kg）
BMB−1FS	1.16	1.74	2.08	5.0	2000	PT1/4	1.0
BMB−2FS	1.8	2.7	3.24	5.0	2000	PT1/4	1.1
BMB−3FS	2.5	3.75	4.5	5.0	2000	PT1/4	1.2

M−BMA 马达泵　Motor pump
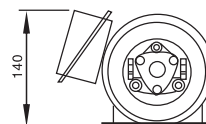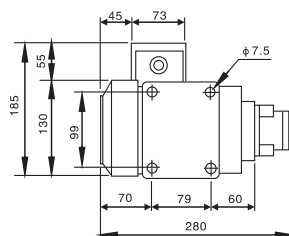
马达参数:
电压:三相380V/50HZ
转速: 1460Rpm

主要参数 Parameters

型号 Model	电机 Electric motor	摆线泵 cycloidal pump
M−BMA−10A	三相380V,50Hz,1/4H	BMA−10A
M−BMA−11A	三相380V,50Hz,1/4H	BMA−11A
M−BMA−12A	三相380V,50Hz,1/4H	BMA−12A
M−BMA−13A	三相380V,50Hz,1/4H	BMA−13A
M−BMB−1FS	三相380V,50Hz,1/4H	BMB−1FS
M−BMB−2FS	三相380V,50Hz,1/4H	BMB−2FS
M−BMB−3FS	三相380V,50Hz,1/4H	BMB−3FS

容积式定量分配器 Volumetric quantitative distributor

VAE - □ - □□□□□

出油口数
Quantily of oli outlets

02	2位 position
03	3位 position
04	4位 position
05	5位 position

第五个出油口量
oil volume of 5th oil outlet

第四个出油口量
oil volume of 4th oil outlet

第三个出油口量
oil volume of 3th oil outlet

第二个出油口量
oil volume of 2th oil outlet

第一个出油口量
oil volume of 1th oil outlet
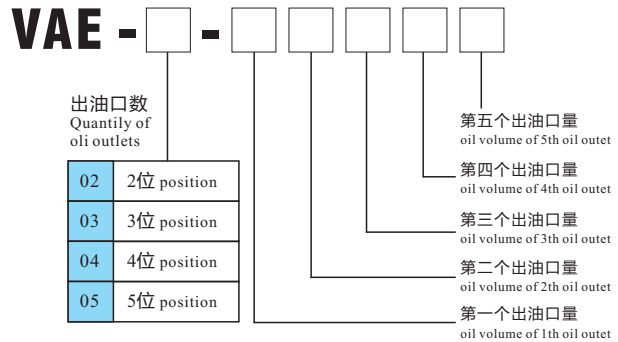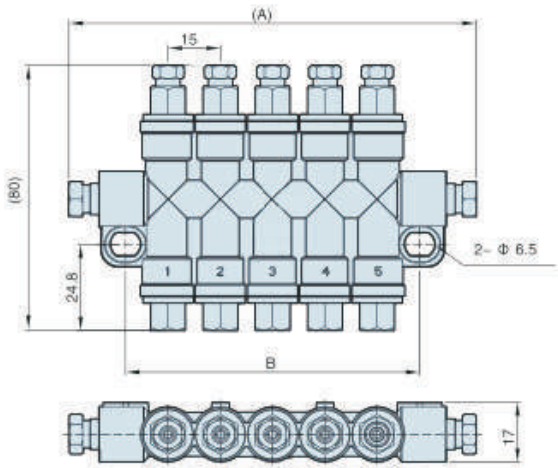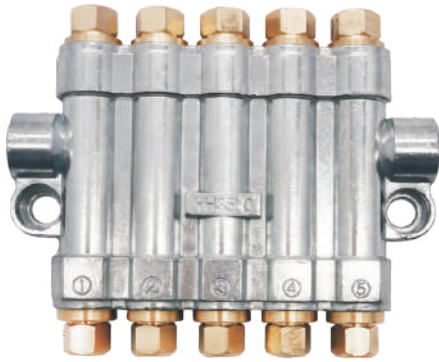
型号规格 specifications	出口数 Outlet quantity	A	B	吐出量 Throughput
VAE-02	2	69	39	
VAE-03	3	86	54	0.1/0.2/ 0.3/0.4/ 0.5
VAE-04	4	102	69	
VAE-05	5	116.5	84	

油量表示方式：（注当所有出油口油量值一样时，只用一个油量值表示）
例1：VAE-05-2表示VAE型五位第1、2、3、4、5出油口油量全部为0.2mL每次

例2：VAE-05-53235表示VAE型五位第1、2、3、4、5出油口油量分别为0.5、
0.3、0.2、0.3、0.5mL每次

The amount of oil:
(When all outlets have the same oil quantity, only oneoil quantity is used)

Example 1: VAE-05-2 indicated that the quantity of oil at the first, second, third, fourth and fifth positions was all 0.2mL each time

Example 2: VAE-05-53235 indicated that the output of the first, second, third, fourth and fifth viva was 0.5, 0.3, 0.2, 0.3 and 0.5mL each time, respectively

VAE型分配器工作原理 Working principle of VAE type distributor
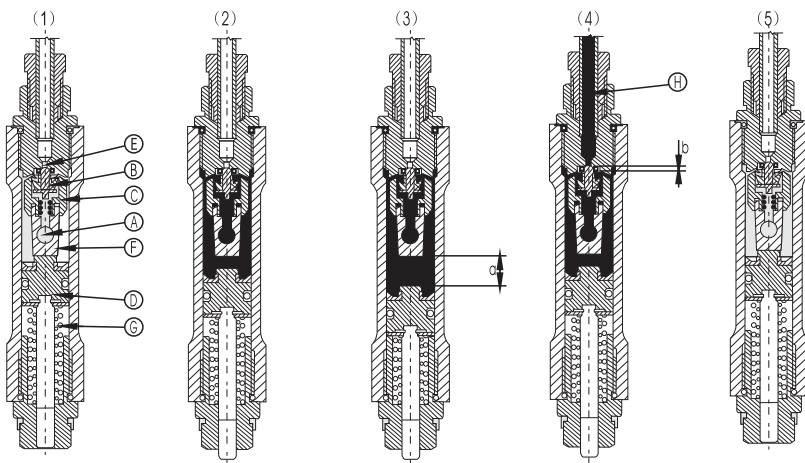
分配器工作原理图

- ⊙（1）休止中
- ⊙（2）主管加压计量中
- ⊙（3）计量完毕
- ⊙（4）油吐出中
- ⊙（5）油吐出完毕
- ⊙ A、计量活塞动作行程
- ⊙ B、伞形双向阀动作行程

　　见上图，从润滑泵压送来的油，由主管A注入，并将伞型双向阀B向上推开流入，通过通路C压送至活塞室F内。受压力油作用下计量活塞向下动作，弹簧G被压缩蓄压，从而进行计量蓄油。

　　当主管A内油压被释放（即卸压），伞型阀B因压力差而向下动作，同时开启吐出口E，于是活塞室内计量蓄油通过吐出口E进入油管H而将油输送到润滑点，信号销I当计量蓄油时突出，而供油给润滑点时缩回，从而可确认分配器动作完成情况。

加压式分配器 Pressurized distributor

A   B   C   Φ5.3

型号选型 Model selection

VAG - ☐ - ☐☐☐☐☐

出油口数
Quantily of
oli outlets

02	2位 position
03	3位 position
04	4位 position
05	5位 position
06	6位 position

第五个出油口量
oil volume of 5th oil outet

第四个出油口量
oil volume of 4th oil outet

第三个出油口量
oil volume of 3th oil outet

第二个出油口量
oil volume of 2th oil outet

第一个出油口量
oil volume of 1th oil outet
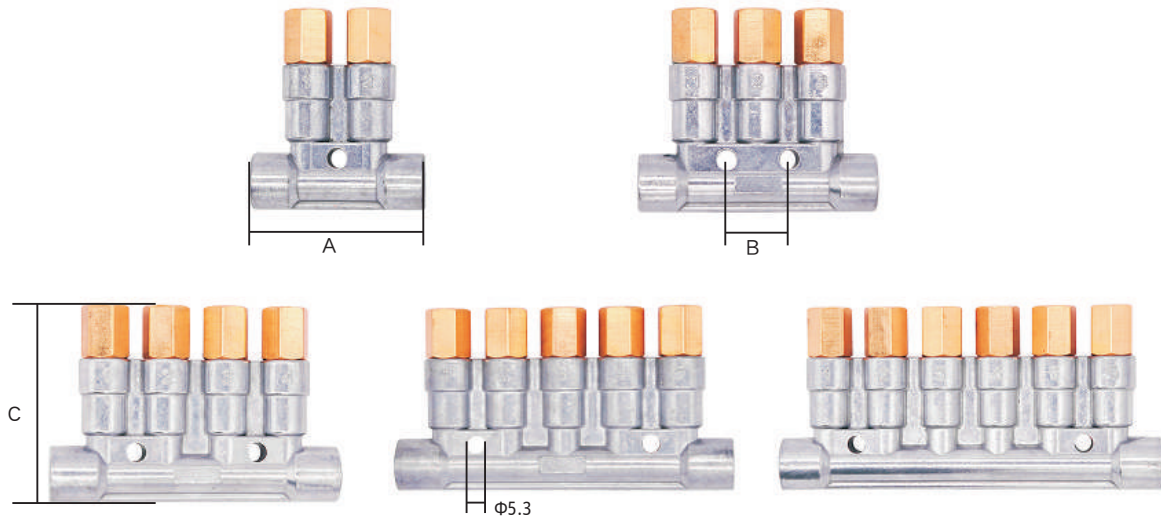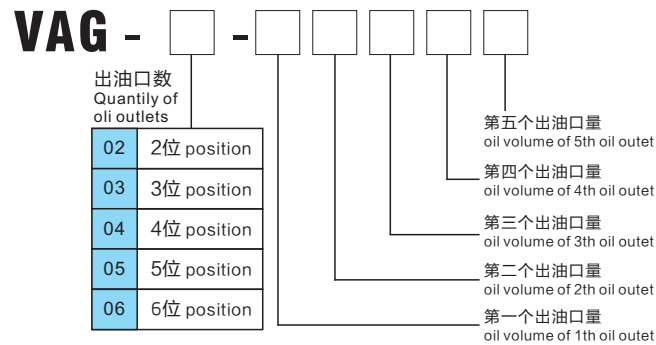
主要参数 Parameters

型号规格 specifications	出口数 Outlet quantity	A	B	吐出量 Throughput
VAG-02	2	47.5		
VAG-03	3	64.5	17	
VAG-04	4	81.5	33	0.1/0.2/ 0.3/0.4/ 0.5
VAG-05	5	98.5	51	
VAG-06	6	115	68	

性能和特点 Performance & Characteristics

加压式油脂分配器是利用螺旋的阻力控制出油大小，系统压力必须要在15kg以上方可加压油排加油，

该系统适用于000#至1#润滑油的机械;

Pressurized grease distributor is used to control the size of oil output by the resistance of the screw, and the pressure of the system must be more

than 15kg Can be pressurized oil drainage and refueling, the system is suitable for 000# to 1# lubricating oil machinery;

递进式片式分配器 Butter lubricating system

VES - ☐☐☐ **-** ☐☐☐☐

工作片数
Number of work

03	3 position
04	4 position
05	5 position

注：工作片数可定做3~10片
Note：The muber of working
pieces can be customized

循环开关方式
Cycle switch mode

空白 Blank	不带指示棒 without indicator stick
A	带机械式循环指示棒 with mechanical cycle indicator
B	带电子式循环开关指示器 with electroniccycle switch indicator
C	带微动开关式循环开关指示器 with micro switch type cycle indicator

第一个工作片油量
Second working piece of oil

10	0.1cc/cy
14	0.14cc/cy
18	0.18cc/cy
24	0.24cc/cy
30	0.3cc/cy

出油口管径
Outlet pipe diameter

| 4 | 接Φ4管 Connected to Φ4 pipe |
| 6 | 接Φ6管 Connected to Φ6 pipe |

入油口径
Enter pipe diameter

| 6 | 接Φ6管 Connected to Φ6 pipe |
| 8 | 接Φ8管 Connected to Φ8 pipe |

出油方式
Oil delivery method

| S | 单出油 Single oil |
| T | 双出油 Double oil |

第二个工作片油量
Second working piece of oil

10	0.1cc/cy
14	0.14cc/cy
18	0.18cc/cy
24	0.24cc/cy
30	0.3cc/cy
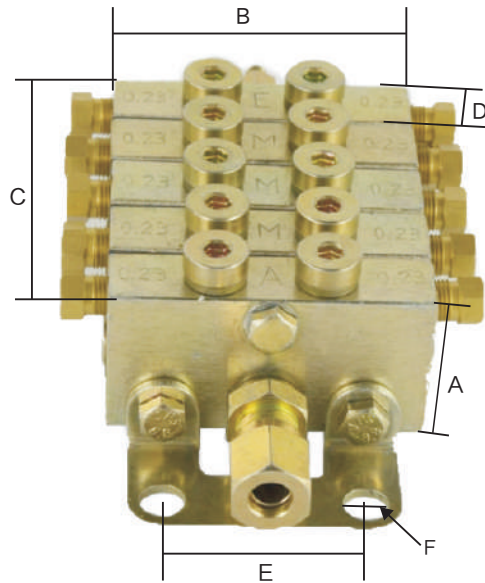
性能和特点 Performance & Characteristics

- 采单管方式进行的定量循环分配器
- 吐出量的大小可依规格变化
- 每个吐出口的状况即代表全部吐出口的状况，只要一个出油口有问题并能马上确认出来。

- One-pipe for quantified cycle distribution
- Ejection capacity is changed based on specificationsThe quantity of links increased or decreased based quick ejection capacity
- Status of each ejection orifices represents status of all ejection capacity Incase of any problems incurring, the problem can be determined quickly.

型号规格 specifications	最大使用压力 Maximum Application pressure	适用黄油 Applicable Butter	吐出量 (cc) Ejection Capacity	最少出口数 Minimum Quantity Of Ejection	最多出口数 MaximumQuantity Of Ejection
VES	35	61.5	76	19	75.44

理论尺寸Theoretical size：

型号规格 specifications	A	B	C	D	E	F
VES-2/3/4/5/6(s)	35	61.5	76	19	19	8.5
VES-7/8(s)	35	61.5	95	19	19	8.5
VES-9/10(s)	35	61.5	114	19	19	8.5
VES-11/12(s)	35	61.5	133	19	19	8.5
VES-13/14(s)	35	61.5	152	19	19	8.5
VES-15/16(s)	35	61.5	171	19	19	8.5

整体式递进式分配器 Integral progressive distributor

VEG整体递进式分配器外形
Overall progressive distributor shape

60

30

请参考表格

VEG - □□ - □□
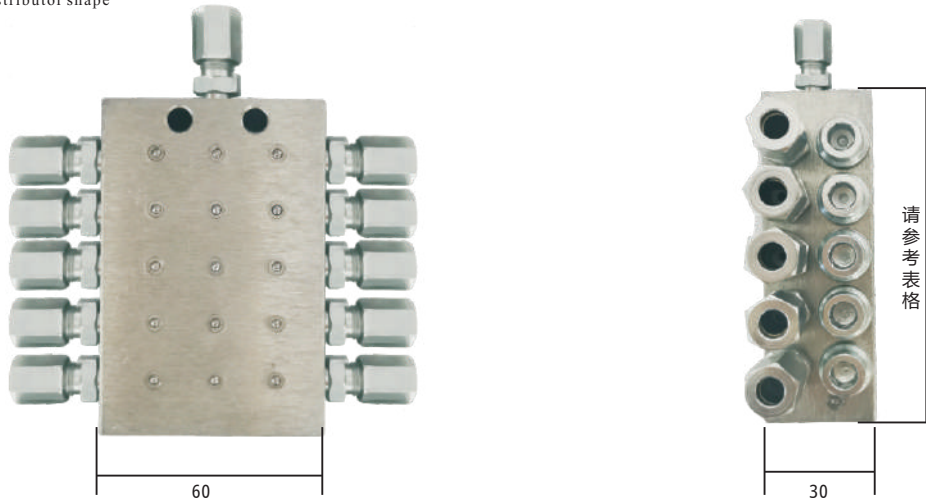
出油口数
Number of oil outlets

4	4
6	6
8	8

循环开关方式
Cycle switch mode

空白 Blank	不带指示棒 without indicator stick
A	带机械式循环指示棒 with mechanical cycle indicator
B	带电子式循环开关指示器 with electroniccycle switch indicator
C	带微动开关式循环开关指示器 with micro switch type cycle indicator

出油口管径 Outlet pipe diameter

4	接Φ4管 Connected to Φ4 pipe
6	接Φ6管 Connected to Φ6 pipe

入油口径 Enter pipe diameter

6	接Φ6管 Connected to Φ6 pipe
8	接Φ8管 Connected to Φ8 pipe

性能和特点 Performance & Characteristics

　　VEG整体式递进式分配器是一种广泛使用于油脂润滑系统中的计量分配部件，其设计先进、结构合理，由于内外部所有的元器件全部由金属组合而成，故可以适用于高压、宽温度变化的工况场合，同时也可应用在中低压的油脂润滑系统。

　　VEG整体递进式分配器由于具有递进式、无需卸压的结构特点，可以与任意类型的包括电动、气动、液动等类型油脂泵组合配套为油脂集中润滑系统，为各种大中小型机床设备、工程机械、风力发电、钢厂、港口、起塔及其它各种设备提供润滑工作。

　　VEG整体递进式分配器性能特点:
1.采用整体式的设计，密封性能更加优越;❷采用最新颖的出油口锥面设计，可以使用油塞和特殊出油接头随意组合出油口数量;❸
2.设计结构更加紧凑、合理;油量输出精确;

VEG monolithic progressive distributor is a kind of widely used in measuring distribution of grease lubrication system components, its advanced design, reasonable structure, due to the internal and external all components are all made by metal, so it can be applied to occasions, working conditions of high pressure and wide temperature change at the same time can also be used in low pressure grease lubrication system."

VEG whole progressive distributor with progressive type, without pressure relief structure characteristic, can with any type of types including electric, pneumatic, hydraulic oil pump sets for grease lubrication system, for all kinds of big small and medium-sized machine tool equipment, engineering machinery, wind power, steel, ports, towers and other all sorts of equipment to provide lubrication.
Performance characteristics of VEG integral progressive distributor :
1. Adopting integral design, the sealing performance is better;
2. The most innovative taper design for oil outlets was adopted. The number of outlets could be randomly combined with oil plugs and a special oil outlet connector. More compact and reasonable designs; Accuracy of the fluid output;

型号规格specifications	VEG06	VEG08	VEG10	VEG12	VEG14	VEG16	VEG18	VEG20
最多出油口数	6	8	10	12	14	16	18	20
A(mm)	60	75	90	105	120	135	150	165
出油量（mL/cyc）	0.2							
使用润滑剂	润滑油≥60cst;润滑脂000#00#,0#,1#,2#							
推动油压	≥1.5MPa							
最大输出压力	35MPa							

注:分配器的同侧的出油口数量，可通过油塞取代出油接头将相邻的一些出油口堵住，实现出油口数量合并如:二合一、三合一、四合一等，但01和02出油口不能堵住。合并后每一侧的出油口数至少保留一个，因此VEG整体式分配器出油口合并后最少为2口。另外若有需要可以将01和02出油口贯通，此时经合并后分配器出油口可为1个。

限流分配器 Current limiting distributor

VAL - ☐☐ - ☐☐

出油口数 Quantily of oli outlets

02	2位 position
03	3位 position
04	4位 position
05	5位 position
出油口数量可定做 The quantity of oil outlet can be customized	

出油口螺纹 Outlet thread

1	进油口与出油口螺纹为M8X1 The inlet and outlet threads are M8X1
2	进油口一边M8X1另外端M10X1 出油口全部M8X1 Inlet side M8X1The other end M10X1 All oil outlet M8X1
3	进油口两边M10x1 出油口M8X1 Both sides of the inlet are M10x1 Oil outlet M8X1

进油口类别 Inlet type

空白	进油口一头配套管帽 另一头配堵头 Matching pipe cap at one end of oil inlet The other end with plug
A	进油口两边都配套管帽 Matching pipe caps on both sides of oil inlet
B	进油口主管一端配直角接头 另外一端配堵头 One end of the inlet main pipe should be equipped with a right-angle connector and the other end should be equipped with a plug

出油口比例接头号数 Oil outlet proportional fitting number

0	0号比例接头 Proportion joint number 0
1	1号比例接头 Proportion joint number 1
2	2号比例接头 Proportion joint number 2
3	3号比例接头 Proportion joint number 3
4	4号比例接头 Proportion joint number4
5	5号比例接头 Proportion joint number5

性能和特点 Performance & Characteristics

　　DPC型抵抗式计量件又简称为比例式接头管式结构，内设有限流杆和单向阀 启动压力：0.2MPa通过节流原理控制流量，按流通能力（流量定数）对流量进行比例 匹配。同型号计量件再润滑系统中相互间距离的远、近、高、低、卧装或立装均在实际 衬使用中其出油量基本相等。使用寿命长，比例接头单相伐其橡胶密封件外部衬压铜套 （除密封面外）防止橡胶密封件膨胀和老化。 动作灵敏，排油畅通；比例接头单相伐采用锥形弹簧，确保计量件动作灵敏与排油畅 通，并防止排出的油逆流。流量比：统一型号的流量在实际使用过程中会由环境温度的 变化和有的黏度不同而发生变化。

　　DPC type resistance metering piece is also referred to as the proportional joint pipe type structure, with a restrictor rod and a one-way valve inside. Start-up pressure: 0.2MPa controls the flow rate through the throttling principle, and proportionally matches the flow rate according to the flow capacity (flow rate). In the relubrication system of the same type of metering parts, the distance between the far, near, high, low, horizontal or vertical installation is basically the same in actual lining use. Long service life, the proportional joint single-phase rubber seal is lined with a copper sleeve (except the sealing surface) to prevent expansion and aging of the rubber seal. The action is sensitive and the oil drain is smooth; the proportional joint single-phase valve adopts a conical spring to ensure the sensitive action of the metering piece and the smooth oil drain, and prevent the drained oil from flowing back.Flow rate ratio: The flow rate of the unified model will change due to the change of ambient temperature and the difference of some viscosity during actual use.

型号规格 specifications	T1/T2	出口数 Outlet quantity	A	B
VAL-021	Φ4/Φ4	2	48	35
VAL-022	Φ4/Φ6	2	48	35
VAL-031	Φ4/Φ4	3	64	51
VAL-032	Φ4/Φ6	3	64	51
VAL-041	Φ4/Φ4	4	80	67
VAL-042	Φ4/Φ6	4	80	67
VAL-051	Φ4/Φ4	5	96	83
VAL-052	Φ4/Φ6	5	96	83

单支加压式稀油分配器

Single pressurized thin oil distributor
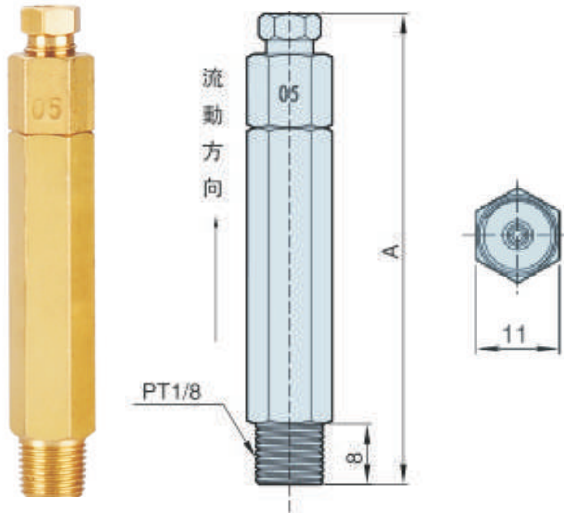
VAC-00-

05	0.05毫升/次 0.05ml/time
1	0.1毫升/次 0.1ml/time
2	0.2毫升/次 0.2ml/time
3	0.3毫升/次 0.3ml/time
4	0.4毫升/次 0.4ml/time
5	0.5毫升/次 0.5ml/time

规格型号及技术参数：

Models，specifications and technical parameters

型号规格 Specifications	吐出量 Throuhput (cc/cy)	A	记号 Mark	重量 Weight
VAC-00-05	0.05	53	00	100
VAC-00-1	0.1	53	01	100
VAC-00-2	0.2	60	02	168
VAC-00-3	0.3	60	03	232
VAC-00-4	0.4	71	04	299
VAC-00-5	0.5	71	05	359

VAC -

02	出口数为2位 the Oil outlet is at position 2
03	出口数为3位 the Oil outlet is at position 3
04	出口数为4位 the Oil outlet is at position 4
05	出口数为5位 the Oil outlet is at position 5

第五个出油口油量
Oil volume of 5th oil outlets

第四个出油口油量
Oil volume of 4th oil outlets

第三个出油口油量
Oil volume of 3th oil outlets

第二个出油口油量
Oil volume of 2th oil outlets

第一个出油口油量
Oil volume of 1th oil outlets
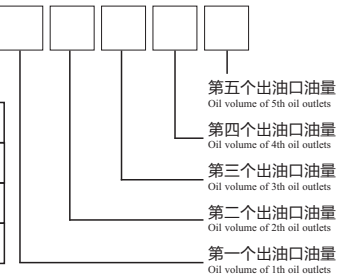
油量表示方法：（注：当所有出油口油量值一样时，只有一个油量值表示）

例1：VAC-05-2表示VAC型5位分配器第1,2,3,4,5出油口油量全部为

0.2毫升/次。

例2：VAC-05-53235表示VAC型5位分配器第1,2,3,4,5出油口油量分

别为0.5；0.3；0.2；0.3； 0.5毫升/次。

*注：VAC分配器有7-12位

(note: when the oil quantity of all outlets is the same, there is only one oil quantity)

Example 1: VAC-05-2 means that the oil output at the 1st, 2nd, 3rd, 4th, 5th outlet of VAC 5-bit

distributor is all 0.2ml/time.

Example 2: VAC-05-53235 means the oil output of the first 1,2,3,4, and 5 outlets of the VAC 5-bit

distributor is 0.5, respectively. 0.3; 0.2; 0.3; 0.5ml/time.

*Note: VAC distributor has 7-12 digits.

单支加压式稀油分配器 Single pressurized thin oil distributor

规格型号及技术参数：
Models specifications and technical parameters

型号规格 Specifications	出口数 Outlet quantity	A	B	C	吐出量 Throuhput (cc/cy)
VAC-02	2	49	38	68-86	
VAC-03	3	65	54	68-86	0.05;0.1;0.2; 0.3;0.4;0.5.
VAC-04	4	81	70	68-86	
VAC-05	5	97	86	68-86	

备注：C尺寸0.1cc为68mm，0.2-0.3cc为75mm，0.4-05cc为86mm

Remarks：The measurement of C isrespectively 68mm，75mm and 86mm when the throughput is 0.1cc，0.2-0.3cc，0.4-0.5cc
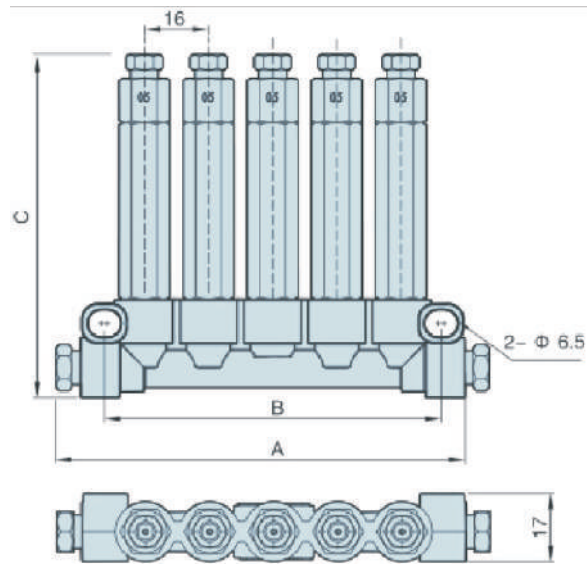
VAC/F单支加压式稀油分配器工作原理图

Schematic diagram of the VAC/F distributor

加压

1 排油前（加压开始）	2 排油中（加压中）	3 排油完毕（加压完毕）	4 计量中（活塞回复中）

1.从油泵中压送出来的润滑剂，使分配器内的伞形阀开始往上推支。

2.当伞形阀把蕊杆中心孔封闭后，迫使活塞克服弹簧力开始上升，将上腔原先储存的油剂往外排出。

3.当活塞移至上腔顶点时，排油也同量完毕。

4.油泵停止供油量，其卸压阀自行开启，使主油管内压力油通过卸压阀回油，此时系统压力下降，分配器中的活塞在弹簧作用下开始回复，当伞形阀回复封闭分配器进油口，则活塞把储存在下腔的油剂通过蕊杆小孔压送到上腔，同时下次的供油也准备完毕。

1.The lubricant sent from the medium pressure of the oil pump causes the umbrella valve in the distributor to start pushing up the branch.

2.When the umbrella valve closes the core hole of the rod, the piston is forced to overcome the spring force and start to rise, expelling the oil previously stored in the upper cavity.
   When the piston moves to the top of the upper cavity, the oil discharge is also completed.

3.The oil pump stops supplying oil, and its pressure relief valve opens itself, so that the pressure oil in the main oil pipe returns through the pressure relief valve. At this time, the pressure of the system decreases, and the piston in the distributor is under the action of spring.

4.Start to reply, when the umbrella valve returns to the closed distributor inlet, the piston sends the oil stored in the lower cavity to the upper cavity through the rod hole, and the next supply is ready.

单支加压式油脂分配器 Single pressurized grease dispenser

VAO-00-

05	0.05毫升/次 0.05ml/time
1	0.1毫升/次 0.1ml/time
2	0.2毫升/次 0.2ml/time
3	0.3毫升/次 0.3ml/time
4	0.4毫升/次 0.4ml/time
5	0.5毫升/次 0.5ml/time

规格型号及技术参数：
Models，specifications and technical parameters

型号规格 Specifications	吐出量 Throuhput (cc/cy)	A	记号 Mark	重量 Weight
VAO-00-05	0.05	53	00	100
VAO-00-1	0.1	53	01	100
VAO-00-2	0.2	60	02	168
VAO-00-3	0.3	60	03	232
VAO-00-4	0.4	71	04	299
VAO-00-5	0.5	71	05	359
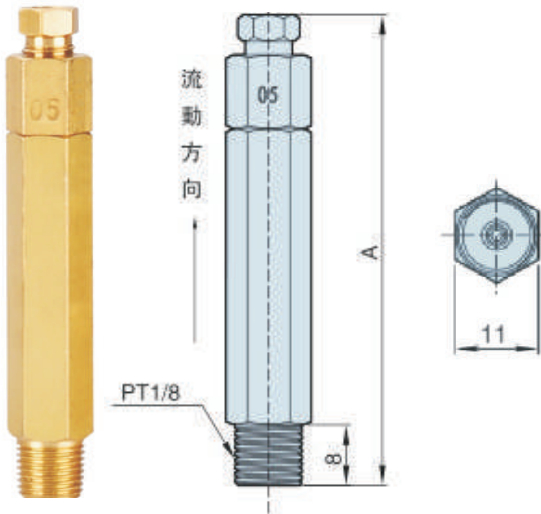
VAO-00-

02	出口数为2位 the Oil outlet is at position 2
03	出口数为3位 the Oil outlet is at position 3
04	出口数为4位 the Oil outlet is at position 4
05	出口数为5位 the Oil outlet is at position 5

第五个出油口油量 Oil volume of 5th oil outlets
第四个出油口油量 Oil volume of 4th oil outlets
第三个出油口油量 Oil volume of 3th oil outlets
第二个出油口油量 Oil volume of 2th oil outlets
第一个出油口油量 Oil volume of 1th oil outlets
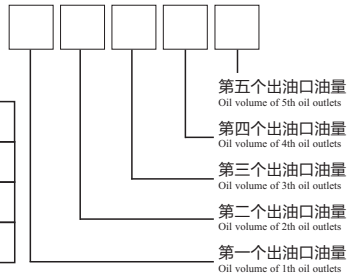
油量表示方法：（注：当所有出油口油量值一样时，只有一个油量值表示）

例1：VAO-05-2表示VAO型5位分配器第1,2,3,4,5出油口油量全部为0.2毫升/次。

例2：VAO-05-53235表示VAO型5位分配器第1,2,3,4,5出油口油量分别为0.5；0.3；0.2；0.3； 0.5毫升/次。

*注：VAO分配器有7-12位

(note: when the oil quantity of all outlets is the same, there is only one oil quantity)

Example 1: VAO-05-2 means that the oil output at the 1st, 2nd, 3rd, 4th, 5th outlet of VAC/F 5-bit distributor is all 0.2ml/time.

Example 2: VAO-05-53235 means the oil output of the first 1,2,3,4, and 5 outlets of the VAC/F 5-bit distributor is 0.5, respectively. 0.3; 0.2; 0.3; 0.5ml/time.

*Note: VAO distributor has 7-12 digits.

单支加压式油脂分配器 Single pressurized grease dispenser

规格型号及技术参数：
Models，specifications and technical parameters

型号规格 Specifications	出口数 Outlet quantity	A	B	C	吐出量 Throuhput (cc/cy)
VAO-02	2	49	38	68-86	
VAO-03	3	65	54	68-86	0.05;0.1;0.2;0.3;0.4;0.5.
VAO-04	4	81	70	68-86	
VAO-05	5	97	86	68-86	

备注：C尺寸0.1cc为68mm，0.2-0.3cc为75mm，0.4-05cc为86mm
Remarks：The measurement of C isrespectively 68mm，75mm and 86mm when the throughput is 0.1cc，0.2-0.3cc，0.4-0.5cc
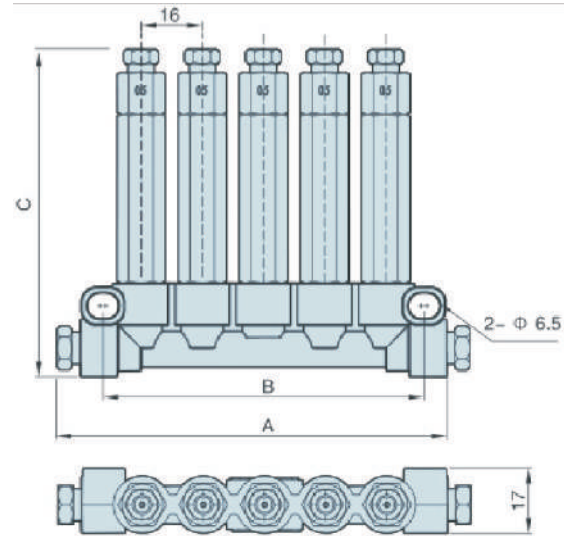
VAO单支加压式油脂分配器工作原理图

Schematic diagram of the VAO distributor

1 排油前（加压开始）　　2 排油中（加压中）　　3 排油完毕（加压完毕）　　4 计量中（活塞回复中）

1.从油泵中压送出来的润滑剂，使分配器内的伞形阀开始往上推支。

2.当伞形阀把蕊杆中心孔封闭后，迫使活塞克服弹簧力开始上升，将上腔原先储存的油剂往外排出。

3.当活塞移至上腔顶点时，排油也同量完毕。

4.油泵停止供油量，其卸压阀自行开启，使主油管内压力油通过卸压阀回油，此时系统压力下降，分配器中的活塞在弹簧作用下开始回复，当伞形阀回复封闭分配器进油口，则活塞把储存在下腔的油剂通过蕊杆小孔压送到上腔，同时下次的供油也准备完毕。

1.The lubricant sent from the medium pressure of the oil pump causes the umbrella valve in the distributor to start pushing up the branch.

2.When the umbrella valve closes the core hole of the rod, the piston is forced to overcome the spring force and start to rise, expelling the oil previously stored in the upper cavity.
   When the piston moves to the top of the upper cavity, the oil discharge is also completed.

3.The oil pump stops supplying oil, and its pressure relief valve opens itself, so that the pressure oil in the main oil pipe returns through the pressure relief valve. At this time, the pressure of the system decreases, and the piston in the distributor is under the action of spring.

4.Start to reply, when the umbrella valve returns to the closed distributor inlet, the piston sends the oil stored in the lower cavity to the upper cavity through the rod hole, and the next supply is ready.

VAV双边分配器 Adjustable distributor
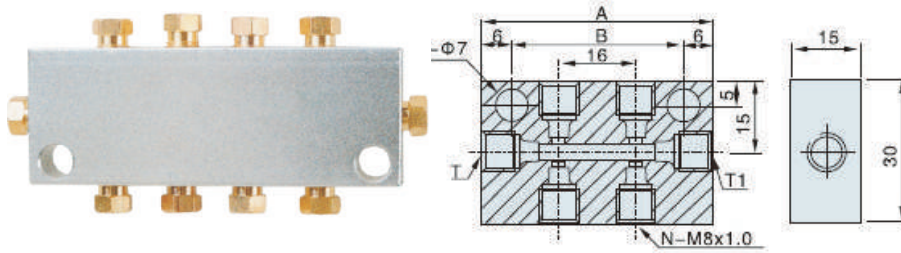
型号规格 specifications	T1/T2	出口数 Outlet quantity	A	B
VAV-041 VAV-042 VAV-043	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	4	48	36
VAV-061 VAV-062 VAV-063	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	6	64	52
VAV-081 VAV-082 VAV-083	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	8	80	68
VAV-101 VAV-102 VAV-103	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	10	96	84
VAV-121 VAV-122 VAV-123	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	12	112	99

VAK可调分配器 Adjustable distributor

VAKD带锁可调分配器

Tunable distributor with lock

型号规格 specifications	入口口径 Inlet calibre	出口口径 Outlet caliber	出口数 Quantity of outlets	A	B
VAK-024-04 VAK-026-04 VAK-026-06 VAK-028-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	2	47	37
VAK-034-04 VAK-036-04 VAK-036-06 VAK-038-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	3	62	52
VAK-044-04 VAK-046-04 VAK-046-06 VAK-048-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	4	77	67
VAK-054-04 VAK-056-04 VAK-056-06 VAK-058-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	5	92	82
VAK-066-04 VAK-066-06 VAK-068-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	6	107	97
VAK-076-04 VAK-076-06 VAK-078-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	7	122	112
VAK-084-04 VAK-086-06 VAK-086-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	8	137	127
VAK-094-04 VAK-096-06 VAK-096-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	9	152	142
VAK-104-04 VAK-106-06 VAK-108-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	10	167	157

VAK/VAKD安装尺寸图

VAK/VAKD installation dimension drawing
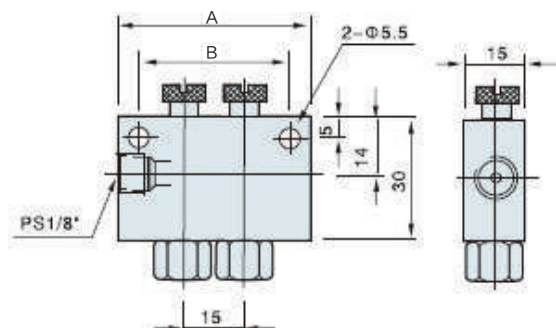
VAB单边分配器 VAB Side Allocator

VAB - ☐☐ **-** ☐☐

出油口数
Quantily of oli outlets

02	2位 position
03	3位 position
04	4位 position
05	5位 position
出油口数量可定做 The quantity of oil outlet can be customized	

进油口类别
Inlet type

空白	进油口一头配套管帽 另一头配堵头 Matching pipe cap at one end of oil inlet The other end with plug
A	进油口两边都配套管帽 Matching pipe caps on both sides of oil inlet
B	进油口主管一端配直角接头 另外一端配堵头 One end of the inlet main pipe should be equipped with a right-angle connector and the other end should be equipped with a plug

出油口螺纹
Outlet thread

1	进油口与出油口螺纹为M8X1 The inlet and outlet threads are M8X1
2	进油口一边M8X1另外端M10X1 出油口全部M8X1 Inlet side M8X1The other end M10X1 All oil outlet M8X1
3	进油口两边M10x1 出油口M8X1 Both sides of the inlet are M10x1 Oil outlet M8X1

管路接头配置
Pipeline joint configuration

0	不配管套管帽（默认） No piping casing cap (default)
1	配管套管帽 Piping casing cap
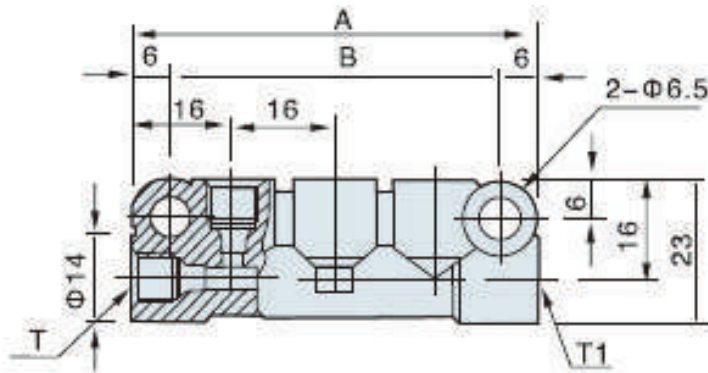
型号规格 specifications	T1/T2	出口数 Outlet quantity	A	B
VAB-021	Φ4/Φ4	2	48	35
VAB-022	Φ4/Φ6	2	48	35
VAB-031	Φ4/Φ4	3	64	51
VAB-032	Φ4/Φ6	3	64	51
VAB-041	Φ4/Φ4	4	80	67
VAB-042	Φ4/Φ6	4	80	67
VAS-051	Φ4/Φ4	5	96	83
VAS-052	Φ4/Φ6	5	96	83

型号规格 specifications	T1/T2	出口数 Outlet quantity	A	B
VAB-061	Φ4/Φ4	6	112	99
VAB-062	Φ4/Φ6	6	112	99
VAB-071	Φ4/Φ4	7	128	115
VAB-072	Φ4/Φ6	7	128	115
VAB-081	Φ4/Φ4	8	144	131
VAB-082	Φ4/Φ6	8	144	131
VAB-101	Φ4/Φ4	10	176	165
VAB-102	Φ4/Φ6	10	176	165

VFG油脂滤油器 VFG Grease filter
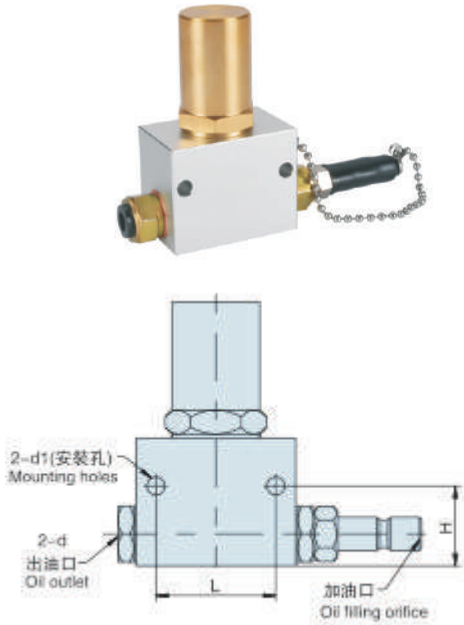
型号规格 specifications	压力等级 MPa	油管直径	过滤精度	外形尺寸		
				L	H	d1
VFG-06		Φ6	80	30	20	Φ4.5
VFG-08		Φ8	120	40	25	Φ5.5
VFG-10	20	Φ10	160	45	30	Φ6.5
VFG-12		Φ12	180	55	35	Φ6.5

性能和特点 Performance & Characteristics

滤油器适用于油脂润滑系统;
□滤油器用于清除或者减少杂质混入润滑系统;
□滤油器安装方法:
1、安装在润滑泵加油口前端,通过油枪,经滤油器,向润滑泵注入油剂;
2、安装在润滑系统油泵出油口与分配器进油口之间(滤油器去除注油口快插接头),安装在润滑泵加油口前端,通过油枪,经滤油器,向润滑泵注入油剂;

Oil filter is suitable for grease lubrication system;
The oil filter is used to remove or reduce impurities from the lubrication system.
Detectable with oil Filters:
1. Install at the front end of the refueling port of the lubricating pump and inject oil agent into the lubricating pump through the oil gun and filter;
2. It shall be installed between the oil outlet of the oil pump of the lubrication system and the oil inlet of the distributor (the quick insert joint of the oil filter to remove the oil injection nozzle). It is installed at the front end of the refueling port of the lubricating pump. Through the oil gun and through the oil filter, oil agent is injected into the lubricating pump.

D调整型滤油器 Adjustable Oil Fiter
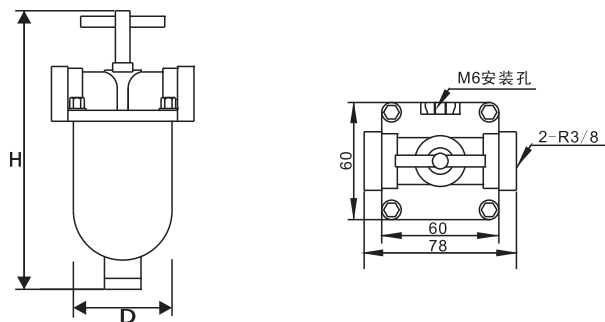
性能和特点 Performance & Characteristics

1.压力损失小,结构紧凑,安装方便;
2.可随时旋转把手进行清洁;
3.适用于周期或连续润滑系统中;

1. Small pressure loss, compact structure, easy installation.
2. The handle can be rotated for cleaning at any time.
3. Suitable for periodic or continuous lubrication system.

	型号规格 specifications	管径 diameter	H	L	D	备注
过滤器	D-102	1/4"	120	60	50	
	D-103	3/8"	160	75	55	
	D-310	3/4"	230	100	75	
	D-312	1"	270	120	75	

滤油器 Oil Filter

VF-20滤油器 VF-20 Oil Filter
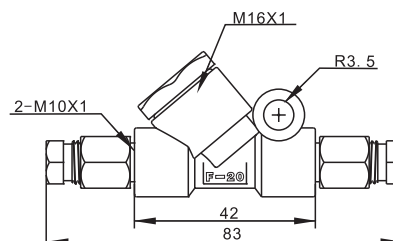
性能和特点 Performance & Characteristics

过滤精度可达到20μ，可搭配抵抗式润滑油泵使用

最大压力可达到25kg/cm²使用范围,最大流量1L/min,建

议使用黏度30-250cSt

Filter accuracy up to 20, can be used with resistance lubricating oil pump The maximum pressure can reach 25kg/cm² and the maximum flow rate is 1L/min. The recommended viscosity is 30-250cst

过滤器	型号规格 specifications	过滤精度(μ)	流量Flow（L/min）	最大工作压力（Mpa）	使用范围	用油黏度范围（mm/s）
	VF-20	20	1	2.5	抵抗式润滑装置	≤2000

VT滤油器   VT Oil Filter
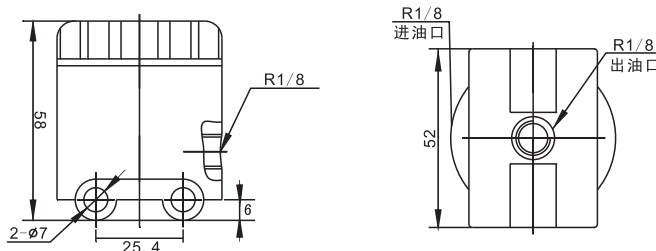
性能和特点 Performance & Characteristics

1.压力损失小，结构紧凑，安装方便

2.过滤精度有10μ、25μ、125μ三种可选。

3.适用于周期或连续润滑系统中。

1. Small pressure loss, compact structure, easy installation

2. Filtration accuracy is 10μ, 25μ and 125μ.

3. Suitable for periodic or continuous lubrication system.

过滤器	型号规格 specifications	过滤精度(μ)	流量Flow（L/min）	最大工作压力（Mpa）
	VT-16	10	1.6	3.5
	VT-25	25	1.6	3.5
	VT-125	125	1.6	3.5

限流杆单向阀 Restrictor bar check valve

DST

PT1/8

8 / 6.5 / 25 / 8.5

M8X1.0
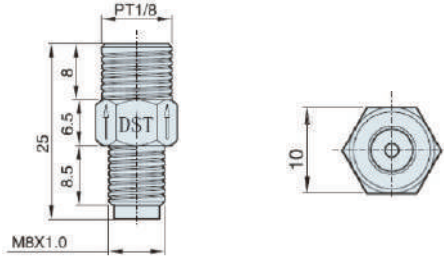
	型号规格 specifications	标记 Marks	流量 Flow（CC/min）	连接方式（connectingmode）
D S T	DST-0	DST0	1.8	进油口方向与（套管EB04）和(螺帽EN04)连接 出油口端与设备润滑点连接（常用于支路末端） The oil inlet is connected to sleeve pipeEB04 and screw cap EN04. The oil outlet is connected to equipment lubricating point(usually used at the end of the branch).
	DST-1	DST1	3.8	
	DST-2	DST2	6	
	DST-3	DST3	12	
	DST-4	DST4	18	
	DST-5	DST5	22	

DSS

M8X1.0

28 / 24 / 7

M8X1.0

	型号规格 specifications	标记 Marks	流量 Flow（CC/min）	连接方式（connectingmode）
D S S	DSS-0	DSS0	1.8	两端分别与（套管EB04）和（螺帽EN04）连接。（常用于支路中端） Both ends are connected to sleeve pipeEB04 and screw cap EN04 (usually usedat middle end of the branch).
	DSS-1	DSS1	3.8	
	DSS-2	DSS2	6	
	DSS-3	DSS3	12	
	DSS-4	DSS4	18	
	DSS-5	DSS5	22	

DPB

M8X1.0

8.6 / 7 / 30 / 12.5

M8X1.0

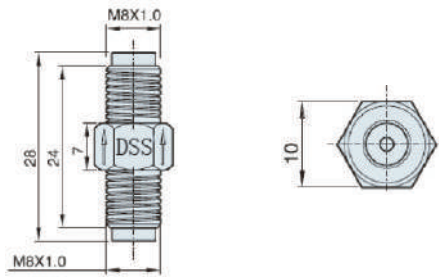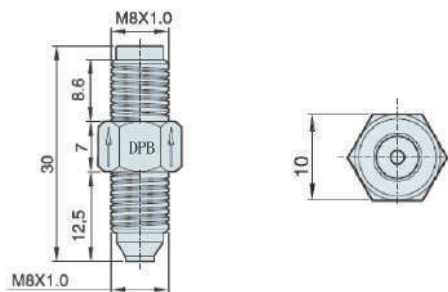|	型号规格 specifications	标记 Marks	流量 Flow（CC/min）	连接方式（connectingmode）
D P B	DPB-0	DST0	1.8	进油口方向与(VAB型)分油块连接。出油口方向与（套管EB04）和（螺帽EN04）连接。（常用于支路前端） The oil inlet is connected to oil distributionblock (model VAB). The oil outlet isconnected to screw cap EB04 with thesleeve pipe (sleeve pipe EN04).
	DPB-1	DST1	3.8	
	DPB-2	DST2	6	
	DPB-3	DST3	12	
	DPB-4	DST4	18	
	DPB-5	DST5	22	

性能和特点 Performance & Characteristics

DST/DSS/DPC型抵抗式计量件又简称为比例式接头管式结构，内设有限流杆和单向阀启动压力：0.2MPa

通过节流原理控制流量，按流通能力（流量定数）对流量进行比例匹配。同型号计量件再润滑系统中相互间距离的远、近、高、低、卧装或立装均在实际衬使用中其出油量基本相等。使用寿命长，比例接头单相伐其橡胶密封件外部衬压铜套（除密封面外）防止橡胶密封件膨胀和老化。动作灵敏， 排油畅通；比例接头单相伐采用锥形弹簧，确保计量件动作灵敏与排油畅通，并防止排出的油逆流。

流量比：统一型号的流量在实际使用过程中会由环境温度的变化和有的黏度不同而发生变化。

1.DST/DSS/DPC resistant measurement device is called proportional joint.
2.Pipe structure: built-in flow limit bar and one-way valve.
3.Opening pressure: 0.2MPa
4.Flow is controlled by the principle of throttling, and distributed according to flowing capacity (flow constant). Meanwhile, the measurement device in the lubricating system with near, distant, high, low, horizontal or vertical installation have identical outlet flow. With long service life, the rubber sealing parts of the proportional one-way joint is coated with copper sleeve (except sealing face) to prevent expansion and aging of rubber sealing parts.
5.Sensitive action and smooth oil drain: taper spring is used for one-way valve with proportional joint to ensure that action of the measurement device is sensitive and smooth to prevent reverse flow of oil.
6.Flow ratio: flow of the same model shall be changed with change of environmental temperature and oil viscosity in use.

润滑附件 Lubricating accessory
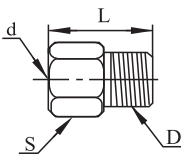
油管接头 Tubing joint

代号	管外径	D	L	S	备注
EA-4	Φ4	M8X1	12	8	
EA-6	Φ6	M10X1	12.5	10	
EA-8	Φ8	M12X1	14	12	
EA-10	Φ10	M16X1.5	16	16	
EA-12	Φ12	M20X1.5	18	18	

密封圈 Sealing ring

代号	管外径	D	d	L	备注
EB-4	Φ4	Φ4.1	Φ4	4.5	
EB-6	Φ6	Φ6.1	Φ6	5	
EB-8	Φ8	Φ8.1	Φ8	6.5	
EB-10	Φ10	Φ10.1	Φ10	7	
EB-12	Φ12	Φ12.1	Φ12	8.5	

直通接头 Straight through joint

代号	管外径	D	d	L	S	备注
ED-406		M6X1		15	8	
ED-406-1		M6X0.75				
ED-408	Φ4	M8X1	M8X1			
ED-418		R1/8		16	10	
ED-410		M10X1				
ED-608		M8X1				
ED-618		R1/8		17	12	
ED-610	Φ6	M10X1	M10X1			
ED-612		M12X1		18	14	
ED-614		R1/4		20	14	
ED-810		M10X1				
ED-818	Φ8	R1/8	M12X1	26	17	
ED-814		R1/4				
ED-1018		R1/8		22	18	
ED-1014	Φ10	R1/4	M16X1.5	29	18	
ED-1038		R3/8		33	19	

单向直通接头（正向） Unidirectional straight joint (Forward)

流动方向

代号	管外径	D	d	L	S	备注
ED-4081		M8X1				
ED-4181	Φ4	R1/8	M8X1	22	10	
ED-4101		M10X1				
ED-6081		M8X1				
ED-6181	Φ6	R1/8	M10X1	24	12	
ED-6101		M10X1				

润滑附件 Lubricating accessory

单向直通接头（反向）Unidirectional straight joint (Reverse)

代号	管外径	D	d	L	S	备注
ED-4082		M8X1				
ED-4182	Φ4	R1/8	M8X1	22	10	
ED-4102		M10X1				
ED-6082		M8X1				
ED-6182	Φ6	R1/8	M10X1	24	12	
ED-6102		M10X1				

直角接头 Angle coupling

代号	管外径	D	d	L	S	备注
EL-406		M6X1		15		
EL-406-1		M6X0.75			18	
EL-408	Φ4	M8X1	M8X1			
EL-418		R1/8		16		
EL-410		M10X1				
EL-608		M8X1				
EL-618		R1/8		17	20	
EL-610	Φ6	M10X1	M10X1			
EL-612		M12X1		18	22	
EL-614		R1/4		20		
EL-810		M10X1				
EL-818	Φ8	R1/8	M12X1	26	29	
EL-814		R1/4				
EL-1018		R1/8		22	29	
EL-1014	Φ10	R1/4	M16X1.5	29	29	
EL-1038		R3/8		33	29	

单向直角接头（正向）Angle coupling (Forward)
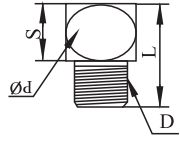
代号	管外径	D	d	L	S	备注
EL-4081		M8X1				
EL-4181	Φ4	R1/8	M8X1	22	10	
EL-4101		M10X1				
EL-6081		M8X1				
EL-6181	Φ6	R1/8	M10X1	24	12	
EL-6101		M10X1				

单向直角接头（反向）Angle coupling (Reverse)
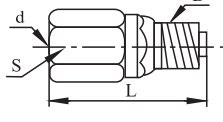
代号	管外径	D	d	L	S	备注
EL-4082		M8X1				
EL-4182	Φ4	R1/8	M8X1	22	10	
EL-4102		M10X1				
EL-6082		M8X1				
EL-6182	Φ6	R1/8	M10X1	24	12	
EL-6102		M10X1				

润滑附件 Lubricating accessory

平面直角接头 Plane square joint

代号	D	d	L	S	备注
	M8X1	M8X1	20	12	
EPL-410	M10X1	M8X1	20	12	
EPL-418	R1/8	M8X1	21	13	
EPL-608	M8X1	M10X1	22	13	
EPL-610	M10X1	M10X1	22	13	
EPL-618	R1/8	M10X1	22	13	
EPL-G1818	R1/8	G1/8	21	13	
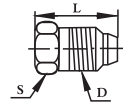
活动直通接头 Movable straight through

代号	管外径	D	d	L	S	备注
EDH-408	Φ4	M8X1	M8X1	28	10	
EDH-410	Φ4	M10X1	M8X1		10	
EDH-418	Φ4	R1/8	M8X1	30	10	
EDH-608	Φ6	M8X1	M10X1	30	12	
EDH-610	Φ6	M10X1	M10X1		12	
EDH-618	Φ6	R1/8	M10X1		12	
EDH--G1818	Φ6	R1/8	G1/8		12	
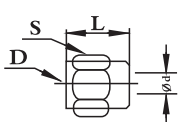
平头油塞 Flat head oil plug

代 号	D	L	S	备注
ES-06	M6X1	10	6	
ES-08	M8X1	11	8	
ES-R1/8	R1/8	13	10	
ES-10	M10X1	13	10	

PS-XX 平端油塞

锥度油塞 Flat head oil plug

代 号	D	L	S	备注
ES-8Z	M8X1	14	12	
ES-10Z	M10X1	15	14	

螺母接头 Joint nut

代 号	管外径	D	L	d	S	备注
EN-04	Φ4	M8X1	12	4.2	10	
EN-06	Φ6	M10x1	12	6.2	12	

润滑附件 Lubricating accessory

活动直角接头 Adjustable right Angle joint

代号	管外径	D	d	L	S	备注
ELH-408	Φ4	M8X1	M8X1	28	29	
ELH-418		R1/8				
ELH-410		M10X1				
ELH-608	Φ6	M8X1	M10X1			
ELH-618		R1/8				
ELH-610		M10X1				
ELH-G1818		R1/8	G1/8			

连接接头 Attachment joint

代 号	D	L	备 注
EJ-06	M6X1	20	
EJ-08	M8X1	23	
EJ-10	M10X1	27	

外接双通接头 External double-pass connection

代 号	D	d	L	S	备 注
T-6-8	M6X1	M8X1	20	8	
T-8-8	M8X1	M8X1	23	10	
T-8-10		M10X1			
T-8-R1/8		R1/8			
T-10-10	M10X1	M10X1	25		
T-10-R1/8		R1/8			
T-R1/8-R1/8	R1/8	R1/8			
T-R1/8-R12		R1/2	30	22	
T-R1/8-R1/4		R1/4	27	14	
T-R1/8-R1/4	R1/4	R1/4	30	14	
T-R1/4-R3/8		R3/8	30	17	

内外接双通接头 Connect inner and outer double – pass joint

代 号	D	d	L	S	备 注
2T-8-8	M8X1	M8X1	24	10	
2T-8-10	M8X1	M10X1	24	12	
2T-10-10	M10X1	M10X1	26	12	
2T-10-12	M10X1	M12X1.25	29	14	
2T-8-G1/8	M8X1	G1/8	23	10	
2T-10-G1/8	M10X1	G1/8	23	12	
2T-14-G1/4	M14X1.5	G1/4	33	16	
2T-16-G1/4	M16X1.5	G1/4	36	18	
2T-18-G3/8	M18X1.5	G3/8	39	21	

润滑附件 Lubricating accessory

油刷 Oil brush

代 号	D	L	S	B	A	备 注
0B-1816	Rc1/8	75	13	37	16	

三通接头 T-junction

代 号	D	d	L	S	W	备 注
3T-8-8	M8X1	M8X1	30	22	12	
3T-8-10	M10X1	M8X1				
3T-10-10	M10X1	M10X1				
3T-G1/8-G1/8	G1/8	G1/8				
3T-G1/8-G1/4	G1/4	G1/8	31	25	18	
3T-G3/8-G3/8	G3/8	G3/8	40	31	21	

侧外接三通接头 Side external tee joint

代 号	D	d	L	S	备 注
3TZ-8-8	M8X1	M8X1	30	12	
3TZ-8-10	M10X1				
3TZ-8-1/8	R1/8				
3TZ-10-8	M8X1	M10X1	30		
3TZ-10-10	M10X1				
3TZ-10-1/8	R1/8				

正外接三通接头 Positive external tee joint
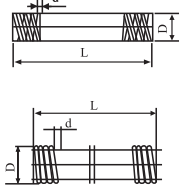
代 号	D	d	L	S	备 注
3TG-8-8	M8X1	M8X1	30	12	
3TG-8-10	M10X1				
3TG-8-1/8	R1/8				
3TG-10-8	M8X1	M10X1	30		
3TG-10-10	M10X1				
3TG-10-1/8	R1/8				

固定双通接头 Fixed double - pass joint

代 号	D	d	L	备 注
2TD-8-8L	M8X1	M8X1	30	
2TD-8-1/8L		G1/8		
2TD-8-10L		M10X1		
2TD-10-10L	M10X1	M10X1		
2TD-10-G1/8L	M10X1	G1/8		
2TD-G1/8-G1/8L	G1/8	G1/8		

润滑附件 Lubricating accessory

弹簧护套 Spring sheath
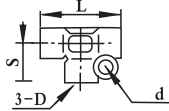
代 号	D	d		备 注
EHT-04	Φ5.5	Φ0.5	疏圈	
EHT-06	Φ7.7	Φ0.6		
EHM-04	Φ5.5	Φ0.5	密圈	
EHM-06	Φ7.7	Φ0.6		

管夹规格 Pipe clamp specifications
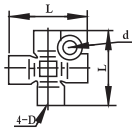
No.	代 号	固定方式	管径	管数	厚度	宽度	长度	螺丝孔	备 注
1	EC-1104		Φ4	1	0.8	10	19		
2	EC-1204		Φ4	2	0.8	10	23		
3	EC-1304		Φ4	3	1.0	10	27		
4	EC-1404		Φ4	4	1.0	10	31		
5	EC-1106		Φ6	1	0.8	10	20		
6	EC-1206		Φ6	2	1.0	10	28	5.5	
7	EC-1306		Φ6	3	1.0	12	30		
8	EC-1108		Φ8	1	1.0	10	22		
9	EC-1208		Φ8	2	1.0	12	30		
10	EC-1110		Φ10	1	1.0	12	26		
11	EC-1210		Φ10	2	1.2	12	40		
12	EC-1112		Φ12	1	1.2	12	30		
13	EC-1115		Φ15	1	1.6	20	42		
14	EC-1122		Φ22	1	1.6	20	42	7	
15	EC-1128		Φ28	1	1.6	20	55		
16	EC-1133		Φ33	1	2.0	24		8.5	
17	EC-1144		Φ44	1	2.0	8		7	
18	EC-2404		Φ4	4	1.2	8			
19	EC-2504		Φ4	5	1.2	8		5.5	
20	EC-2604		Φ4	6	1.2	8			
21	EC-2406		Φ6	4	1.2	10			

润滑附件 Lubricating accessory
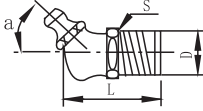
固定三通接头 Secure tee joint

代 号	D	d	L	S	备 注
3TD-8-8L	M8X1	Φ5.2	28	14	
3TD-10-10L	M10X1	Φ6.5	30	20	
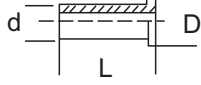
固定四通接头 Fixed tee joint

代 号	D	d	L	材料	备 注
4TD-8-8L	M8X1	Φ5.2	28	鋅合金	
4TD-10-10L	M10X1	Φ6.5	30	鋅合金	

黄油嘴 Grease fitting

a =0°: 直黄油嘴
a =45°: 45° 弯黄油嘴
a =90°: 90° 曲黄油嘴

注：加T为铁制
如：HY-118T

代 号	D	a	L	S	备 注
HY–106	M6X1	0°	12	8	
HY–108	M8X1		15	10	
HY–110	M10X1		17	12	
HY–114	R1/4		24	13.5	
HY–118	R1/8		17	11	
HY–206	M6X1	45°	16	8	
HY–208	M8X1		21	10	
HY–210	M10X1		21	12	
HY–214	R1/4		26	13.5	
HY–218	R1/8		21	12	
HY–306	M6X1	90°	16	8	
HY–308	M8X1		19	10	
HY–310	M10X1		22	12	
HY–318	R1/8		22	12	

油管衬套 Tubing bushing

代 号	D	d	L	备 注
ET-4X2	Φ3.8	Φ2	9	
ET-4X2.5	Φ3.8	Φ2.5	9	
ET-6X4	Φ5	Φ4	11	
ET-8X6	Φ7.5	Φ6	15.5	
ET-10X8	Φ9.5	Φ8	18	

润滑附件 Lubricating accessory

弹簧盖式油杯 Oil cup with spring cover

型 号	容量（cm³）	d	D	H
SYB-106	1	M6x1	9	20
SYB-108	1	M8x1	10	21
SYB-118	1.5	M10x1	16	32
SYB-110	1.5	M10x1	20	39

压配式压注油杯 Pressure matching type oil filling cup

型 号	d	H	钢球	备 注
PYB-106	6	6	4	
PYB-108	8	10	5	
PYB-110	10	12	6	
PYB-116	16	20	11	
PYB-125	25	30	13	

旋盖式注油杯 Screw-cap filling cup

型 号	最大容量（cm³）	d	D	S	备 注
RYB-110-Φ16	1.5	M10X1	16	12	
RYB-110-Φ20	3	M10X1	20	14	
RYB-110-Φ26	6	M10X1	26	14	
RYB-114-Φ32	12	M14X1.5	32	17	
RYB-114-Φ36	18	M14X1.5	36	17	
RYB-114-Φ41	25	M14X1.5	41	19	
RYB-116-Φ50	50	M14X1.5	50	22	
RYB-116-Φ63	100	M16X1.5	63	24	
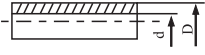
弹簧盖式直角油杯 Spring cover type right Angle oil cup

代 号	d	L	H	备 注
SYB-306	M6X1	24	18	
SYB-308	M8X1	28	24	
SYB-310	M10X1	28	24	
SYB-318	R1/8	28	24	
SYB-318L	R1/8	34.5	24	

针阀式注油杯 Needle valve type filling cup

型 号	最大容量（cm³）	d	D	H	备 注
NYB-16	16	M10X1	32	100	
NYB-25	25	M10X1	40	110	
NYB-50	50	M14X1.5	51	125	
NYB-100	100	M14X1.5	64	140	
NYB-200	200	M16X1.5	70	170	
NYB-400	400	M16X1.5	85	190	
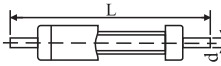
油管 Pipeline

代　号	D	d	备　注
ESO-4X2	Φ4	Φ2	
ESO-6X4	Φ6	Φ4	
ESO-8X6	Φ8	Φ6	
ESO-10X8	Φ10	Φ8	
ESD-4X2	Φ4	Φ2	
ESD-6X4	Φ6	Φ4	
ESD-8X6	Φ8	Φ6	
ESD-10X8	Φ10	Φ8	
ENL-4X2	Φ4	Φ2	
ENL-4X2.5	Φ4	Φ2.5	
ENL-6X4	Φ6	Φ4	
ENT-4X2	Φ4	Φ2	
ENT-6X4	Φ6	Φ4	
ENT-8X6	Φ8	Φ6	

尼龙管　铝管　镀铜铝管　铜管

钢丝护套软管 Steel sheathed hose

规格型号	配管外径d1 mm	使用压力 Mpa	最小弯曲半径	D	d2	L mm	备注
OSP-4	Φ4	3.00	R20	M8X1	Φ6	可按用户要求定制	
OSP-6	Φ6	2.70	R40	M10X1	Φ8		

EST钢丝编织布护套软管 OST Steel wire woven cloth sheathed hose

代　号	配管外径 d	长度 L	备注	代　号	配管外径 d	长度 L	备注
EST-4100		100		EST-6100		100	
EST-4200		200		EST-6200		200	
EST-4300		300		EST-6300		300	
EST-4400		400		EST-6400		400	
EST-4500		500		EST-6500		500	
EST-4600		600		EST-6600		600	
EST-4700	Φ4	700		EST-6700	Φ6	700	
EST-4800		800		EST-6800		800	
EST-4900		900		EST-6900		900	
EST-41000		1000		EST-61000		1000	
EST-42000		2000		EST-62000		2000	
EST-43000		3000		EST-63000		3000	

ESG高压软管

型号 Model	产品规格	管外径 Φ	使用压力	L(mm)
ESG-01	树脂高压软管	Φ8.5	20MPa	
ESGD-04	直通高压管接头	Φ4	20MPa	可按用户需求 定制不同长度
ESGD-06	直通高压管接头	Φ6	20MPa	
ESGL-04	直角高压管接头	Φ4	20MPa	
ESGL-06	直角高压管接头	Φ6	20MPa	

高压管接头 High Pressure Tubing Joint

高压管接头外套High pressure adapter jacket

高压管直涨芯The high pressure pipe goes straight up to the core
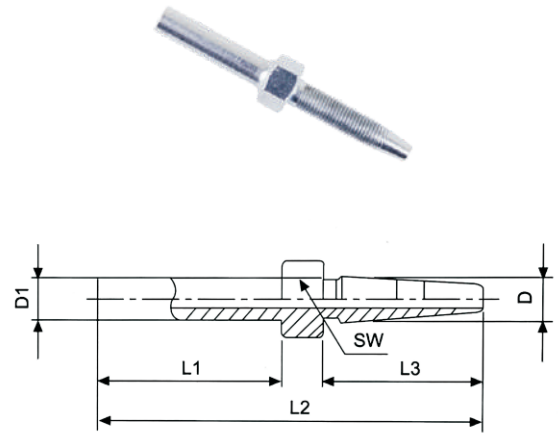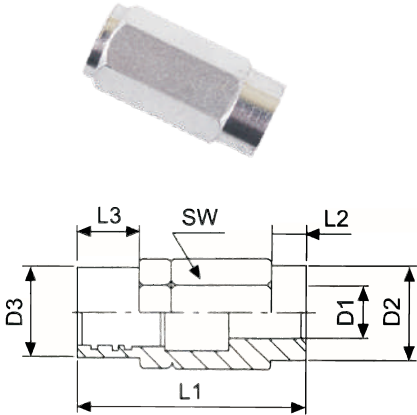
规格型号(外套) Model(Outer Casing)	D1	D2	D3	L1	L2	L3	SW	材料 Material
ESGD	M7X0.75	Φ11.8	Φ11.7	28	4	8	12	钢Steel

高压管接头外套High pressure adapter jacket

高压管弯涨芯The high pressure pipe bends the rising core
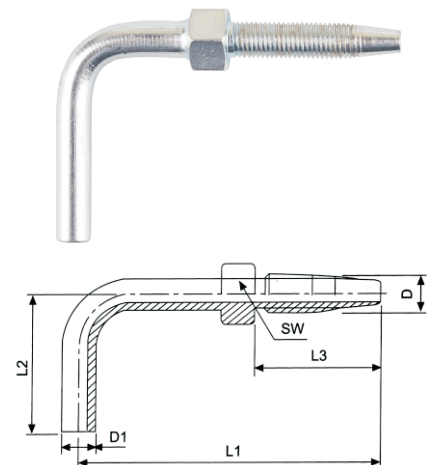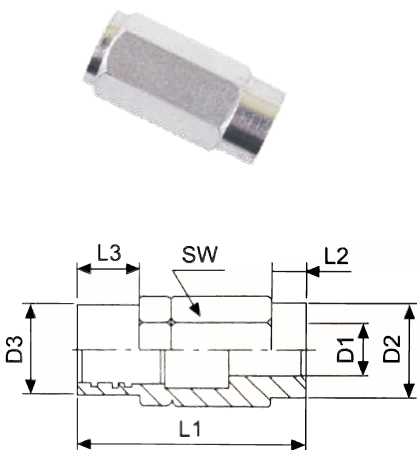
规格型号(外套) Model(Outer Casing)	D1	D2	D3	L1	L2	L3	SW	材料 Material
ESGL	M7X0.75	Φ11.8	Φ11.7	28	4	8	12	钢Steel

VWO气动黄油加油油机
Pneumatic butter oiler

1、本设备使用安全气压范围: 0.6~0.8MPa。
2、严禁使用可燃性气体作为动力，否则后果自负。
3、按季节使用锂基脂，冬季: 0#~1#，夏季: 2#~3# (请掺少量机油调均后使用)
4、请勿长时间空载往复工作，以免部件磨损。
5、严禁对人畜喷射。
6、停止工作时，请关闭气源并开枪泄去管内压力。
7、工作72小时必须卸下调压阀门，于配气体内部加机油润滑，避免干摩擦而引起漏气、死机。
8、注意定期保养，清洁油管。

1. The safe air pressure range of the equipment is 0.6~ 0.8mpa.2. It is strictly prohibited to use combustible gas as power, otherwise the consequences shall be borne by the owner.3. Use lithium base fat according to season, winter: 0#~1#, summer: 2#~3# (please mix a little oil and adjust the use after all)4, do not long time no load reciprocating work, so as to avoid component wear.5. It is strictly prohibited to spray humans and animals.6. When the work stops, please close the air source and discharge the pressure in the pipe.7. The pressure regulating valve must be removed and lubricated with oil in the gas distribution to avoid leakage and crash caused by dry friction.8. Pay attention to regular maintenance and clean the oil pipes.

型号规格 specifications	储油量Oil reserves	输入空气压力 （MPa）Input air pressure
VWO-16	16L	0.4~0.9
VWO-30	30L	0.4~0.9
VWO-40	40L	0.4~0.9

VWG手动加油枪
Manual oiling sprayer

适用于像各类稀油、油脂润滑油泵添加油剂
将加油泵插入标准15KG桶装商品润滑脂桶内即可操作。
携带方便、操作简单、用途广泛
配备1.5米软管与快插接头
使用介质、环境温度：000#-2#锂基脂、N22-N320机械油-20~80°C

. Applicable for various thin oil, oil grease lubricating pump additive oil pump.
. The refiling oil pump is inserted into standard 15Kg bucket commercial lubricating grease then can be operated.
. Portable, simple operating and extensive application,
. Configured with 1.5m flexible pipe and quick plug.
. Media and environmental temperature: 000 −2 lithium base grease and N22−N320 machine, machine oil −20~+80C

型号规格 specifications	VWG-10Z	VWG-10ZA
公称流量Nominal flow mL/CY	10	10
公称压力Nominal pressure MPa	2.0	4.0
配管型式Piping model	橡胶软管配快速插接头 Rubber flexible pipe quick plug	尼龙管配快速插接头 Nylon piping quick plug

油量计算 Oil quantity calculation

1.集中润滑装置的选择方法
系统的选择依照以下顺序进行

需油量的计算 ➡ 供油方式的选择 ➡ 计量件的选择 ➡ 润滑泵的选择

● 需油量的计算方法

使用场合	计算公式	例题 K = 1时
滚动轴承	(滚动轴承、滚柱轴承、滚针轴承) 油量 Q(ml/h)= 0.04 × 直径 × 列数 × K	假设有一滚珠轴承，轴承直径为80mm，求每小时常所需之油量。 Q=0.04x8x1=0.32(c.c/hr)
滑动轴承	油量 Q(ml/h)= 0.023 × 转轴直径 × 轴承长度 × K	假设有一平滑雪轴承，垂直放置，滑块长100mm宽40mm，求每小时所需之油量。 Q=0.023x8x10=1.84(c.c/hr)
平面导轨	a.油量 Q(ml/h)= 0.0017 ×(移动件长度+行程)× 宽度 × K(水平方向) b.Q(ml/h)= 0.006 ×(移动件长度+行程)× 宽度 ×K(垂直方向)	假设有一滑动轴承，轴直径为80mm，接触长度为100mm，求每小时所需之油量。 Q=0.006x10x4=0.24(c.c/hr)
圆柱导轨	a. 油量 Q(ml/h)= 0.023×直径×(移动件长度+行程)× K（水平方向) b. 油量 Q(ml/h)= 0.07×直径×(移动件长度+行程)× K（垂直方向)	假设有一圆筒滚动体，直径为80mm长为100mm求每小时常所需之油量。 Q=0.023x8x10=1.84(c.c/hr)
滚珠轴承轨道	油量 Q(ml/h)= 0.012 ×移动件行程 × 列数 ×K	假设有一线性滑轨，滑块长80mm滑块数为2，求每小时所需之油量。 Q=0.012x8x2=0.19(c.c/hr)
凸轮	油量 Q(ml/h)= 0.013 ×接触圆周 × 宽度 × K	假设有一凸轮机构，凸轮圆周长为200mm宽20mm，求每小时所需之油量。 Q=0.013x20x2=0.52(c.c/hr)
齿轮	油量 Q(ml/h)= 0.046 × 节园直径 × 齿度 × K	假设有一个链条总长300mm，链宽8mm，求每小时常所需之油量。 Q=0.046x8x2=0.74(c.c/hr)
链条	油量 Q(ml/h)= 0.008 × 长度 × 长度 × K	假设有一正齿轮，节圆直径为80mm齿宽20mm，求每小时常所需之油量。 Q=0.008x30x0.8=0.19(c.c/hr)
式中长度、直径单位均为 cm ，系数K 为倍数值，与运动速度有关，可查图。		

油量计算 Oil quantity calculation

2.部分机械使用润滑情况表

机械名	润滑处所		滴 油		备注
			ISO粘度等级	备注	
车床	主轴	高速	10	特级锭子油R12	注一
		一般	22,32	特级锭子油R12 特级循环机油R32	
	车床尾座		32,46,68	特级循环机油R32-R68	注一
	溜板		32,46,68	特级循环机油R32-R68	注一
	护床		32,46,68	特级循环机油R32-R68	注一
	进给变速装置		32,46,68	特级循环机油R32-R68	注一
	床、其它润滑部	高负荷	150,220	滑道机油150,220-R68	
		一般	65	滑道机油68	
	靠模装置用油壓作动部		32,46,68	R32-R65, OR HD32-68	注三
	其它滑动部	润滑油 滑脂	32,46,68	R32, R46, R68 多效油脂NO.1, NO.2	
铣床	上臂、柱、膝型齿轮箱、心轴架		32,46,68	R32-R65, OR HD32-68	注二
	床、其它润滑部	高负荷	150,220	滑道机油150,220-R68	
		一般	68	滑道机油68	
	其它润滑部	润滑油 滑脂	32,46,68	R32, R46, R68 多效油脂NO.1, NO.2	
磨床	平承轴	高速一般	2,3,5,7,1 32	R12 R32	注一
	进给变速装置		32,46,68	R32, R46, R68	注一
	床、其它润滑部	高负荷	150,220	滑道机油 150, 220	
		一般	68	68	
	油压作动部		32,46,68	R32-R65, OR AW32-68	注三
	其它润滑部	润滑油 滑脂	32,46,68	R32, R46, R68 多效油脂NO.1, NO.2	
钻床	车头		32	R12	
	齿轮箱		32,46,68	R32-R65, OR HD32-68	注二
	臂、柱、滑动面	高负荷	150,220	滑道150, 220	
		一般	68	滑道68	
	其它润滑部	润滑油 滑脂	32,46,68	R32, R46, R68 多效油脂NO.1, NO.2	
镗床	车头		32	R32	
	车头滑动面		68	滑道68	
	齿轮箱		32,46,68	R32-R65, OR HD32-68	注二
	床、其它滑动部		68,150,220	滑道68, 150, 220	
	其它润滑部	润滑油 滑脂	32,46,68	R32, R46, R68 多效油脂NO.1, NO.2	
刨床	柱、十字头、侧头齿轮箱		32,46,68	R32-R65, OR AW32-68	注二
	柱、头、平交轨滑动面		68,150,220	滑道68, 150, 220	
	油压作动部		32	R32	注三
	其它润滑部	润滑油 滑脂	32,46,68	R32, R46, R68 多效油脂NO.1, NO.2	
滚齿机	车头滑动部 油壓作动部		32	R32	注二
	膝、柱齿轮箱		32,46,68	R32-R65, OR HD32-68	
	膝、柱滑动箱		68,150,220	滑道油机68, 150, 220	
	其它润滑部	润滑油 滑脂	32,46,68	R32, R46, R68 多效油脂NO.1, NO.2	
复合工作机械	车头		32	R32	
	车头、座、柱齿轮箱		68	R68, OR HD-68	注二
	油压和动部		32,46,68	R32-R65, OR AW32-68	注二
	端架、其它润滑部		68,150,220	滑道油机68, 150, 220	
	其它润滑部	润滑油 滑脂	32,46,68	R32, R46, R68 多效油脂NO.1, NO.2	

常见故障及排除方法 Common faults and troubleshooting methods

电动润滑油泵常见故障及排除方法
Common faults and troubleshooting methods of Electric Lubricating Oil pump

序号 Serial number	现象 The phenomenon of	原因 Why	排除方法 Elimination merhod
1	电机不转 Motor does not turn	使用电压不对 Wrong voltage	使用正确电压电源 Use the correct voltage power supply
		接线错误 Wrong Wiring	按正确的电气接线图接线 Connect according to the correct electrical wiring diagram
		吸入微细沙粒困死齿轮 Suck in tiny grains of sand and trap the gear	拆除底部齿轮泵清洗（此项必须由专业人士操作） Remove bottom gear pump cleaning (this must be operated by a professional)
2	压力不足 Insufficient pressure.	压力表已损坏 The pressure gauge is damaged	更换压力表 Replace the pressure gauge
		主油管泄漏 Main line leakage	检查注油管，排除泄漏现象 Check the oil injection pipe to eliminate leakage
		油泵加压时有支油管严重出油 When the oil pump is pressurized, the oil comes out seriously	检查更新出油支管的分配器内换向阀 Check and update the reversing valve in the distributor of the oil outlet branch
		油泵溢流阀密封不好 The oil pump overflow valve does not seal well	拆下清洗 Remove and clean
		吸油口处堵塞 The oil swuction is blockage	清洗油箱，吸油口处滤网 Clean the fuel tank and filter at the suction port
3	不出油 don't give oil.	泵内空气未排清 The air in the pump is not cleared	多几次泵油，必要时松开油口再泵油 Pump the oil a few more times, loosen the port and pump the oil if necessary
		电机不转 Motor does not turn	见序号1项 See item 1 of serial number
4	出油量少 the oil quantity is little	吸油口处堵塞 The oil suction port is blocked	清洗吸油口处滤网 Clean the filter at the suction port
		溢流阀密封不好 The overflow valve is not well sealed	取下溢流阀清洗 Remove relief valve cleaning
5	压力开关失灵 Pressure switch malfunction	系统压力不足 Undersystem pressure	检查管路系统压力必须大于1.0MPa Check pipeline system pressure must be greater than 1.0MPa
		接线错误 Wrong wiring	按电气接线图正确接线 Correct wiring according to electrical wiring diagram
6	液位开关失灵 the levelswitch failed	浮球与油箱相碰 The float hit the oil tank.	设法将液位开关位置纠正 Try to correct the position of the liquid level switch
7	油泵电机不停 Oil pump motor	系统PLC控制电源线通电时间过长或电源线没有经过系统PLC控制 System plc control power supply the is too long or the power cord is not passed system plc control	正确设置 Correct setup
		数码管电脑给油时间设置太长 Digital tube computer set too long to oil	正确设置 Correct setup

工业用润滑油制品一览表 List of lubricating oil products for industrial use

名称 Name	用途 Use	形式 Form	IOS规格 IOS specification	粘度 Viscosity	中国石油 PetroChina	Mobil	Esso	Shell
齿轮润滑油	中荷重密闭齿轮	R&O型	VG-32	32	特级循环机油R32	DTE Light	Teresso 32	Turbo T32
			VG-68	68	特级循环机油R68	DTE Heavy medium	Teresso 68	Turbo T68
			VG-150	150	特级机油HD150	DTE Extra Heavy	Teresso 150	Corena H150
	中荷重密闭齿轮蜗齿轮）	极压型	VG-150	150	特级机油HD150	Mobilgaed 629	Spartan EP:150	Corena 150
			VG-320	320	特级机油HD320	Mobilgaed 632	Spartan EP:320	Cmaia 320
			VG-460	460	特级机油HD460	Mobilgaed 64	Spartan EP:460	Cmaia 460
轴承润滑油	主轴、轴承	R&O型	VG-2	2		Velocite 3		
			VG-10	12	特级循环机油R12	Velocite 6	Spinesso 10	Vexilla D10
			VG-22	22	特级循环机油R22	Velocite 22	Spinesso 22	Vexilla D22
滑道面润滑面	滑道面	低磨擦油	VG-68	68	润滑机油滑道68	Vectra NO.2	Febis K68	Tonna T68
			VG-220	220	润滑机油滑道220	Vectra NO.4	Febis K220	Tonna T220
油压作动油	油压装置	R&O型	VG-32	32	特级循环机油R32	DTE Light	Teresso 32	Turbo T32
			VG-68	68	特级循环机油R68	DTE HeaW medium	Teresso 68	Turbo T68
		耐磨装置	VG-32	32	液压油32AW	DTE24	Teresso EP:68	Tellux C32
			VG-68	68	液压油68AW	DTE25	Teresso EP:68	Tellux C68
润滑油脂	轴承	多效型	MLGINO.1		多效油脂NO.1	Mobilux1	Estan NO.1	AlvaniaNO.1
			MLGINO.1		多效油脂NO.2	Mobilux2	Estan NO.2	AlvaniaNO.2