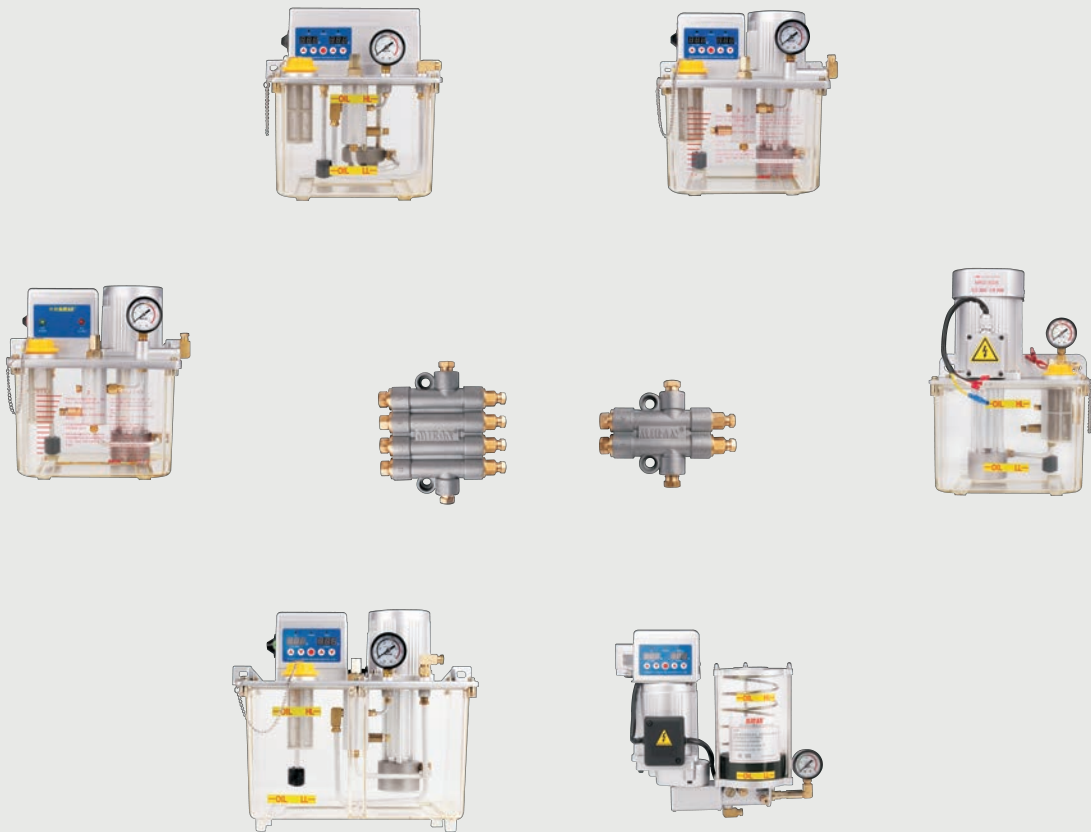


米朗集中润滑系统

MIRAN CENTRALIZED LUBRICATION SYSTEMS



质量第一 用户至上 诚信为本



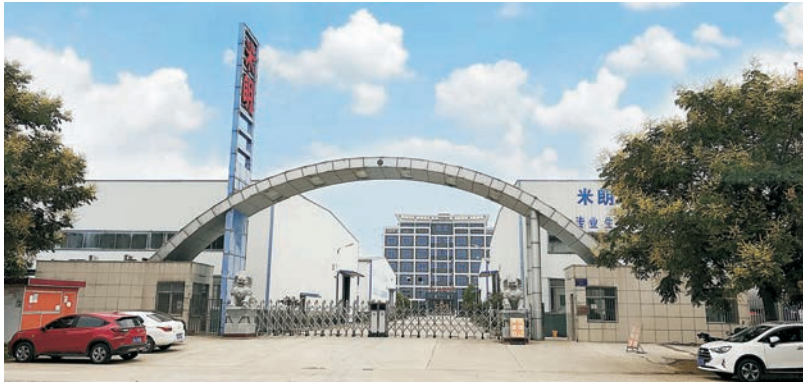
深圳市米朗科技有限公司
Shenzhen Miran Technology Co., Ltd

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深圳市米朗科技有限公司是经深圳市政府认定的高新技术企业。公司总部设立在深圳市光明高新科技园区的核心位置，设有工程部、研发中心、制造部、检测中心、售后服务部、营销部以及遍布全国的直销办事处、代理商和经销商，为广大客户提供周到、及时的服务。公司在湖北省襄阳市有300多亩现代化工业园区，拥有50000多平米的无尘洁净车间，引进现代化制造与检测设备3000余台。公司所有产品均取得CE、3C认证，并获得ISO9001 2008国际质量体系认证，严格按照国际质量认证标准组织设计、生产和销售，确保产品质量、用户满意。

深圳市米朗科技有限公司生产的集中润滑系统主要有干、稀油两大系列各种润滑方式产品，产品广泛用于：工程机械、数控机械、加工中心、电梯、生产线、机床、锻造、锻压、纺织、塑料、木工、橡胶、矿山、冶金、建筑、印刷、食品等行业的机械设备的润滑系统及汽车底盘集中润滑系统，公司润滑系统产品销往全国各地，在国内主要城市设立了多个直属办事处。

我们的优势：

一、强大的生产力量，公司在深圳光明新区和湖北襄阳都设立有大型生产基地，供货及时，现货充足，可以满足大批量订货的需求。

二、完善的销售和售后服务体系。公司立足深圳，在全球各地主要工业聚集地设立多个直属办事机构，并广泛发展代理商和经销商，所有出厂产品均可获得专业的终身维护。

公司秉承“质量第一、用户至上、诚信为本”的宗旨，为客户提供优质的产品和服务。

欢迎广大客户来电、来函、来信，咨询、洽谈、合作或者光临指导。

欢迎广大客户结合自身需求，沟通我司定制相关产品。

Shenzhen Miran Technology Co., LTD. is a high-tech enterprise recognized by shenzhen municipal government. It headquartered in the core position of Shenzhen Guangming High-Tech Park, but has engineering department, r&d, manufacturing department, testing center, after-sale service department, marketing department, and direct sales offices, agents and distributors all over the country, for providing considerate and timely service to our customers. In xiangyang city, hubei province, we have more than 300 acres of modern industrial parks, with more than 50000 square meters of clean workshops, and more than 3,000 modern manufacturing and testing equipment. All products of the company has achieved CE, CCC certification, and obtained ISO9001 2008 international quality system certification. Organize design, production and sales in accordance with international quality certification standards to ensure product quality and customer satisfaction. The production of centralized lubrication system made by Shenzhen Miran Technology Co., LTD. has mainly two big series- dry and thin oil lubrication products. It widely used in engineering machinery, CNC machinery, processing center, elevators, production line, machine tools, forging, textiles, plastics, wood, rubber, mining, metallurgy, construction, printing, food and other industries, and verhicle chassis centralized lubrication system. Our lubrication system products are sold all over the world, and we set up several direct offices in major domestic cities.

Our advantages:

1. Strong production capacity. We have factories both in Shenzhen and Hubei Province, and also a lot of in-stock products in warehouses.

We can meet large demands from our customers, and always deliver the orders on time.

2. Excellent sales & after-sales service. We are headquartered in Shenzhen, and have branches all over China. We guarantee life-long for all products.

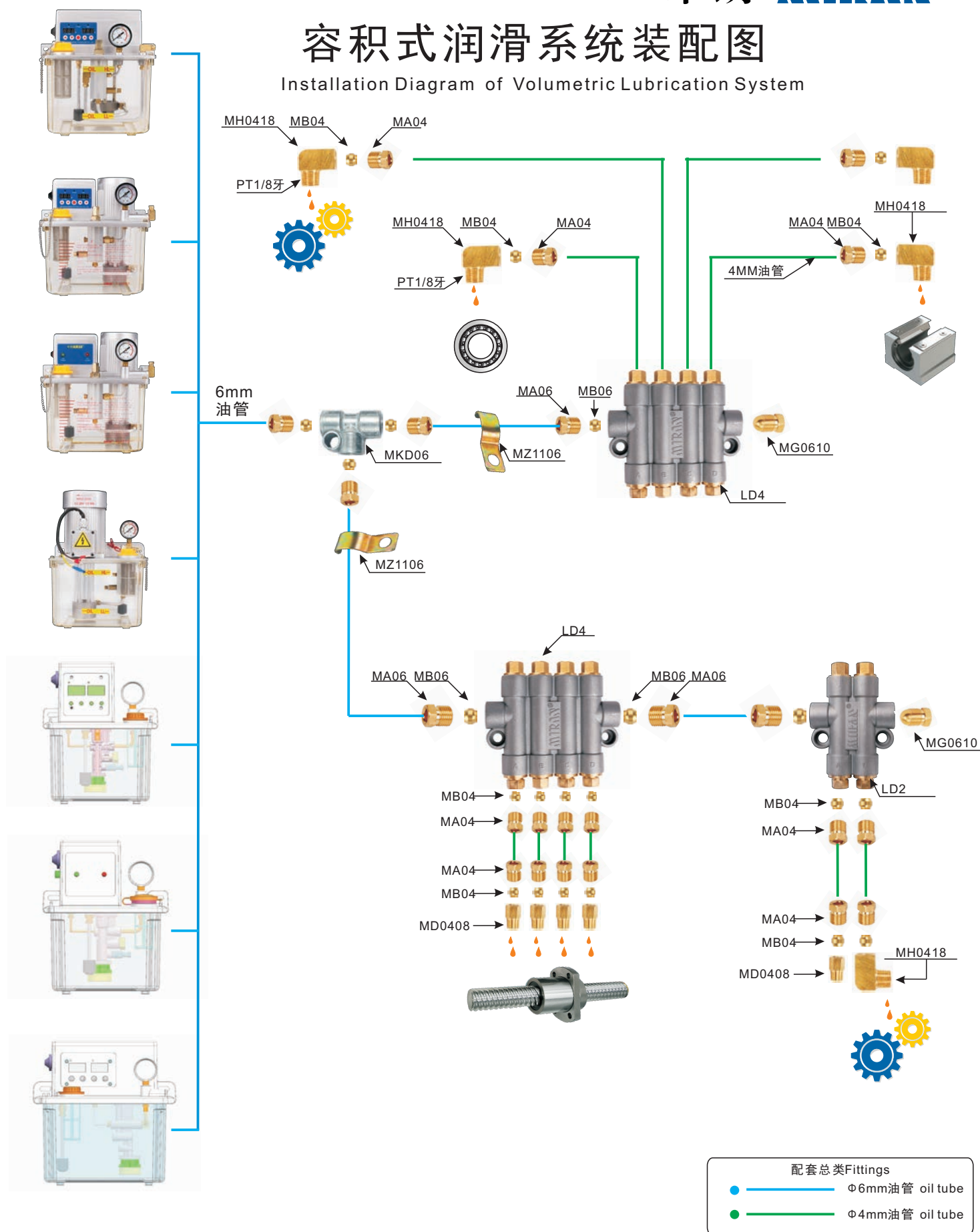
The company adheres to the tenet of "Quality First, Credit First, Customer First", and provides customers with high quality products and services.

Welcome you to call, email, consult, negotiate, cooperate or visit.

Welcome you to customize related products by your needs.

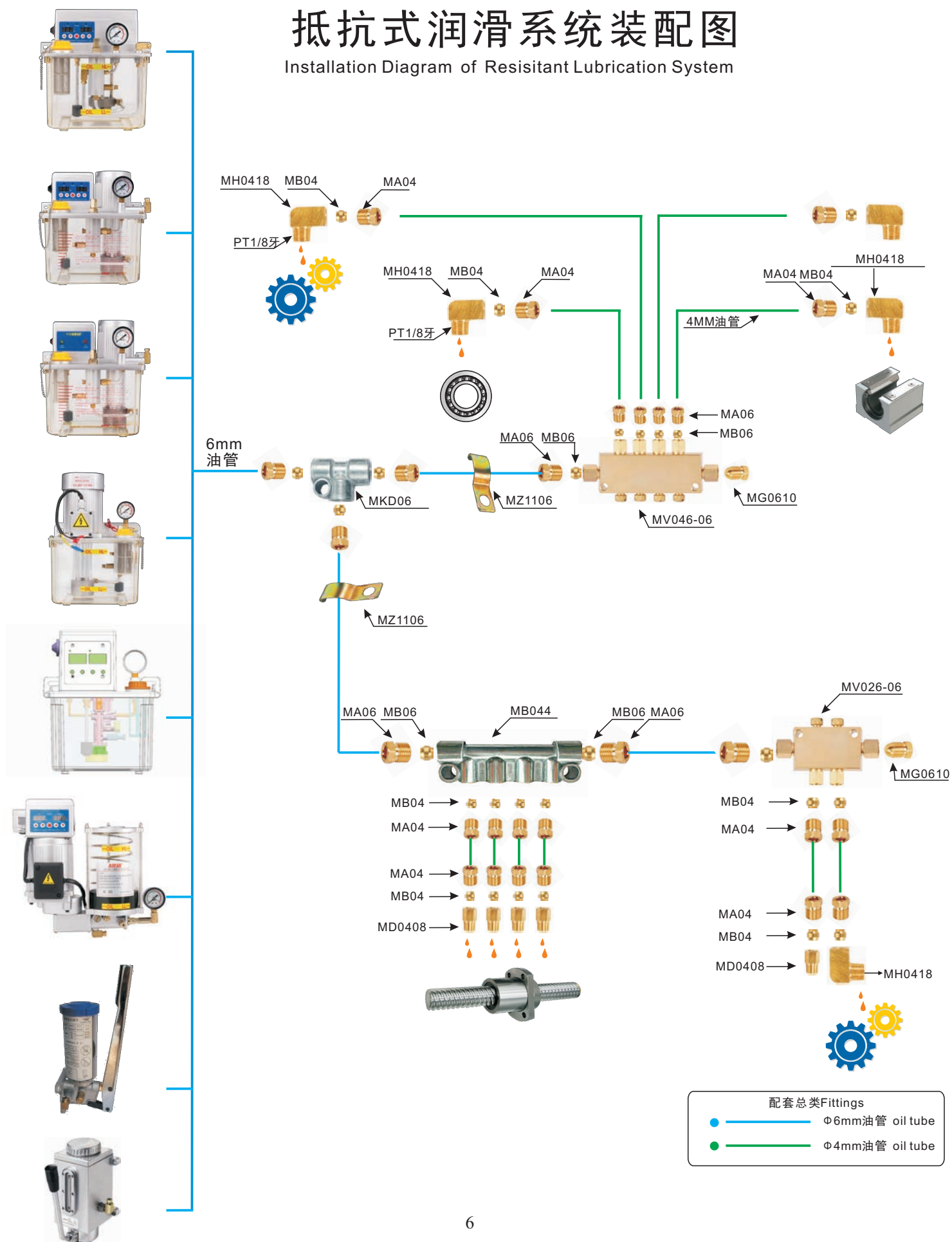
容积式润滑系统装配图

Installation Diagram of Volumetric Lubrication System



抵抗式润滑系统装配图

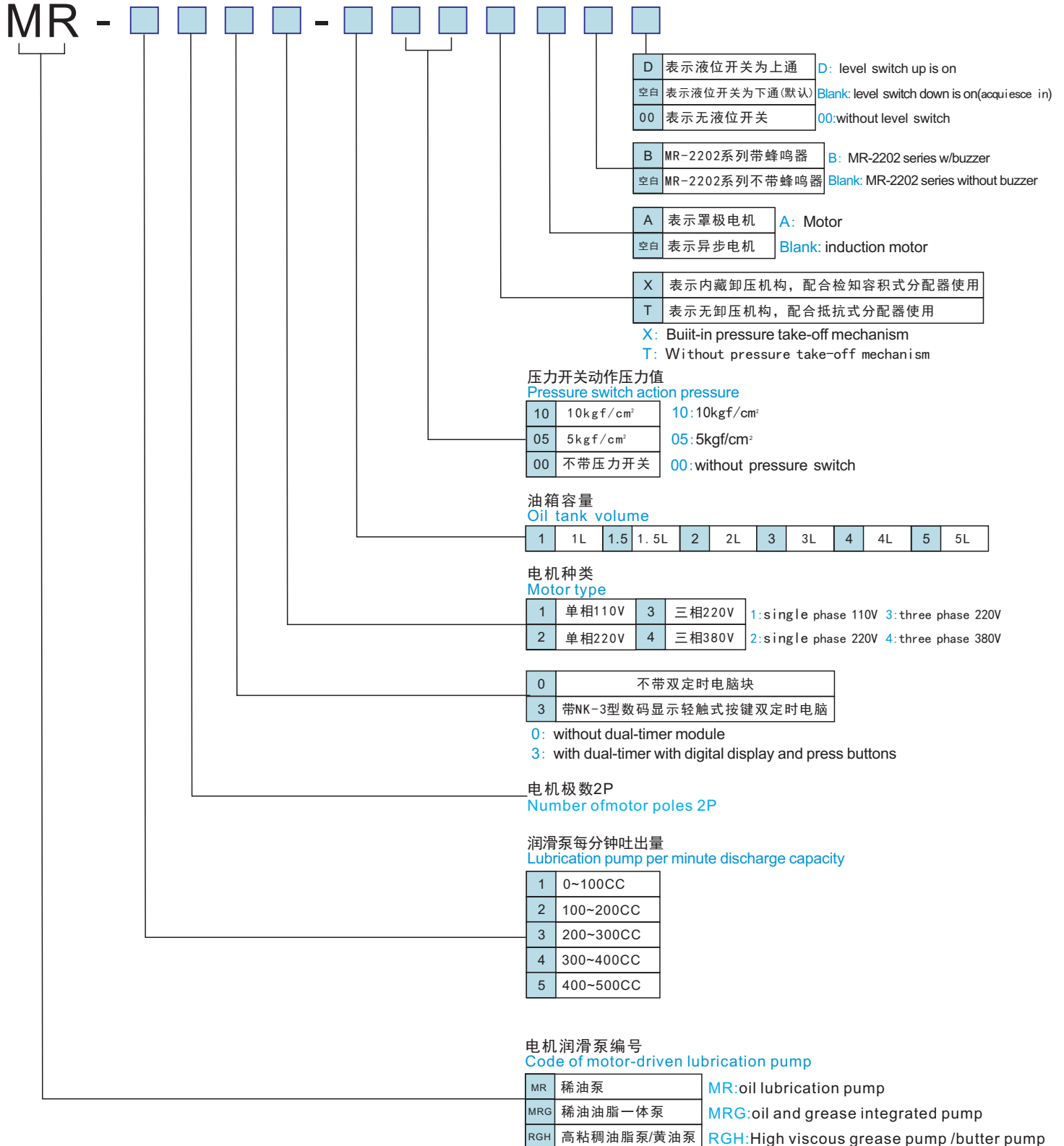
Installation Diagram of Resistant Lubrication System



型号标志及其说明 Model number and explanations

可根据客户需要定做专属润滑方案

Lubrication Program can be customized



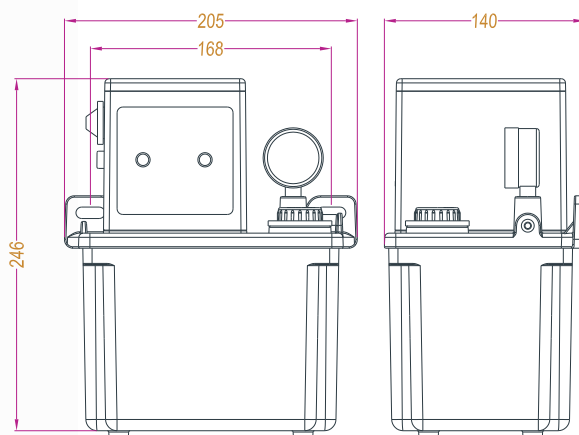
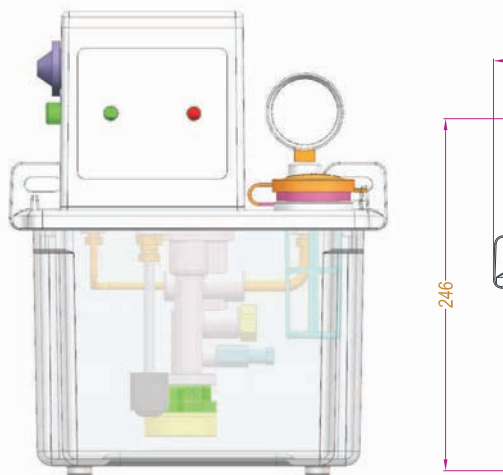
在后面资料中请注意:

- “连续型”代表油泵打油时间可以调成很长时间, 比如油泵可一直打油5分钟不间断, 电机不会过热, 不会因电机过热保护停止打油。
- 5L塑胶油箱半自动稀油泵和5L塑胶油箱全自动稀油泵也为常规产品, 后面资料并未列举。
- 油箱材质可以按照客户要求定制, 如铁或铝等。

MR-22022 (2L)

稀油电动润滑油泵PLC型

Oil Lubrication Pump Controlled by PLC Type



技术参数Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MR-2202-200T	220V 50/60HZ	2400	18W	0.12	18	35	2L	200-300	30-1000	MR2201 代表电压 110V
MR-2202-200X	220V 50/60HZ									MR2202 代表电压 220V
MR-2202-210X	220V 50/60HZ									

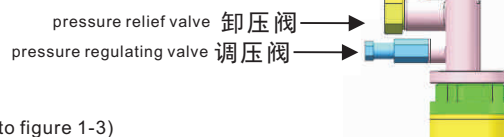
*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

性能与特点Performance characteristics

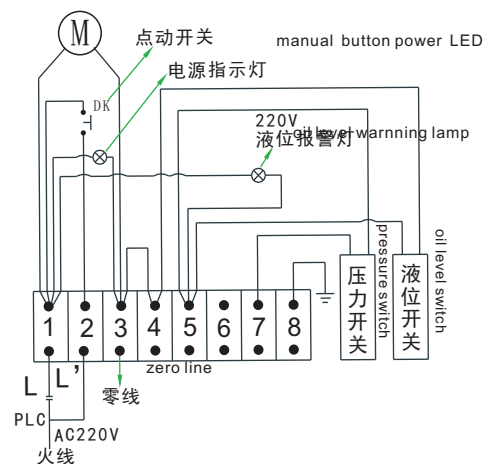
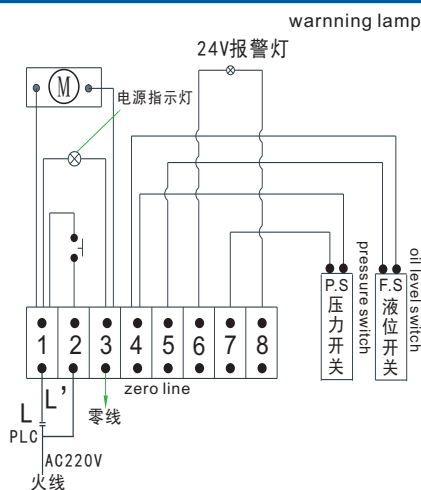
1. 供油和间歇时间同主机电脑控制设定。
2. 油箱容量有2、3、4、5升等，吐出量200-300ml/min,油箱有目视油位计和自动控油装置，当油量不足时，红灯亮，提醒加油。
3. 油泵里面内设两个阀（一个调压阀，一个卸压阀），如右图。
4. 可根据客户需求定制专属金属油箱。
(可根据客户需要定做专属润滑方案)

1. Oil supply and intermittent time are adjustable by PC controller.
2. With the out of oil 200-300CC/min, the oil tank capacity has 2, 3 and 4 litre, etc. There are oil level gauge and automatic oil control device on the oil tank. The red light is on when the oil quantity is insufficient, which reminds you to fill it up.
3. There are two valves in the oil pump, pressure regulating valve and unloading valve. (refer to figure 1-3)
4. Metal oil tank can be customized.
(specific lubrication plan can be customized)



接线图The wiring diagram

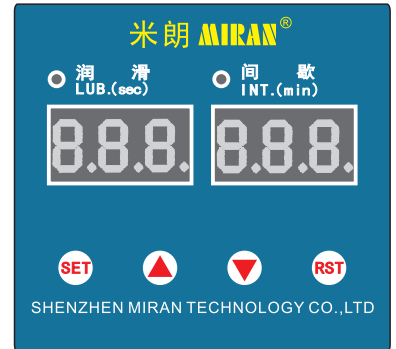
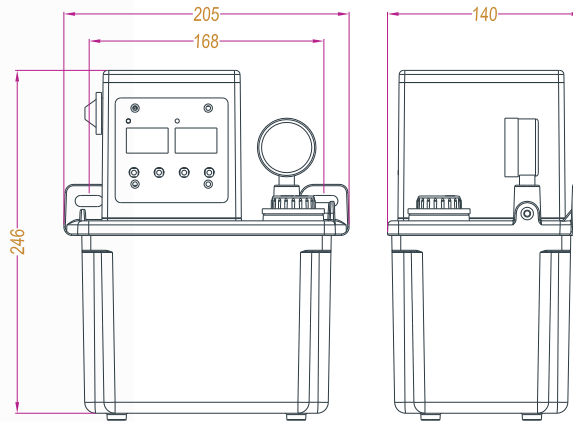
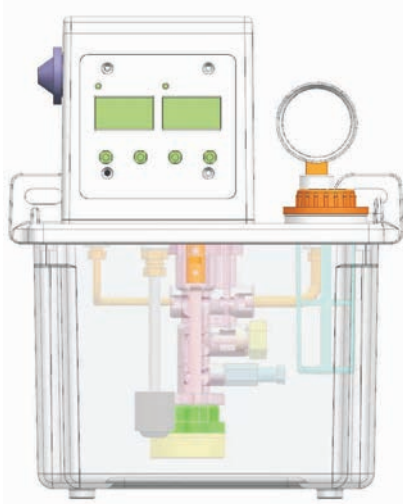
* 接线方式可根据用户需求设计
Wire Connection can be Customized



MR-22322 (2L)

稀油电动润滑油泵微电脑型

Self-control electric oil lubrication pump



产品规格及技术参数Product specifications

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MR-2232-200T	220V 50/60HZ	2400	18W	0.12	18	35	2L	200-300	30-1000	MR2231代表 电压110V MR2232代表 电压220V
MR-2232-200X	220V 50/60HZ									
MR-2232-210X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

使用方法Method of use

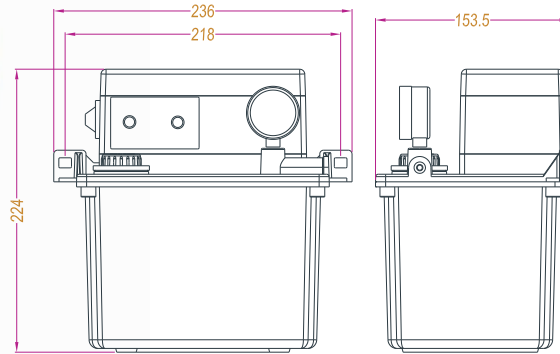
1. 工作时间：长按SET键，见“润滑”显示屏数字在跳动时，松开SET键，按▲▼键设定个位数；按下SET键，按▲▼键设定十位数；再按下SET键，按▲▼键设定百位数（1-999秒）。
2. 间歇时间：长按SET键，见“间歇”显示屏数字在跳动时，松开SET键，按▲▼键设置个位数；按下SET键，按▲▼键设定十位数；再按下SET键，按▲▼键设定百位数；同时按键▲▼约2秒，间歇时间可分/秒转换（1-999分或1-999秒）；也可定制为：同时按▲▼键约2秒，间歇时间可分/小时转换（1-999分或1-999小时）。
3. RST键，按一下此键可重新润滑或清除异常报警信号。
4. 电路电源接通后系统属于给油状态，并进入LUB、INT循环，供油时左边LUB绿灯亮，间歇时右边INT红灯亮。
5. ERO 闪烁时代表油量不足，ERP闪烁时代表压力异常。
6. 数显中框内设有断电记忆功能，打开小开关进入断电记忆。关闭小开关，断电记忆停止。
7. 数显框内设有按键锁功能，可根据自行需要，设置好时间后是否需锁住设置按键。
(可根据客户需要定做专属润滑方案)

1. Working time: press and hold the SET button, release it when the numbers jump, then press ▲▼ to set unit digit; and press the button of SET again, to set ten digit with pressing ▲▼; press SET to hundreds digit(1~999 seconds).
2. Interval time: press and hold the SET button, release it when the numbers in other Display screen jump, then press ▲▼ to set unit digit; and press the button of SET for two seconds, the interval time can shift between minutes and second(1~999 minutes or 1~999 seconds).
3. RST: Press and hold this key to relubricate or clear the abnormal alarm.
4. After the circuit power is turned on, the system belongs to the oil supply state, and enters the LUB, INT cycle. When the fuel is supply, the left LUB green light is on, the right INT red light is on when the system is on rest.
5. When the ERO flashes, it means that the amount of oil is insufficient, and when the ERP flashes, it means that the pressure is abnormal.
6. There is no power-off memory function in the digital display box, and a small switch is turned on to enter the power-off memory. Turn off the small switch, and the power off memory stops.
7. There is a key lock function in the digital display box. You can lock the set button after setting the time according to your needs.
(The lubrication program Can be customized according to customers' requirements)

MR-22023 (3L)

稀油电动润滑油泵PLC型

Oil Lubrication Pump Controlled by PLC Type



产品规格及技术参数Product specifications

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MR-2202-300T	220V 50/60HZ	2400	18W	0.12	18	35	3L	200-300	30-1000	MR2231代表 电压110V
MR-2202-300X	220V 50/60HZ									MR2232代表 电压220V
MR-2202-310X	220V 50/60HZ									

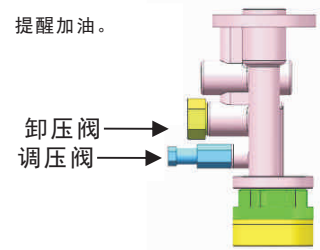
*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

性能与特点Performance characteristics

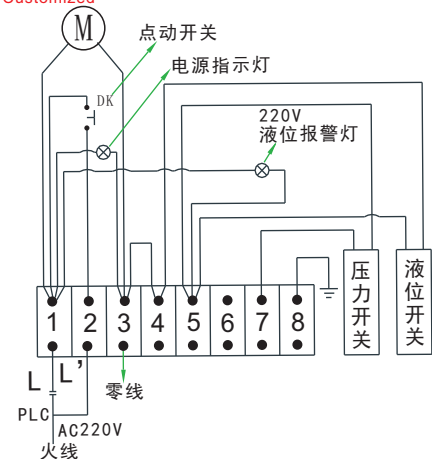
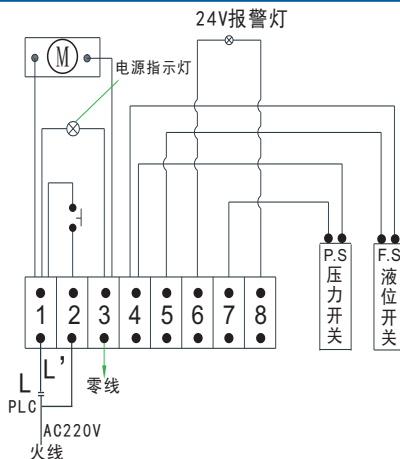
1. 供油和间歇时间同主机电脑控制设定。
2. 油箱容量有2、3、4、5升等，吐出量200-300ml/min;油箱有目视油位计和自动控油装置，当油量不足时，红灯亮，提醒加油。
3. 油泵里面内设两个阀（一个调压阀，一个卸压阀），如右图。
4. 可根据客户需求定制专属金属油箱。
(可根据客户需求定做专属润滑方案)

1. Oil supply and intermittent time are adjustable by PC controller.
2. With the out of oil 200-300CC/min, the oil tank capacity has 2, 3 and 4 litre, etc. There are oil level gauge and automatic oil control device on the oil tank. The red light is on when the oil quantity is insufficient, which reminds you to fill it up.
3. There are two valves in the oil pump, pressure regulating valve and unloading valve. (refer to figure 1-3)
4. Metal oil tank can be customized.
(specific lubrication plan can be customized)



接线图The wiring diagram

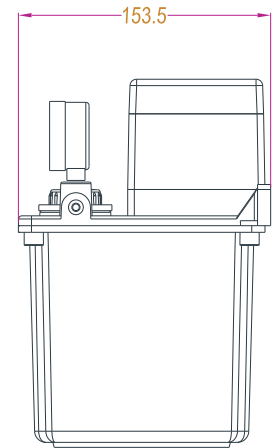
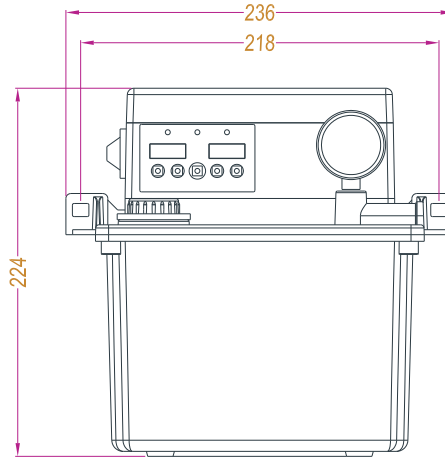
* 接线方式可根据用户需求设计
Wiring Connection can be Customized



MR-22323 (3L)

稀油电动润滑油泵微电脑型

Self-control Oil Lubrication Pump



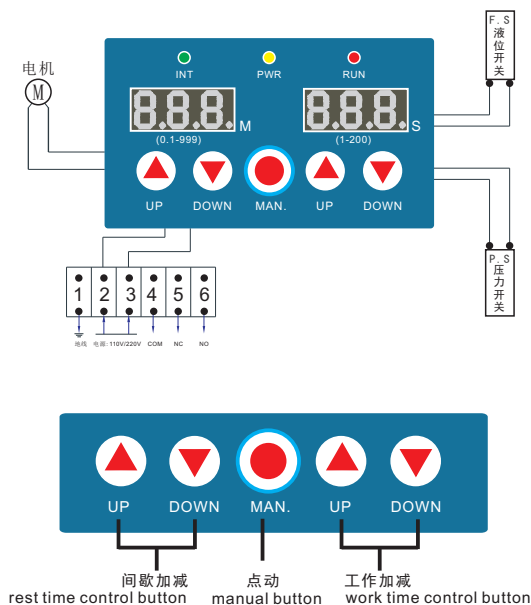
技术参数 Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MR-2232-300T	220V 50/60HZ	2400	18W	0.12	18	35	3L	200-300	30-1000	MR2231代表 电压110V Mr2232代表 电压220V
MR-2232-300X	220V 50/60HZ									
MR-2232-310X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

接线图 The wiring diagram



性能与特点 Performance characteristics

1. 加油时间由控制面板右侧的上升（UP延长时间）和下降（DOWN缩短时间）按键设定，最长加油时间可达200秒，精度为1秒。间歇时间由控制面板左侧的上升（UP延长时间）和下降（DOWN缩短时间）按键设定，间歇时间最长可达999分钟，最短为0.1分钟，精度为0.1分钟。时间设定时，按一次按键，跳动数为1，按住按放键不，跳动可以加速，所有设定在设定完成后或按手动（Man）按键后，即刻生效。
2. 当油泵显示ERP报警时，表示压力不足，检查压力正常时，按一下（Man）按键，消除报警。
3. 当油泵显示ERO时，表示油量不足，加油后自动消除报警。
4. 按住（Man）按键不放为点动测试，可一直出油。

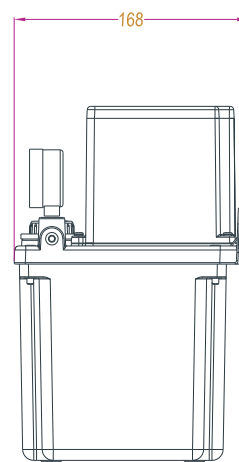
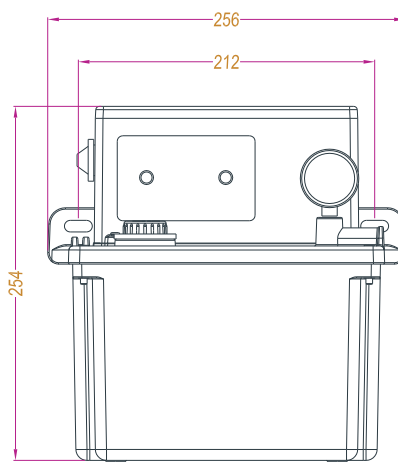
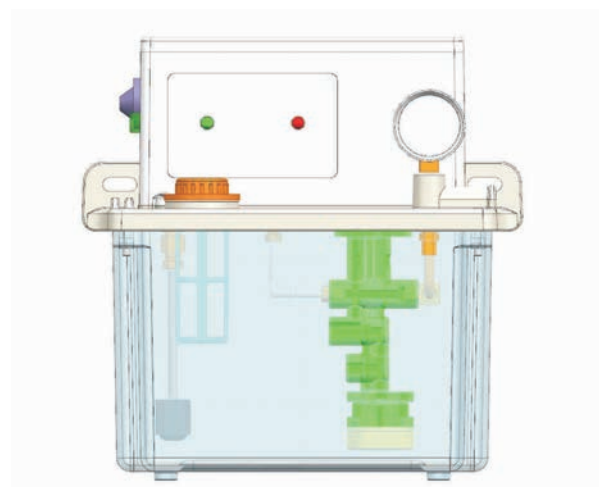
（可根据客户需要定做专属润滑方案）

1. Fuel supply time is set by the UP button(extending the time) and DOWN button(shortening the time) on the right side of the control panel, which can reach up to 200 seconds, with the precision of 1 second. Intermittent time is set by the UP button(extending the time) and DOWN button(shortening the time) on the left side of the control panel, which can reach up to 999 minutes, with the precision of 0.1 minute. When setting the time, the beat number is 1 if you press the button once. The beat number can be accelerated if you hold down the button. All the settings will take effect immediately after the setting is completed or after the Man button is pressed.
2. When the oil pump shows the EPR alarm, it indicates that the pressure is insufficient. If the the pressure is normal, press the Man button to eliminate the alarm.
3. When the oil pump shows the ERO alarm, the oil quantity is insufficient, and the alarm will be automatically eliminated after refueling .
4. Holding down the Man button is manual test.

(specific lubrication plan can be customized)

MR-2202B(4L)

稀油电动润滑油泵PLC型 Oil Lubrication Pump Controlled by PLC Type



技术参数Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MR-2202B-400T	220V 50/60HZ	2400	18	0.12	18	35	4L	200-300CC	30-1000	MR2201B代表 电压110V MR2202B代表 电压220V
MR-2202B-400X	220V 50/60HZ									
MR-2202B-410X	220V 50/60HZ									

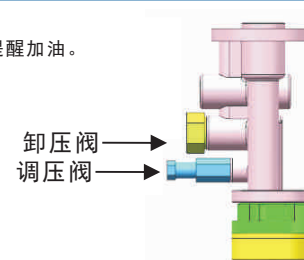
*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

性能与特点Performance characteristics

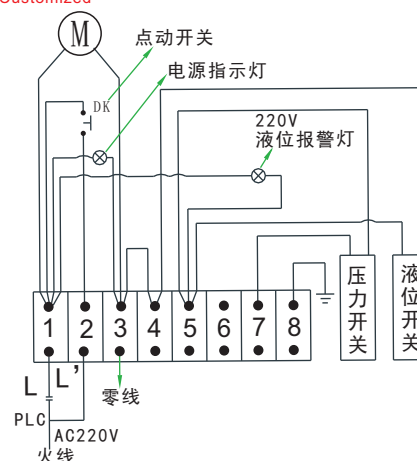
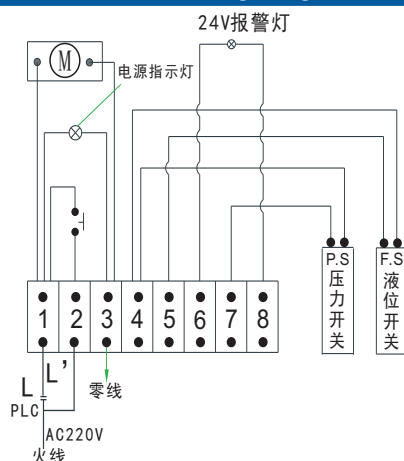
1. 供油和间歇时间同主机电脑控制设定
2. 油箱容量油2、3、4升等，吐出量200-300CC/min,油箱有目视油位计和自动控油装置，当油量不足时，红灯亮，提醒加油。
3. 油泵里面内设两个阀（一个调压阀，一个卸压阀）图(1-3)。
4. 可根据客户需求定制专属金属油箱。
(可根据客户要求定做专属润滑方案)

1. Oil supply and intermittent time are adjustable by PC controller.
2. With the out of oil 200~300CC/min, the oil tank capacity has 2, 3 and 4 litre, etc. There are oil level gauge and automatic oil control device on the oil tank. The red light is on when the oil quantity is insufficient, which reminds you to fill it up.
3. There are two valves in the oil pump, pressure regulating valve and unloading valve. (refer to figure 1-3)
4. Metal oil tank can be customized.
(specific lubrication plan can be customized)



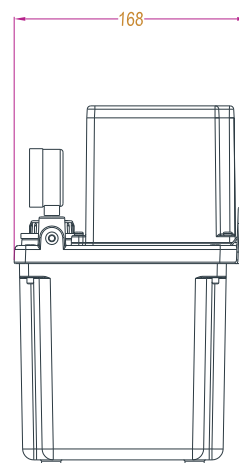
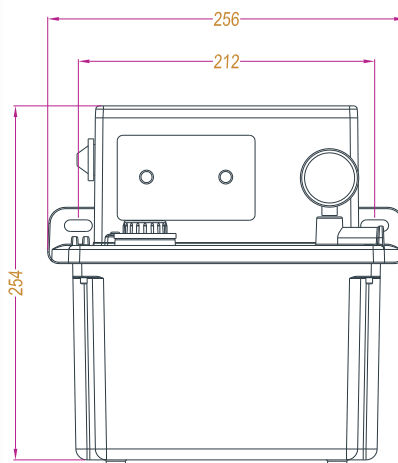
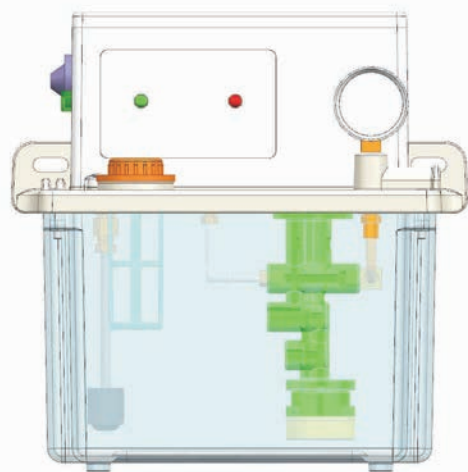
接线图The wiring diagram

* 接线方式可根据用户需求设计
Wiring Connection can be Customized



MR-2202连续型 (4L)

稀油电动润滑油泵PLC型 Oil Lubrication Pump Controlled by PLC Type



技术参数 Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MR-2202-400T	220V 50/60HZ	2800转/ 50HZ-60HZ	25	0.22	20	50	4L	200-300CC	30-1000	Mr2231代表 电压110V MR2232代表 电压220V
MR-2202-400X	220V 50/60HZ									
MR-2202-410X	220V 50/60HZ									

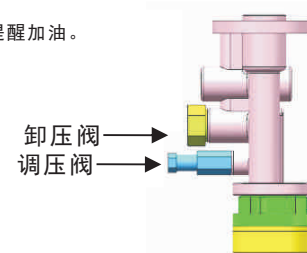
*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

性能与特点 Performance characteristics

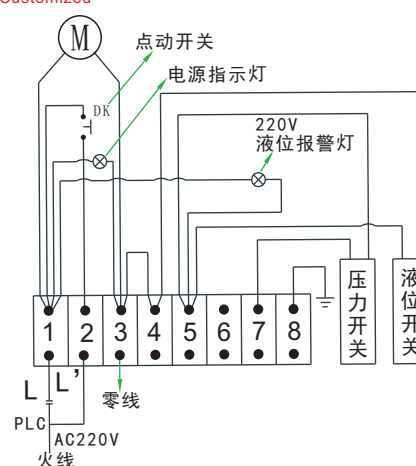
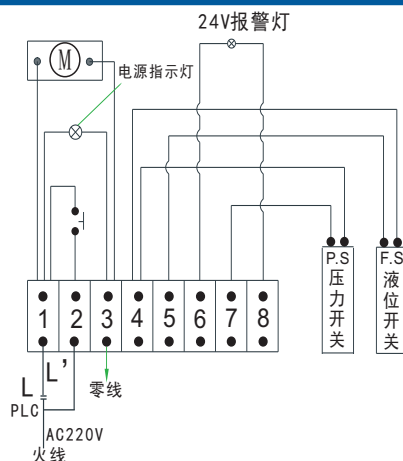
1. 供油和间歇时间同主机电脑控制设定
2. 油箱容量油2、3、4升等，吐出量200-300CC/min, 油箱有目视油位计和自动控油装置，当油量不足时，红灯亮，提醒加油。
3. 油泵里面内设两个阀（一个调压阀，一个卸压阀）图（1-3）。
4. 可根据客户需求定制专属金属油箱。
(可根据客户要求定做专属润滑方案)

1. Oil supply and intermittent time are adjustable by PC controller.
2. With the out of oil 200-300CC/min, the oil tank capacity has 2, 3 and 4 litre, etc. There are oil level gauge and automatic oil control device on the oil tank. The red light is on when the oil quantity is insufficient, which reminds you to fill it up.
3. There are two valves in the oil pump, pressure regulating valve and unloading valve. (refer to figure 1-3)
4. Metal oil tank can be customized.
(specific lubrication plan can be customized)



接线图 The wiring diagram

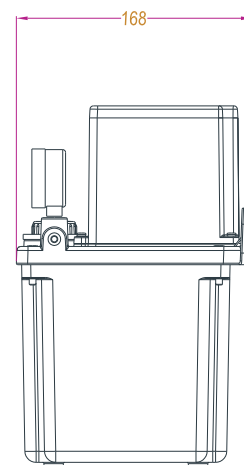
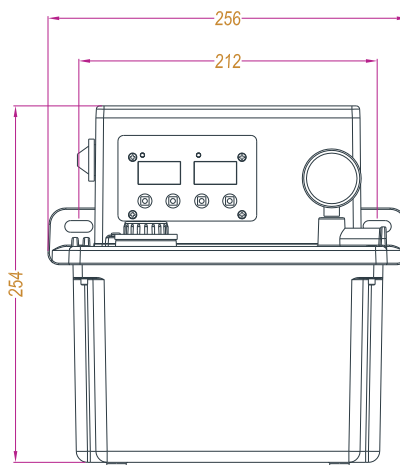
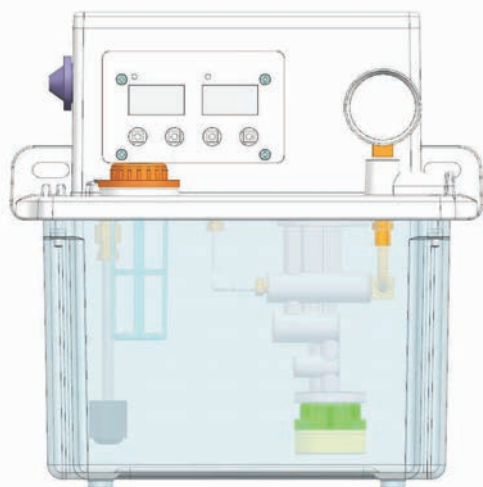
* 接线方式可根据用户需求设计
Wiring Connection can be Customized



MR-2232B (4L)

稀油电动润滑油泵微电脑型

Self-control electric oil lubrication pump



技术参数Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max.pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MR-2232B-400T	220V 50/60HZ	2400	18	0.12	18	35	4L	200-300CC	30-1000	MR2231B代表 电压110V MR2232B代表 电压220V
MR-2232B-400X	220V 50/60HZ									
MR-2232B-410X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

使用方法Method of use

1. 工作时间：请长按SET键，见数字在跳动时，松开SET键，按▲▼键设定个位数；按下SET键，按▲▼键设定十位数；再按下SET键，一下SET键设定百位数（1-999秒）。
2. 间歇时间：请长按SET键，见另一个显示屏数字在跳动时，松开SET键，按键▲▼键设置个位数；按一下SET键，同时按键▲▼约2秒，间歇时间可分秒转换（1-999分或1-999秒）。
3. RST 键 按住此键可重新润滑或清除异常报警。
4. 电路电源接通后系统属于给油状态，并进入LUB、INT循环，供油时左边LUB绿灯亮，间歇时右边INT红灯亮。
5. ERO 闪烁时代表油量不足，ERP闪烁时代表压力异常。
6. 数显中框内没有断电记忆功能，打开小开关进入断电记忆。关闭小开关，断电记忆停止。
7. 数显框内设有按键锁功能，可根据自行需要设置好时间后是否需锁住设置按键。

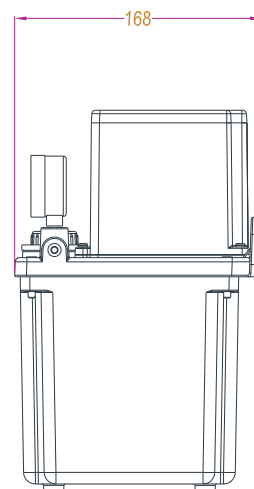
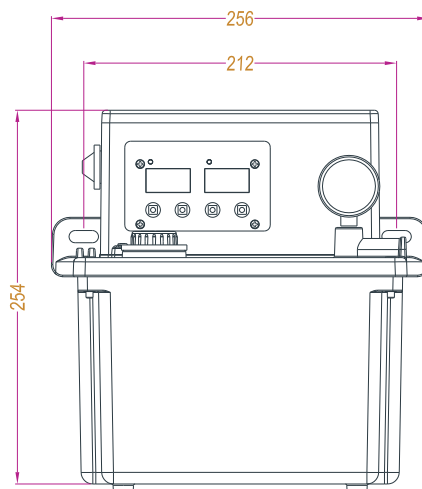
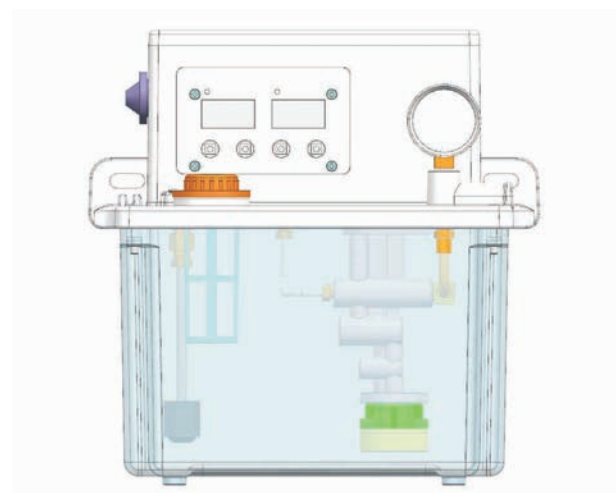
（可根据客户需要定做专属润滑方案）

1. Working time: press and hold the SET button, release it when the numbers jump, then press ▲▼ to set unit digit; and press the button of SET again, to set ten digit with pressing ▲▼; press SET to hundreds digit(1~999 seconds).
2. Interval time: press and hold the SET button, release it when the numbers in other Display screen jump, then press ▲▼ to set unit digit; and press the button of SET for two seconds, the interval time can shift between minutes and second(1~999 minutes or 1~999 seconds).
3. RST: Press and hold this key to relubricate or clear the abnormal alarm.
4. After the circuit power is turned on, the system belongs to the oil supply state, and enters the LUB, INT cycle. When the fuel is supply , the left LUB green light is on, the right INT red light is on when the system is on rest.
5. When the ERO flashes, it means that the amount of oil is insufficient, and when the ERP flashes, it means that the pressure is abnormal.
6. There is no power-off memory function in the digital display box, and a small switch is turned on to enter the power-off memory. Turn off the small switch, and the power off memory stops.
7. There is a key lock function in the digital display box. You can lock the set button after setting the time according to your needs.

(The lubrication program Can be customized according to customers' requirements)

MR-2232连续型(4L)

稀油电动润滑油泵微电脑型 Self-control electric oil lubrication pump



技术参数Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MR-2232-400T	220V 50/60HZ	2800	25	0.22	20	50	4L	200-300CC	30-1000	MR2231代表 电压110V
MR-2232-400X	220V 50/60HZ									Mr2232代表 电压220V
MR-2232-410X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

性能与特点Performance characteristics

1. 工作时间：请长按SET键，见数字在跳动时，松开SET键，按▲▼键设定个位数；按下SET键，按▲▼键设定十位数；再按下SET键，一下SET键设定百位数（1-999秒）。
2. 间歇时间：请长按SET键，见另一个显示屏数字在跳动时，松开SET键，按键▲▼键设置个位数；按一下SET键，同时按键▲▼约2秒，间歇时间可分秒转换（1-999分或1-999秒）。
3. RST 键 按住此键可重新润滑或清除异常报警。
4. 电路电源接通后系统属于给油状态，并进入LUB、INT循环，供油时左边LUB绿灯亮，间歇时右边INT红灯亮。
5. ERO 闪烁时代表油量不足，ERP闪烁时代表压力异常。
6. 数显中框内没有断电记忆功能，打开小开关进入断电记忆。关闭小开关，断电记忆停止。
7. 数显框内设有按键锁功能，可根据自行需要设置好时间后是否需锁住设置按键。

（可根据客户需要定做专属润滑方案）

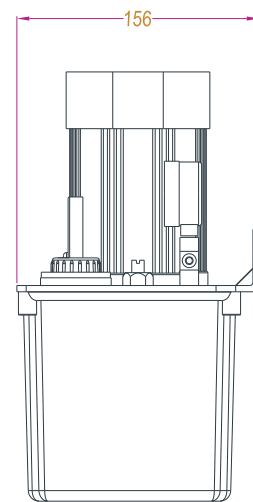
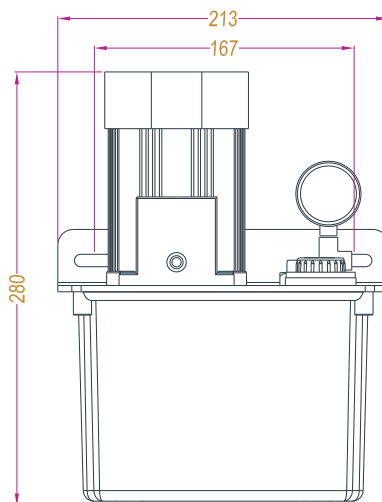
1. Working time: press and hold the SET button, release it when the numbers jump, then press ▲▼ to set unit digit; and press the button of SET again, to set ten digit with pressing ▲▼; press SET to hundreds digit(1~999 seconds).
2. Interval time: press and hold the SET button, release it when the numbers in other Display screen jump, then press ▲▼ to set unit digit; and press the button of SET for two seconds, the interval time can shift between minutes and second(1~999 minutes or 1~999 seconds).
3. RST: Press and hold this key to relubricate or clear the abnormal alarm.
4. After the circuit power is turned on, the system belongs to the oil supply state, and enters the LUB, INT cycle. When the fuel is supply , the left LUB green light is on, the right INT red light is on when the system is on rest.
5. When the ERO flashes, it means that the amount of oil is insufficient, and when the ERP flashes, it means that the pressure is abnormal.
6. There is no power-off memory function in the digital display box, and a small switch is turned on to enter the power-off memory. Turn off the small switch, and the power off memory stops.
7. There is a key lock function in the digital display box. You can lock the set button after setting the time according to your needs.

(The lubrication program Can be customized according to customers' requirements)

MRG-5202(3L)

稀油油脂一体润滑油泵PLC型

Automatic Grease and Thin Oil Lubrication Pump with PLC Type



技术参数Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated ritary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MRG-5202-300T	220V 50/60HZ	2800	60/90	60W:0.45 90W:0.32	25	50	3L	400-500CC	00# 000#	MRG5202代 表电压220V MRG5203代 表电压380V
MRG-5202-300X	220V 50/60HZ									
MRG-5202-310X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

性能与特点Performance characteristics

1. 使用全新稀油或00#油脂，禁止使用0#及浓油脂。
2. 禁止使用旧油，否则容易造成油路堵塞，机械零件磨损，影响油泵运行。
3. 适用于抵抗式，加压式或递进式黄油分配器配套使用。
4. 禁止无油启动，以免损坏电机。
5. 齿轮泵上的吊座有一个调压阀体，可调整压力。
6. 可根据客户需求定制专属金属油箱。

(可根据客户需要定做专属润滑方案)

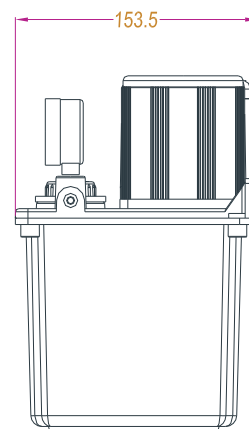
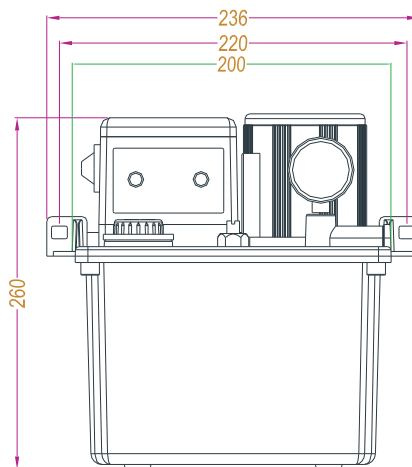
1. Using new thin oil or 00 # grease, prohibit to use 0 # and concentrated grease.
2. It is forbidden to use old oil, otherwise it will cause oil road blockage, mechanical parts wear and affect the operation of the oil pump.
3. Suitable for resistive, pressurized or progressive butter dispensers.
4. Do not start without oil so as not to damage the motor.
5. The suspension seat on the gear pump has a pressure regulator body to adjust the pressure.
6. Metal tanks can be customized according to customer needs.

(The lubrication program Can be customized)

MRG-3202(3L)

稀油油脂一体润滑油泵PLC型

Automatic Grease and Thin Oil Lubrication Pump with PLC Type



技术参数Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed r/min	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MRG-3202-300T	220V 50/60HZ	1350	25	0.22	20	35	3L	300-500CC	00#000#	MRG2231代表 电压110V
MRG-3202-300X	220V 50/60HZ									MRG2232代表 电压220V
MRG-3202-310X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式

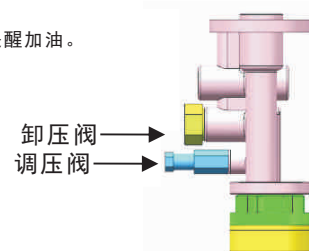
*mode name with "T" is resistant, mode name with "X" is volumetric

性能与特点Performance characteristics

1. 供油和间歇时间同主机电脑控制设定
2. 油箱容量油2、3、4升等，吐出量200-300CC/min, 油箱有目视油位计和自动控油装置，当油量不足时，红灯亮，提醒加油。
3. 油泵里面内设两个阀（一个调压阀，一个卸压阀）图(1-3)。
4. 可根据客户需求定制专属金属油箱。
(可根据客户需求定做专属润滑方案)

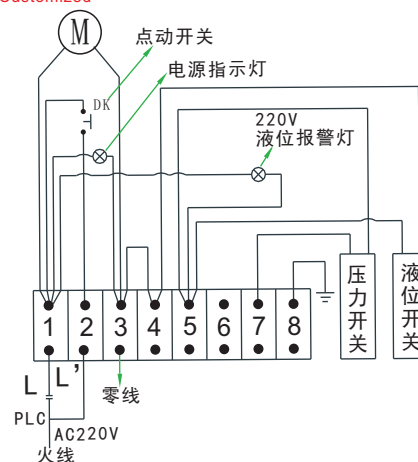
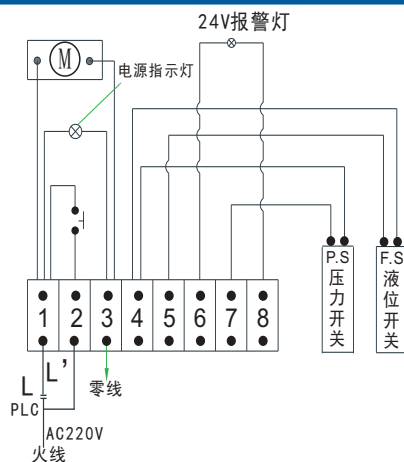
1. Oil supply and intermittent time are adjustable by PC controller.
2. With the out of oil 200-300CC/min, the oil tank capacity has 2, 3 and 4 litre, etc. There are oil level gauge and automatic oil control device on the oil tank. The oil quantity is insufficient when the red light is on, which reminds you to fill it up.
3. There are two valves in the oil pump, pressure regulating valve and unloading valve.
4. Metal oil tank can be customized.

(specific lubrication plan can be customized)



接线图The wiring diagram

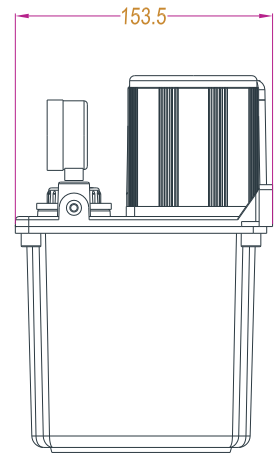
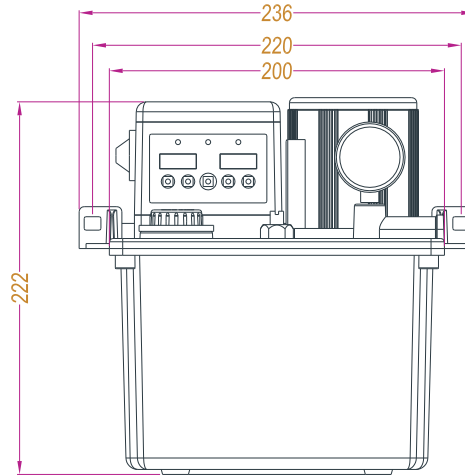
* 接线方式可根据用户需求设计
Wiring Connection can be Customized



MRG-3232 (3L)

稀油油脂一体润滑油泵微电脑型

Self-control Grease and Thin Oil Lubrication Pump



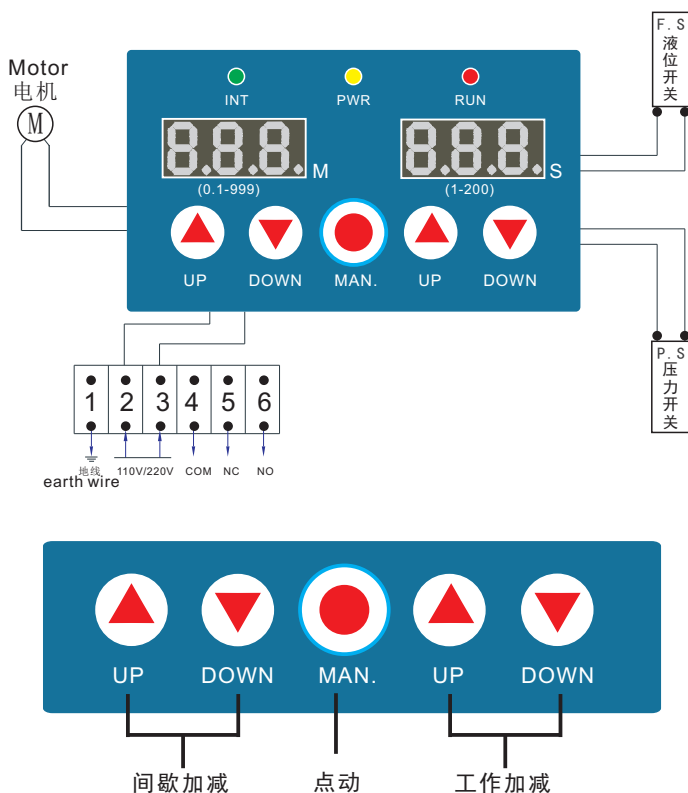
技术参数 Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed r/min	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MRG-3232-300T	220V 50/60HZ	1350	25	0.22	20	35	3L	300-500CC	00#000#	MRG2231代表 电压110V
MRG-3232-300X	220V 50/60HZ									MRG2232代表 电压220V
MRG-3232-310X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

控制面板设置图 Setup Diagram on Control Panel



性能与特点 Performance characteristics

1. 加油时间由控制面板右侧的上升 (UP延长时间) 和下降 (DOWN缩短时间) 按键设定，最长加油时间可达200秒，精度为1 秒。间歇时间由控制面板左侧的上升 (UP延长时间) 和下降 (DOWN缩短时间) 按键设定，间歇时间最长可达999分钟，精度为0.1分钟。时间设定时按一次按键，跳动数为1，按住按键不放，跳动可以加速，所有设定在设定完成后或按手动 (Man) 按键后，即刻生效。
2. 当油泵显示ERP报警时，表示压力不足，检查压力正常时，轻按一下 (Man) 按键，消除报警。
3. 当油泵显示ERO时，表示油量不足，加油后自动消除报警。
4. 按住 (Man) 按键不放为点动测试。
(可根据客户需要定做专属润滑方案)

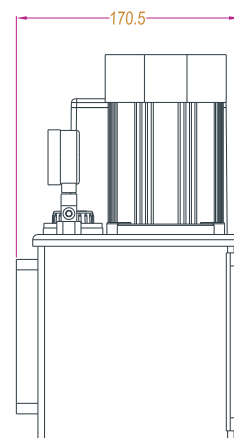
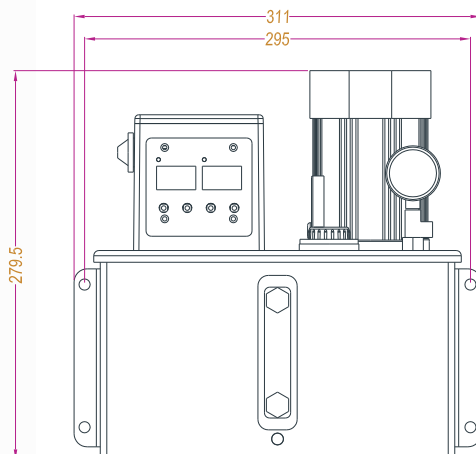
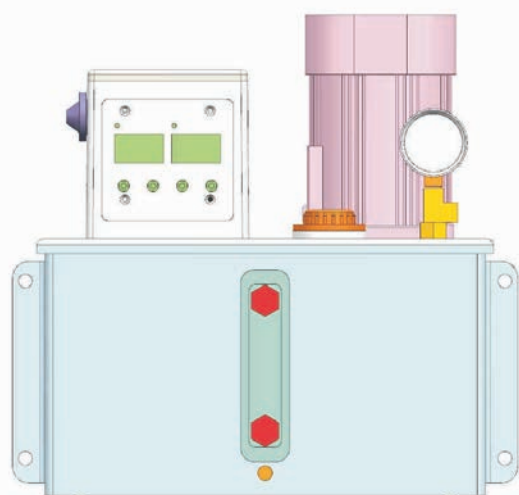
1. Fuel supply time is set by the UP button (extending the time) and DOWN button (shortening the time) on the right side of the control panel, which can reach up to 200 seconds, with the precision of 1 second. Intermittent time is set by the UP button (extending the time) and DOWN button (shortening the time) on the left side of the control panel, which can reach up to 999 minutes, with the precision of 0.1 minute. When setting the time, the beat number is 1 if you press the button once. The beat number can be accelerated if you hold down the button. All the settings will take effect immediately after the setting is completed or after the Man button is pressed.
2. When the oil pump shows the EPR alarm, it indicates that the pressure is insufficient. If the the pressure is normal, press the Man button to eliminate the alarm.
3. When the oil pump shows the ERO alarm, the oil quantity is insufficient, and the alarm will be automatically eliminated after refueling.
4. Holding down the Man button is dynamic test.
(specific lubrication plan can be customized)

MRG5232 (4L)

下图为金属油箱，材质为铁或铝。
4L塑胶油箱也是常规产品。

稀油油脂电动一体润滑油泵微电脑型

Self-controlled Grease and Thin Oil Lubrication Pump



技术参数 Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MRG-5232-400T	220V 50/60HZ	2800	60/90	60W: 0.45 90W: 0.32	25	60	4L	400-500CC	00# 000#	MRG5232代 表电压220V MRG5233代 表电压380V
MRG-5232-400X	220V 50/60HZ									
MRG-5232-410X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

使用方法 Methods

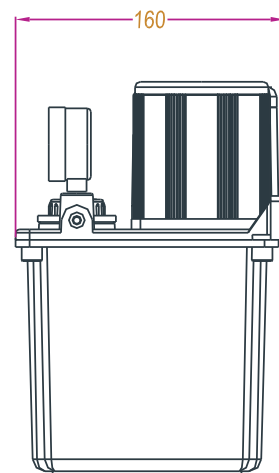
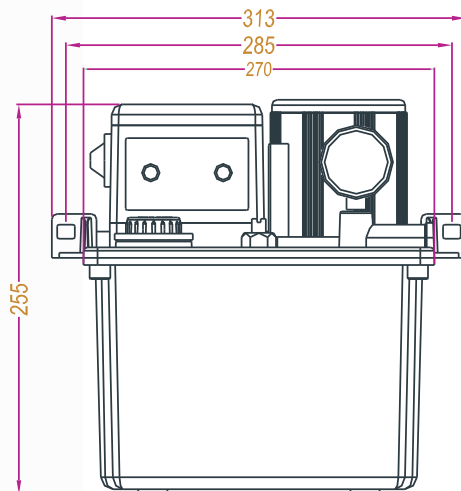
1. 工作时间：请长按SET键，见数字在跳动时，松开SET键，按▲▼键设定个位数；按下SET键，按▲▼键设定十位数；再按下SET键，一下SET键设定百位数(1-999秒)。
2. 间歇时间：请长按SET键，见另一个显示屏数字在跳动时，松开SET键，按键▲▼键设置个位数；按一下SET键，同时按键▲▼约2秒，间歇时间可分秒转换(1-999分或1-999秒)。
3. RST 键 按住此键可重新润滑或清除异常报警。
4. 电路电源接通后系统属于给油状态，并进入LUB、INT循环，供油时左边LUB绿灯亮，间歇时右边INT红灯亮。
5. ERO 闪烁时代表油量不足，ERP闪烁时代表压力异常。
6. 数显中框内没有断电记忆功能，打开小开关进入断电记忆。关闭小开关，断电记忆停止。
7. 数显框内设有按键锁功能，可根据自行需要设置好时间后是否需锁住设置按键。
(可根据客户需要定做专属润滑方案)

1. Working time: press and hold the SET button, release it when the numbers jump, then press ▲▼ to set unit digit; and press the button of SET again, to set ten digit with pressing ▲▼; press SET to hundreds digit(1~999 seconds).
2. Interval time: press and hold the SET button, release it when the numbers in other Display screen jump, then press ▲▼ to set unit digit; and press the button of SET for two seconds, the interval time can shift between minutes and second(1~999 minutes or 1~999 seconds).
3. RST: Press and hold this key to relubricate or clear the abnormal alarm.
4. After the circuit power is turned on, the system belongs to the oil supply state, and enters the LUB, INT cycle. When the fuel is supply, the left LUB green light is on, the right INT red light is on when the system is on rest.
5. When the ERO flashes, it means that the amount of oil is insufficient, and when the ERP flashes, it means that the pressure is abnormal.
6. There is no power-off memory function in the digital display box, and a small switch is turned on to enter the power-off memory. Turn off the small switch, and the power off memory stops.
7. There is a key lock function in the digital display box. You can lock the set button after setting the time according to your needs.
(The lubrication program Can be customized)

MRG-3202(5L)

稀油油脂一体润滑油泵PLC型

Self-control Grease and Thin Oil Lubrication Pump with PLC Type



技术参数 Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed r/min	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MRG-3232-500T	220V 50/60HZ	1350	25	0.22	20	35	5L	300-500CC	00#000#	MRG2232代表 电压110V
MRG-3232-500X	220V 50/60HZ									MRG2232代表 电压220V
MRG-3232-510X	220V 50/60HZ									

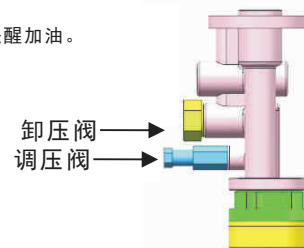
*型号带T为抵抗式，带X为容积式

*mode name with "T" is resistant, mode name with "X" is volumetric

性能与特点 Performance characteristics

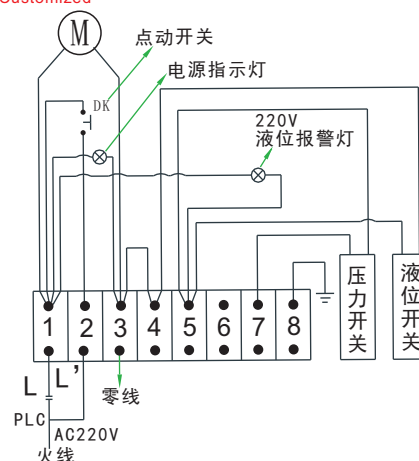
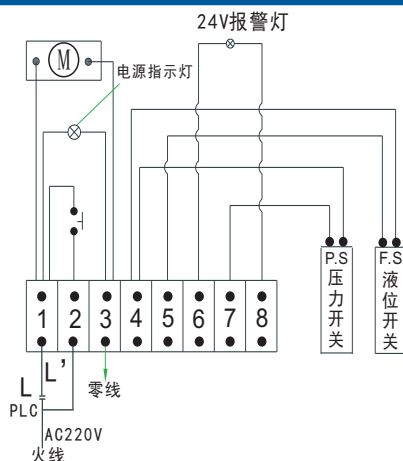
1. 供油和间歇时间同主机电脑控制设定
2. 油箱容量油2、3、4升等，吐出量200-300CC/min, 油箱有目视油位计和自动控油装置，当油量不足时，红灯亮，提醒加油。
3. 油泵里面内设两个阀（一个调压阀，一个卸压阀）图（1-3）。
4. 可根据客户需求定制专属金属油箱。
(可根据客户需要定做专属润滑方案)

1. Oil supply and intermittent time are adjustable by PC controller.
2. With the out of oil 200-300CC/min, the oil tank capacity has 2, 3 and 4 litre, etc.
There are oil level gauge and automatic oil control device on the oil tank.
The red light is on when the oil quantity is insufficient, which reminds you to fill it up.
3. There are two valves in the oil pump, pressure regulating valve and unloading valve. (refer to figure 1-3)
4. Metal oil tank can be customized.
(specific lubrication plan can be customized)



接线图 The wiring diagram

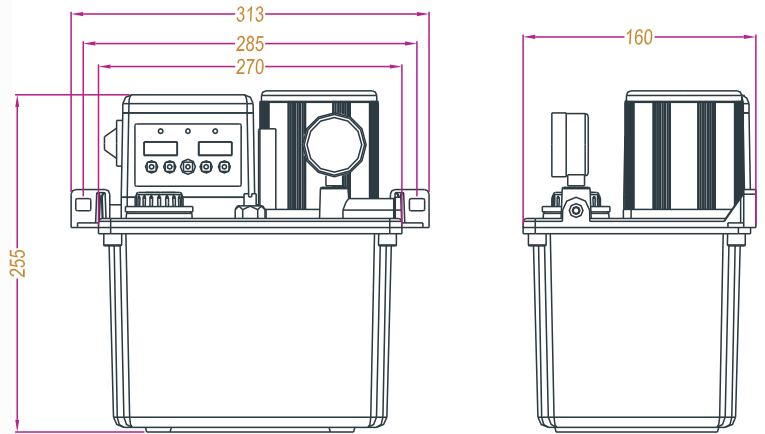
* 接线方式可根据用户需求设计
Wiring Connection can be Customized



MRG-3232(5L)

稀油油脂一体润滑油泵微电脑型

Self-control Grease and Thin Oil Lubrication Pump



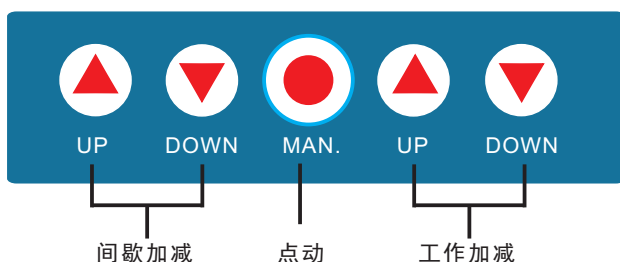
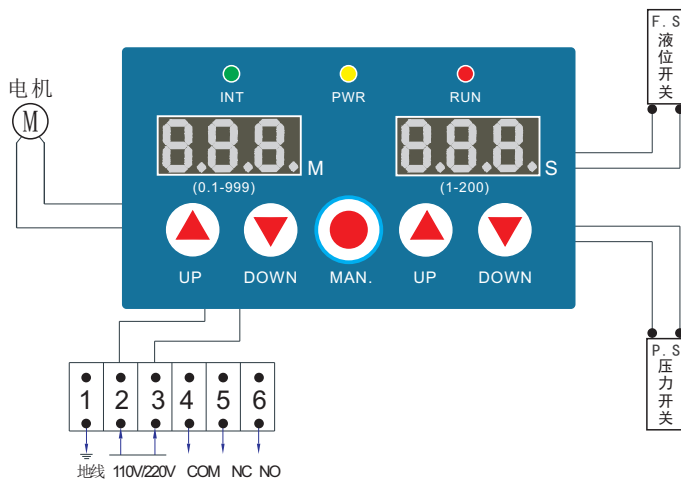
技术参数Technical parameters

型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed r/min	功率 Power	电流 Current(A)	额定压力 Rated pressure kfg/cm ²	最大压力 Max pressure kfg/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kfg/cm ²	备注 Remarks
MRG-3232-500T	220V 50/60HZ	1350	25	0.22	20	35	5L	300-500CC	00#000#	MRG2231代表 电压110V
MRG-3232-500X	220V 50/60HZ									MRG2232代表 电压220V
MRG-3232-510X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式

*mode namme with "T" is resistant, mode name with "X" is volumetric

控制面板设置图



性能与特点Performance characteristics

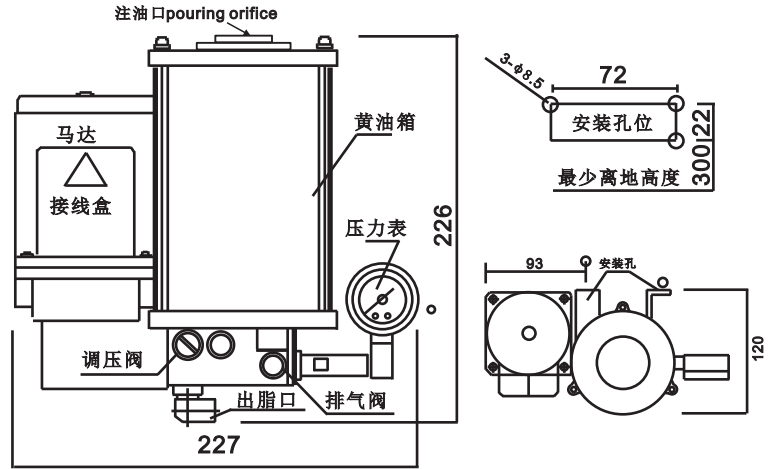
1. 加油时间由控制面板右侧的上升 (UP延长时间) 和下降 (DOWN缩短时间) 按键设定，最长加油时间可达200秒，精度为1 秒。间歇时间由控制面板左侧的上升 (UP延长时间) 和下降 (DOWN缩短时间) 按键设定，间歇时间最长可达999分钟，精度为0.1分钟。时间设定时按一次按键，跳动数为1，按住按键不放，跳动可以加速，所有设定在设定完成后或按手动 (Man) 按键后，即刻生效。
2. 当油泵显示ERP报警时，表示压力不足，检查压力正常时，轻按一下 (Man) 按键，消除报警。
3. 当油泵显示ERO时，表示油量不足，加油后自动消除报警。
4. 按住 (Man) 按键不放为点动测试。
(可根据客户需要定做专属润滑方案)

1. Fuel supply time is set by the UP button(extending the time) and DOWN button(shortening the time) on the right side of the control panel, which can reach up to 200 seconds, with the precision of 1 second. Intermittent time is set by the UP button(extending the time) and DOWN button(shortening the time) on the left side of the control panel, which can reach up to 999 minutes, with the precision of 0.1 minute. When setting the time, the beat number is 1 if you press the button once. The beat number can be accelerated if you hold down the button. All the settings will take effect immediately after the setting is completed or after the Man button is pressed.
2. When the oil pump shows the EPR alarm, it indicates that the pressure is insufficient. If the the pressure is normal, press the Man button to eliminate the alarm.
3. When the oil pump shows the ERO alarm, the oil quantity is insufficient, and the alarm will be automatically eliminated after refueling.
4. Holding down the Man button is dynamic test.
(specific lubrication plan can be customized)

RGH-1202-100T00

PLC半自动油脂泵

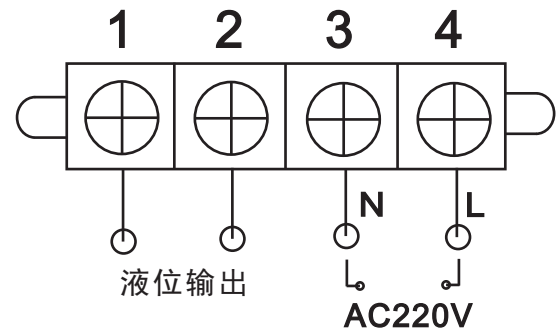
Semi-automatic Grease Lubrication Pump



技术参数Technical parameters

操作方式	Operating mode	PLC控制
额定注油压力	Max.discharge pressure	0~100Kgf/cm ²
注油流量	Theoretical discharge	50ml/min
电机电压	Motor voltage	1 φ 220VAC
电机功率	Motor power	40W
润滑油粘度范围	Viscosity range	NLGI 000#~3#
油箱容积	Reservoir	1000ml
出油口管道	Outlet pipe	Φ6mm
适用系统	Applicable system	抵抗式

接线图The wiring diagram



性能与特点Performance characteristics

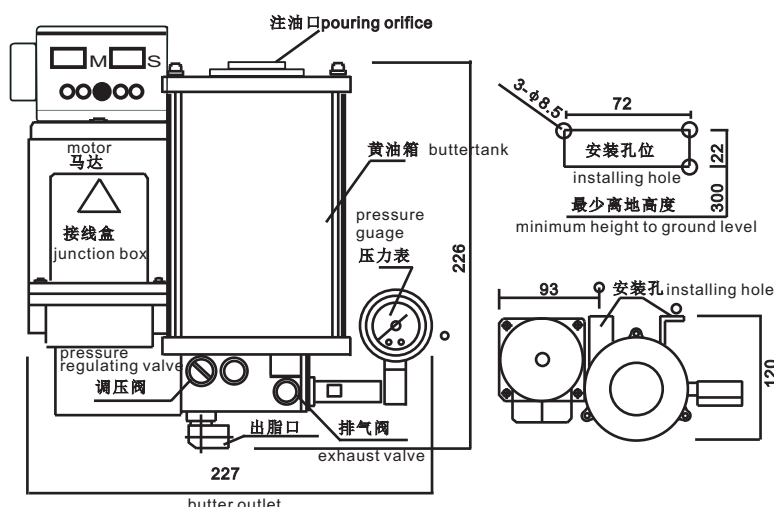
1. 供油和间歇时间同主机电脑控制设定。
2. 油箱容量有1L、1.5L，吐出量50ml/min,视油箱有油位计。
3. 电动油脂泵是用交流电源驱动的润滑脂泵,它通过电机和机械传动将润滑脂不断输出,该泵可用于抵抗式分配器将润滑油脂注入所需润滑点;该泵体积小,输出流量大,广泛用于轻工/锻压自动化等机械设备的集中润滑系统中。

1. Oil supply and intermittent time is settled by host computer.
2. The fuel tank capacity is 1L and 1.5L, and the discharge amount is 50ml/min. The tank has an oil level gauge.
3. The electric oil pump is driven with AC power grease pump. The grease will output unceasingly through the motor and mechanical transmission. The pump can be used to resist distributor which will inject grease into lubrication points. The pump has a small volume and large output flow. It is widely used in the centralized lubrication system of light industry/forging and pressure automation equipment.

RGH-1232-110T

全自动油脂泵微电脑型

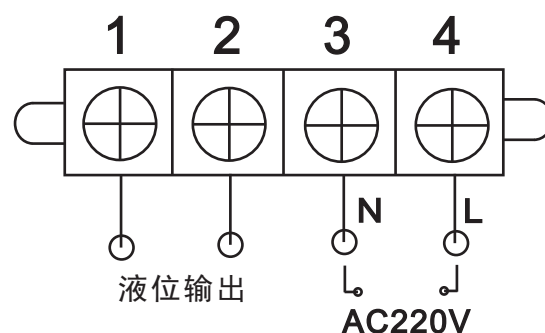
Automatical Grease Lubrication Pump



技术参数 Technical parameters

操作方式	Operating mode	由自带微电脑控制
额定注油压力	Max.discharge pressure	0~100kgf/cm ²
注油流量	Theoretical discharge	50ml/min
电机电压	Motor voltage	1 φ 220VAC
电机功率	Motor power	40W
润滑油粘度范围	Viscosity range	NLGI 000#~0#
油箱容积	Reservoir	1000ml
出口管道	Outlet pipe	Φ6mm
适用系统	Applicable system	抵抗式

接线图 The wiring diagram



性能与特点 Performance characteristics

1. 加油时间由控制面板右侧的上升（UP延长时间）和下降（DOWN缩短时间）按键设定，最长加油时间可达200秒，精度为1秒。间歇时间由控制面板左侧的上升（UP延长时间）和下降（DOWN缩短时间）按键设定，间歇时间最长可达999分钟，精度为0.1分钟。时间设定时按一次按键，跳动数为1，按住按键不放，跳动可以加速，所有设定在设定完成后，按（Man）键后，即刻生效。

2. 当油泵显示ERP报警时，表示压力不足，检查压力正常时，轻按一下（Man）按键，消除报警。

3. 当油泵显示ERO时，表示油量不足，加油后自动消除报警。

4. 按住（Man）按键不放为点动测试。

（可根据客户需要定做专属润滑方案）

1. Fuel supply time is set by the UP button (extending the time) and DOWN button (shortening the time) on the right side of the control panel, which can reach up to 200 seconds, with the precision of 1 second. Intermittent time is set by the UP button (extending the time) and DOWN button (shortening the time) on the left side of the control panel, which can reach up to 999 minutes, with the precision of 0.1 minute. When setting the time, the beat number is 1 if you press the button once. The beat number can be accelerated if you hold down the button. All the settings will take effect immediately after the setting is completed or after the Man button is pressed.

2. When the oil pump shows the EPR alarm, it indicates that the pressure is insufficient. If the the pressure is normal, press the Man button to eliminate the alarm.

3. When the oil pump shows the ERO alarm, the oil quantity is insufficient, and the alarm will be automatically eliminated after refueling.

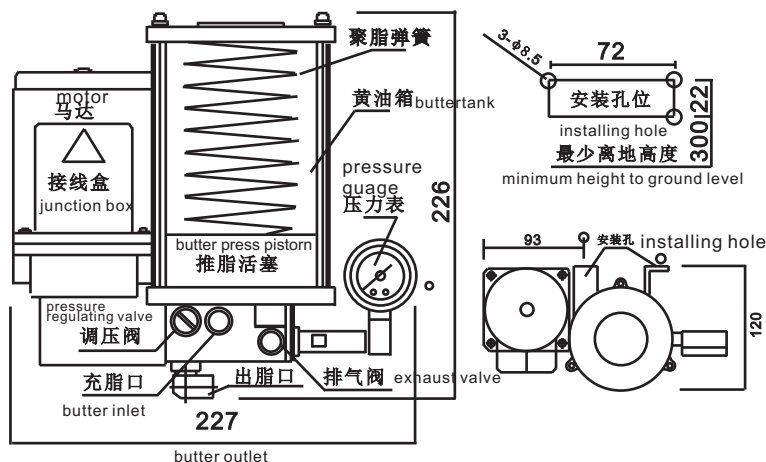
4. Holding down the Man button is dynamic test.

（specific lubrication plan can be customized）

RGH-1202-110T

PLC半自动黄油泵

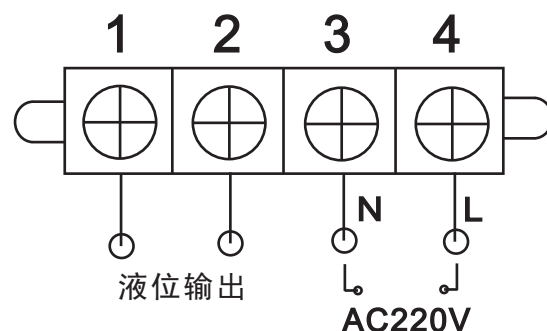
Semi-automatic Butter Lubrication Pump



技术参数Technical parameters

操作方式	Operating mode	PLC控制
额定注油压力	Max.discharge pressure	0~100kgf/cm ²
注油流量	Theoretical discharge	50ml/min
电机电压	Motor voltage	1 φ 220VAC
电机功率	Motor power	40W
润滑油粘度范围	Viscosity range	NLGI 000#~3#
油箱容积	Reservoir	1000ml
出油口管道	Outlet pipe	Φ6mm
适用系统	Applicable system	抵抗式

接线图The wiring diagram



性能与特点Performance characteristics

1. 供油和间歇时间同主机电脑控制设定。
2. 油箱容量有1L、1.5L，吐出量50ml/min,油箱有目视油位计和自动控油装置，当油量不足时,主机会产生报警提醒需要加油。
3. 电动油脂泵是用交流电源驱动的润滑脂泵,它通过电机和机械传动使润滑脂不断输出,该泵可用于抵抗式分配器将润滑油脂注入所需润滑点;该泵配有低油位报警开关,该产品体积小,输出流量大,该泵广泛用于轻工/锻压自动化等机械设备的集中润滑系统中。

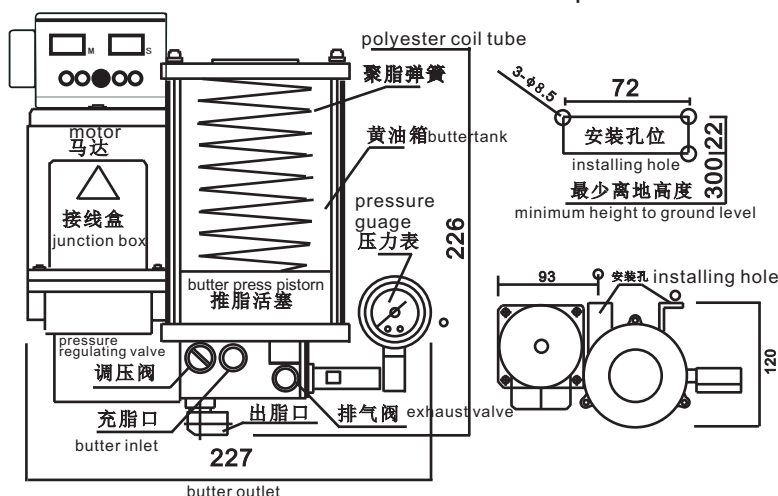
1. Oil supply and intermittent time is settled by host computer.
2. The fuel tank capacity is 1L and 1.5L, and the discharge amount is 50ml/min.The tank has an oil level gauge.
3. The electric oil pump is driven with AC power grease pump. The grease will output unceasingly through the motor and mechanical transmission. The pump can be used to resist distributor which will inject grease into lubrication points. The pump has a small volume and large output flow. It is widely used in the centralized lubrication system of light industry/forging and pressure automation equipment.

RGH-1232-100T



全自动黄油泵微电脑型

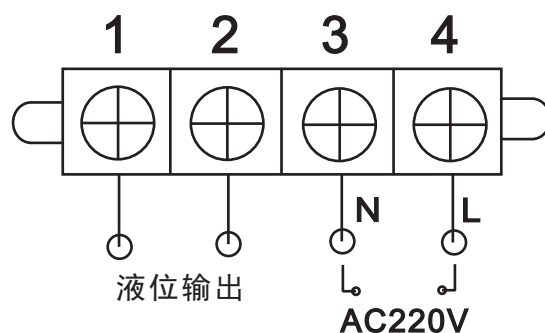
Self-control Butter Pump



技术参数 Technical parameters

操作方式	Operating mode	由微电脑控制
额定注油压力	Max.discharge pressure	0~100kgf/cm ²
注油流量	Theoretical discharge	50ml/min
电机电压	Motor voltage	1 φ 220VAC
电机功率	Motor power	40W
润滑油粘度范围	Viscosity range	NLGI 000#~3#
油箱容积	Reservoir	1000ml
出口管道	Outlet pipe	Φ6mm
适用系统	Applicable system	抵抗式

接线图 The wiring diagram



性能与特点 Performance characteristics

1. 加油时间由控制面板右侧的上升（UP延长时间）和下降（DOWN缩短时间）按键设定，最长加油时间可达200秒，精度为1秒。间歇时间由控制面板左侧的上升（UP延长时间）和下降（DOWN缩短时间）按键设定，间歇时间最长可达999分钟，精度为0.1分钟。时间设定时，按一次按键，跳动数为1，按住按键不放，跳动可以加速，所有设定在设定完成后，按（Man）键后，即刻生效。
2. 当油泵显示ERP报警时，表示压力不足，检查压力正常时，轻按一下（Man）按键，消除报警。
3. 当油泵显示ERO时，表示油量不足，加油后自动消除报警。
4. 按住（Man）按键不放为点动测试。

（可根据客户需要定做专属润滑方案）

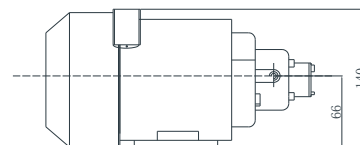
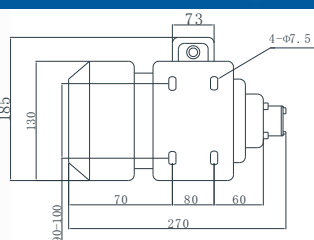
1. Fuel supply time is set by the UP button (extending the time) and DOWN button (shortening the time) on the right side of the control panel, which can reach up to 200 seconds, with the precision of 1 second. Intermittent time is set by the UP button (extending the time) and DOWN button (shortening the time) on the left side of the control panel, which can reach up to 999 minutes, with the precision of 0.1 minute. When setting the time, the beat number is 1 if you press the button once. The beat number can be accelerated if you hold down the button. All the settings will take effect immediately after the setting is completed or after the Man button is pressed.
2. When the oil pump shows the EPR alarm, it indicates that the pressure is insufficient. If the the pressure is normal, press the Man button to eliminate the alarm.
3. When the oil pump shows the ERO alarm, the oil quantity is insufficient, and the alarm will be automatically eliminated after refueling.
4. Holding down the Man button is dynamic test.

(specific lubrication plan can be customized)

摆线泵系列 (BN series cycloidal pump)

马达泵

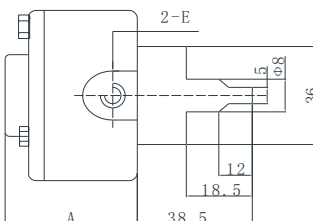
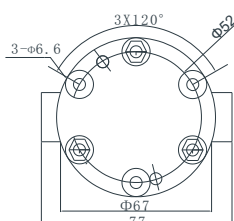
Motor pump



型号 Model	电机 Motor	摆线泵 Cycloidal pump
M-BMA-10A	三相 (Three-phase) 380V 50HZ 1/4Hp	BMA-10A
M-BMA-11A	三相 (Three-phase) 380V 50HZ 1/4Hp	BMA-11A
M-BMA-12A	三相 (Three-phase) 380V 50HZ 1/4Hp	BMA-12A
M-BMA-13A	三相 (Three-phase) 380V 50HZ 1/4Hp	BMA-13A
M-BMB-1FS	三相 (Three-phase) 380V 50HZ 1/4Hp	BMB-1FS
M-BMB-2FS	三相 (Three-phase) 380V 50HZ 1/4Hp	BMB-2FS
M-BMB-3FS	三相 (Three-phase) 380V 50HZ 1/4Hp	BMB-3FS

双向摆线泵

IRA给油泵浦 (可逆转式)



功能

该泵浦结构简单，自吸性强，输油平稳，噪音低，具有良好的高转速特性，适用于润滑系统中的低压连续润滑。

该泵浦特点：

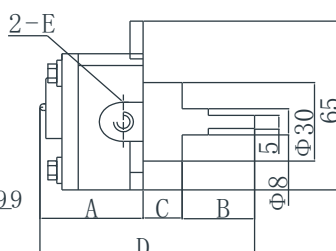
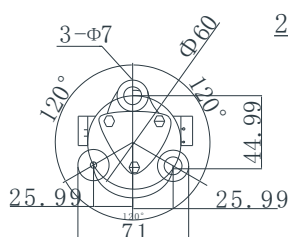
双向摆线泵的设计必须确保无论是正转还是反转，油的流动始终向一个方向。

双向摆线泵的进口口和出口口保持不变，泵轴转向可改变。

适用于一般正、逆转机械。如：车床、旋臂铣床、制药机械、研磨机、各种冷冻机械、铣床等。

型号 Model	理论吐出量 Theoretical discharge capacity	吐出量 Discharge capacity (L/min)		最大压力 Max. pressure (kgf/cm ²)	最高转速 Max. rotary speed	出入口螺纹 Entrance outlet thread	A	重量 Weight (kg)
		(1500rpm)	(1800rpm)					
1RA-2FS	1.8	2.7	3.24	5	2000	PT 1/4	50	1.1
1RA-3FS	2.5	3.75	4.5	5	2000	PT 1/4	55	1.2

给油泵浦



功能

该泵浦结构简单，自吸性强，输油平稳，噪音低，具有良好的高转速特性，适用于润滑系统中的低压连续润滑。

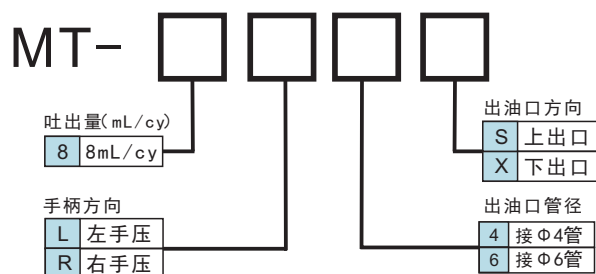
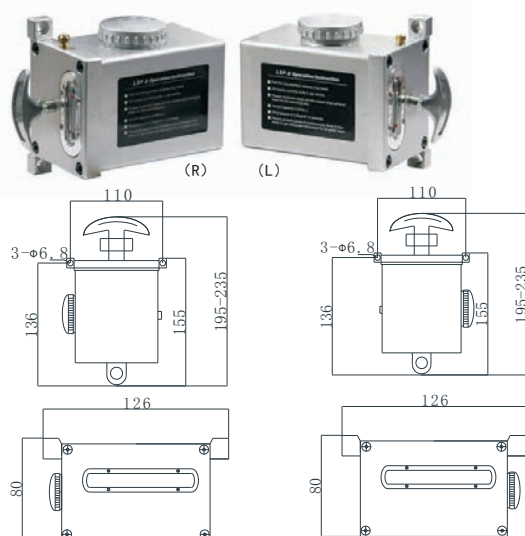
适用于油品粘度：30cSt-150cSt给油泵浦。

Function

The structure of pump is simple, strong self-absorption, stable oil flow, low noise, and have a good high speed characteristic, which is suitable for low pressure continuous lubrication in lubricating system. Applicable oil viscosity: 30cst-150cst to pump.

型号 Model	理论吐出量 Theoretical discharge capacity(cc/rev)	吐出量 Discharge capacity (L/min)		最大压力 Max. pressure (kgf/cm ²)	最高转速 Max. rotary speed(rpm)	出入口螺纹 (E) Entrance outlet thread	A	B	C	D	重量 Weight (kg)
		(1500rpm)	(1800rpm)								
TOP-10A	0.8	1.2	1.4	5	3000	PT1/8	40	10.5	8	58.5	0.5
TOP-11A	1.5	2.2	2.7	5	2000	PT1/8, PT 1/4	49	10.5	8	68	0.55
TOP-12A	2.5	3.7	4.5	5	1800	PT 1/4	56	11.5	8	76	0.6
TOP-13A	4.5	6.7	7.5	5	1800	PT 3/8	62	14	5	82	0.8

MT型手拉式润滑油泵



性能与特点:

1. 体积小，安装方便、使用简易。附止逆装置避免油回流。适用于对油量要求不严格的润滑场所。
2. 适用于润滑系统较简单的机械。
3. 油品粘度：20-150cst。

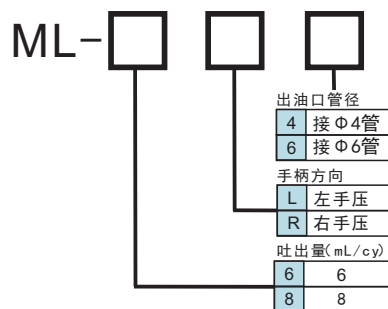
Performance and features:

1. Small size, easy to use and install. With anti-backup device to avoid oil backflow. It is commonly used in places where lubrication is not strictly required.
2. Applicable to simpler lubrication system.
3. Oil viscosity: 20-150 cst.

规格型号及技术参数

型号规格 Specifications	最大吐出压力 Maximum discharge pressure	吐出量 Discharge amount	出油口管径 Outlet management	手柄形式 Handle form	油箱容量 Fuel tank capacity	出油口方向 Outlet direction	重量 weight
MT-8L	0.5MPa	8cc/cy	Φ4或Φ6	左手压Left	600cc	向上或者向下 Up or down	0.9kg
MT-8R				右手压right			

ML型手摇式润滑油泵

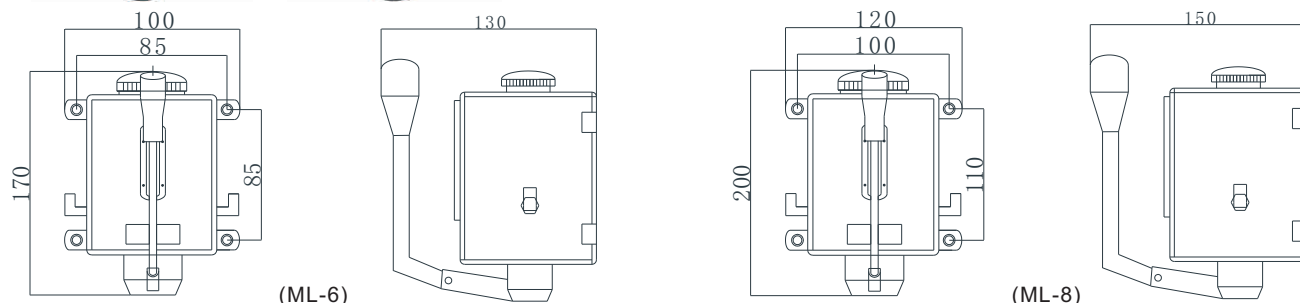


性能与特点:

1. 体积小，安装方便、使用简易。附止逆装置避免油回流。适用于对油量要求不严格的润滑场所。
2. 适用于润滑系统较简单的机械。
3. 油品粘度：20-150cst。

Performance and features:

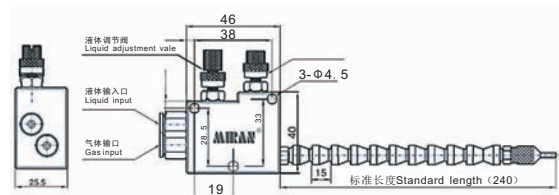
1. Small size, easy to use and install. With anti-backup device to avoid oil backflow. It is commonly used in places where lubrication is not strictly required.
2. Applicable to simpler lubrication system.
3. Oil viscosity: 20-150 cst.



规格型号及技术参数

型号规格 Specifications	最大吐出压力 Maximum discharge pressure	吐出量 Discharge amount	出油口管径 Outlet management	手柄形式 Handle form	油箱容量 Fuel tank capacity	出油口方向 Outlet direction	重量 weight
ML-6	1.5MPa	6ml/cy	Φ4或Φ6	左或右	350ml	向上或者向下	1.2kg
ML-8					600ml		1.4kg

自吸式冷却润滑喷雾器（喷雾式润滑系统）



液体品名 Liquid Variety	流量范围 Flow range (cc/min)	气体压力 Gas pressure (0.5MPa)
水, 酒精 Water, alcohol	0.3~30	
10号高速主轴油 No. 10 high-speed main shaft oil	0.2~25	

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。

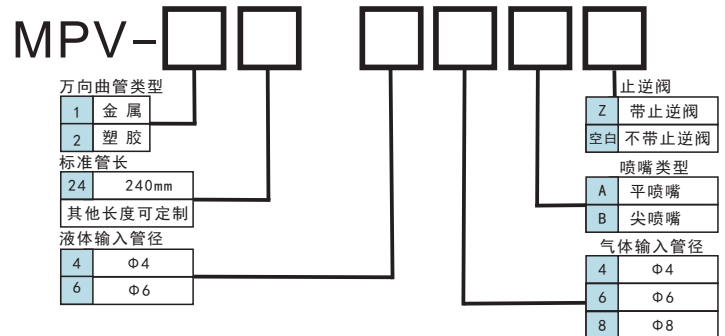
1. 在加工过程中冷却，润滑，吹除铁屑可一次完成。
2. 可提高加工速度，节省加工时间及费用，并减少刀具磨损。
3. 有助于加工品质的确保及刀具最佳使用效果。
4. 加工合金或超硬材质，亦可达到平滑、高精度之表面。
5. 增加密合方式，可避免内部泄漏，延长使用寿命。
6. 可针对不同的固定方式，选择不同配件搭配使用。

注意事项:

1. 需使用清洁之液体。
2. 请勿使用腐蚀性之液体。
3. 气压源气压范围0.5-0.7MPa. (雾化效果与气量，气压有关系)
4. 适用液体黏度：0-68cSt.

使用场合:

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。



This product applies vacuum self-suction principle to make the liquid atomized by nozzle and air. Spray to the work-piece, tool bearing and other lubrication points. Good cooling effect, lubrication, Clean and other functions to improve production efficiency and quality, and reduce the loss of mechanical tool. During the process, cooling, lubrication, blowing off iron filings can be completed at one time. It can improve machining speed, save machining time and cost and reduce tool wear. Help to ensure the quality and the best use of the tool. Processing alloy or super hard material can also achieve smooth and high precision surface. Increase the sealing method to avoid internal leakage and prolong service life. Different parts can be used for different fixed ways.

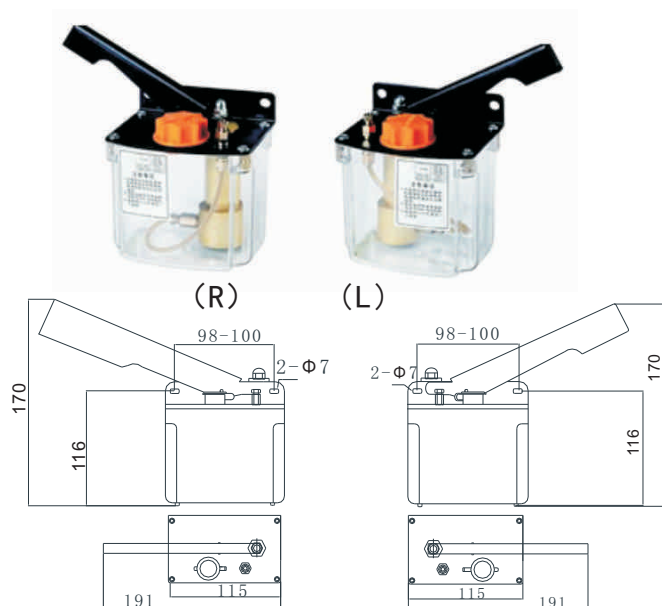
Notes:

1. Use clean liquid.
2. Do not use corrosive liquid.
3. Air pressure range 0.5-0.7MPa. (atomization effect is related to air volume and air pressure)
4. Applicable liquid viscosity: 0-68cSt.

Usage:

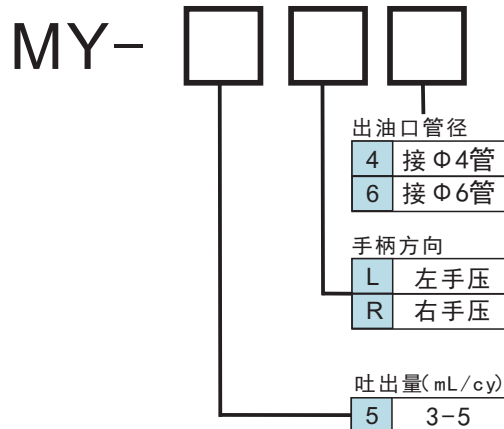
Lathe, drilling machine, milling machine, grinding machine, tapping machine, cutter grinding machine, CNC machine tool, punching machine, sawing machine, woodworking machinery, feeding machine, etc.

MY型手压式润滑油泵



规格型号及技术参数

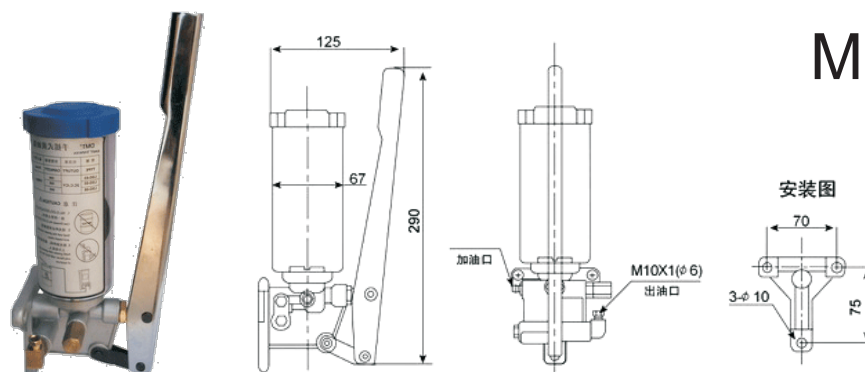
型号规格 Specifications	最大吐出压力 Maximum discharge pressure	吐出量 Discharge amount	出油口管径 Outlet management	手柄形式 Handle form	出油口方向 Outlet direction	重量 weight
MY-5L	0.4MPa	3-5cc/cy 油量可调	Φ4或 Φ6	左手压	500cc	0.7kg
MY-5R				右手压right		



性能与特点:

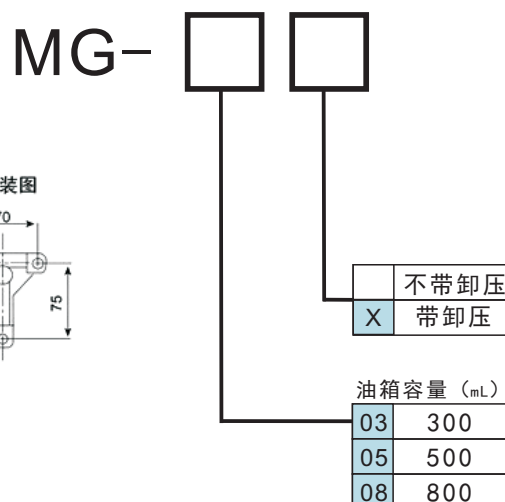
1. 该油泵是活塞泵，压下手柄时将油吸入活塞腔内，手柄复位时，在弹簧力的作用下将活塞管内的油排出。
2. 该泵可与抵抗式分配器组成集中润滑系统，适用于注油管路长5米、高3米、15个润滑点以内的各种润滑设备。

MG 手摇式润滑油脂泵



性能与特点:

1. 柱塞式容积泵，树脂油箱。
2. 手动操作，使用简单、方便。
3. 透明树脂油箱，方便观察油位。
4. 可直接向润滑点供送油剂，可与可调型分配器或与单边型分配器配套使用。



型号规格	最大吐出压力	吐出量	出油口管径	吐出口数	油箱容量	出油口方向	形式
MG-03	100kgf/cm ²	2ml/cy	Φ4/Φ6	1-3个	300ml	向上或者向下	抵抗式
MG-05					500ml		
MG-08					800ml		

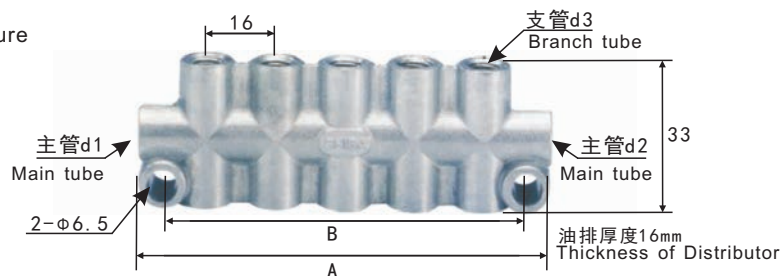
MV/MK可调分配器

型号	入口口径	出口口径	出口数	A	B
MV024-04 MV026-04 MV026-06 MV028-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	2	47	37
MV034-04 MV036-04 MV036-06 MV038-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	3	62	52
MV044-04 MV046-04 MV046-06 MV048-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	4	77	67
MV054-04 MV056-04 MV056-06 MV058-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	5	92	82
MV066-04 MV066-06 MV068-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	6	107	97
MV076-04 MV076-06 MV078-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	7	122	112
MV086-04 MV086-06 MV088-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	8	137	127
MV096-04 MV096-06 MV098-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	9	152	142
MV106-04 MV106-06 MV108-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	10	167	157

备注：MK所有规格和尺寸参数与MV相同。可调油排可根据客户所需孔位定做。

M E 双边分配器(铝合金) ME two-way coupling body(aluminum alloy)

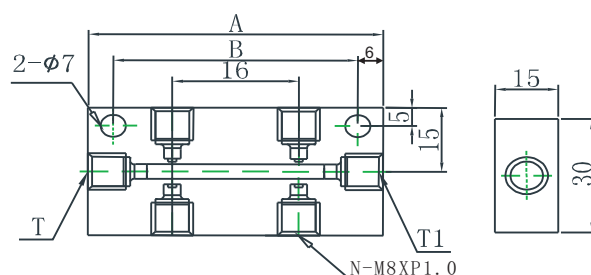
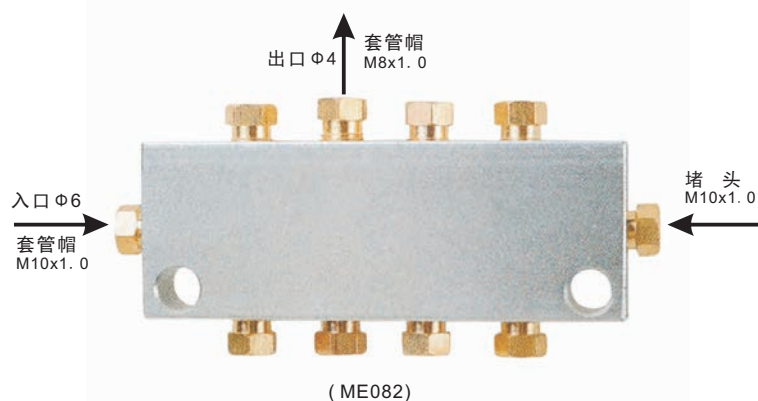
标准外形尺寸图
standard configuration dimension figure



型号model	d1=d2	d3	出油口数量Number of oil outlet	A(mm)	B(mm)
ME-6-8-8	M8X1	M8X1	4	36	48
ME-6-10-10	M10X1	M8X1	4	36	48
ME-8-8-8	M8X1	M8X1	6	52	64
ME-8-10-10	M10X1	M8X1	6	52	64
ME-10-8-8	M8X1	M8X1	8	68	80
ME-10-10-10	M10X1	M8X1	8	68	80
ME-12-8-8	M8X1	M8X1	10	84	96
ME-12-10-10	M10X1	M8X1	10	84	96

润滑系统分配器

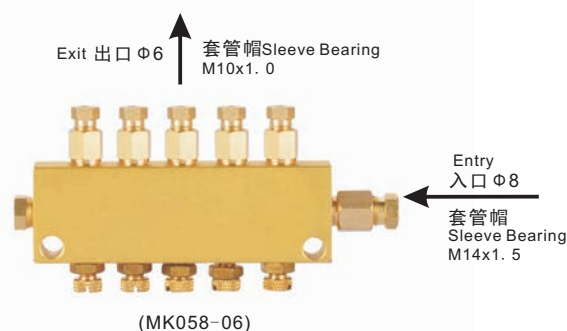
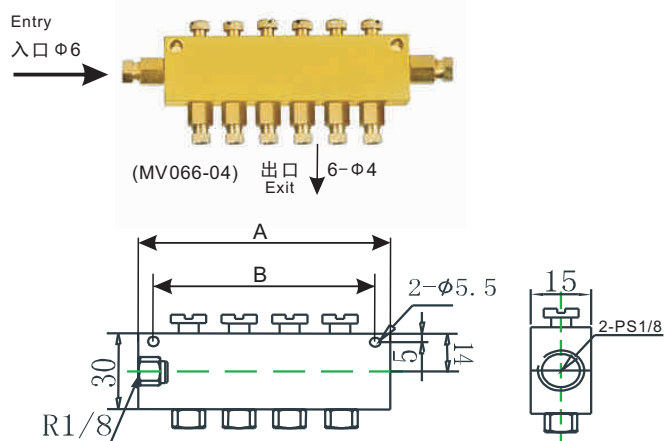
ME分配器



型号	主管/支管直径	出口数	A	B	备注
ME041 ME042 ME043	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	4	48	36	双边可根据客户所需孔位定做 The hole can be customized
ME061 ME062 ME063	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	6	64	52	
ME081 ME082 ME083	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	8	80	68	
ME101 ME102 ME103	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	10	96	84	
ME121 ME122 ME123	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	12	112	99	

MV可调分配器

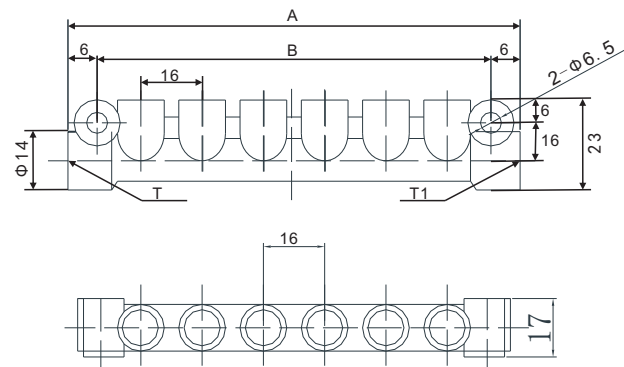
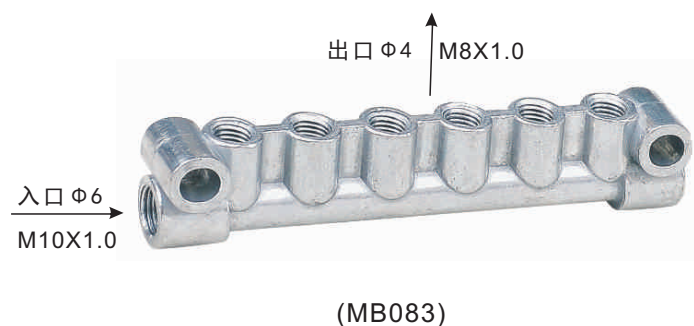
MK带锁止抗震可调分配器



润滑系统分配器

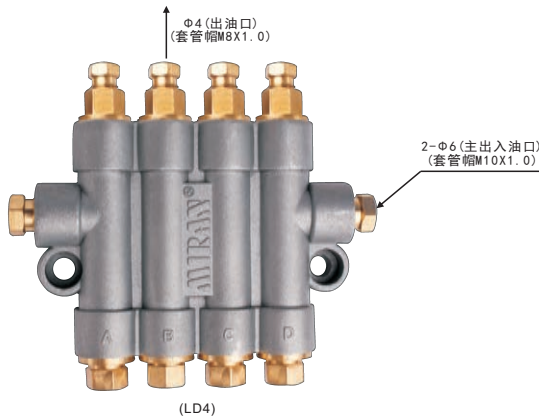
MB 分配器

MB 分配器尺寸图

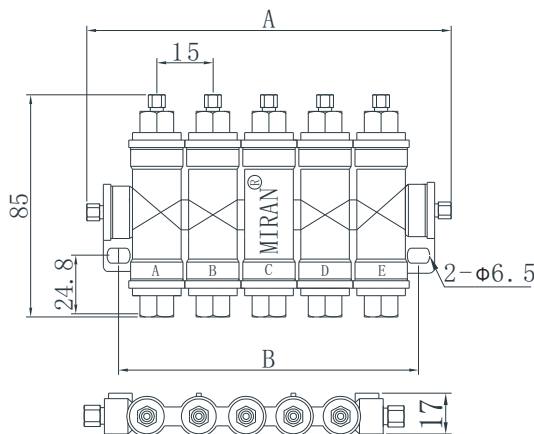


型号	T/T1	出口口径	出口数	A	B
MB041 MB042 MB043 MB044	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	2-04 2-06	4	48	35-36
MB051 MB052 MB053 MB054	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	3-04 3-06	5	64	51-52
MB061 MB062 MB063 MB064	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	4-04 4-06	6	80	68
MB071 MB072 MB073 MB074	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	5-04 5-04	7	96	84
MB081 MB082 MB083 MB084	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	6-04 6-06	8	112	96-100
MB091 MB092 MB093 MB094	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	7-04 7-06	9	128	116
MB101 MB102 MB103 MB104	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	8-04 8-06	10	144	132
MB121 MB122 MB123 MB124	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	10-04 10-06	12	176	164

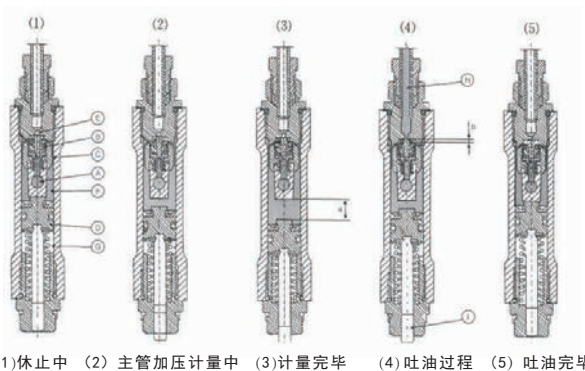
LD定量脱压式稀油分配器/定量容积式稀油分配器



产品尺寸图



工作原理



(1)休止中 (2)主管加压计量中 (3)计量完毕 (4)吐油过程 (5)吐油完毕

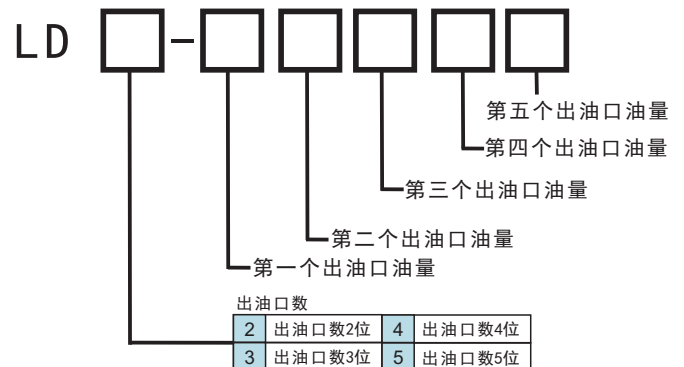
工作原理：A：计量活塞动作行程 B：伞形双向阀动作行程见上图，从润滑泵压送的油从主管A注入，并将伞形双向阀B向推开流入，通过通路C压送活塞室到F内。受压力油作用下计量活塞向下动作弹簧G被压缩蓄油，从而进行计量蓄油，当主管A内油压被释放（即卸压），伞形阀B因压力差而动作，同时开启吐出口E，于是活室内计量蓄油通过吐出口E送入油管H而将油输送到润滑点，信号销I当计量蓄油时突出。而供油给润滑点时缩回，从而确认分配动作完成情况。

A: metering piston action schedule B: the action trip of the umbrella type two-way valve is shown in the figure above. The oil from the lubrication pump is injected from the director A, and the umbrella-type two-way valve B is pushed open. Push the piston chamber to F through the channel C. The piston moves downward under the action of pressure oil.

The spring G is compressed. Thus the measurement of oil storage. When the oil pressure is released in charge of A (the discharge pressure). The umbrella valve B moves with pressure difference. At the same time, it opens the outlet E, so the living room measures the oil storage.

The oil is transported to the lubrication point by outlet E to the pipe H, and the signal pin I is prominent when measuring the oil storage. When the oil is supplied to the lubrication point, it is retracted to confirm the completion of the distribution.

型号说明



技术参数

型号	出口数	A	B	吐出量 (ml/cy)
LD2	2	69	39	0.1; 0.2; 0.3; 0.4; 0.5;
LD3	3	86	54	
LD4	4	102	69	
LD5	5	116	84	

*油量表示方法:

(注: 当所有出油口油量值一样时, 只用一个油量值表示)

例1: LD5-2表示为5位分配器, 第1, 2, 3, 4, 5 出油口油量全部为0.2ml每次。

例2: LD5-53235表示为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; 0.5ml每次。

注: 其中: 7; 8; 9; 10位, 为5位和2; 3; 4; 5位组合。6位为3位与3位的组合。

* oil quantity representation method:

(note: when the oil value is the same, only one oil value is used)

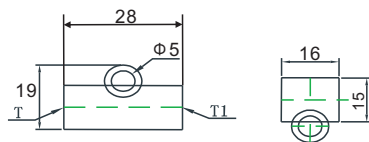
Example 1: LD5-2 indicates 5 allocators, and the amount of 1 and 2 oil outlet in 2 allocator is 0.3ml each time.

Example 2: LD5-53235 indicates 5 allocators, and 1, 2, 3, 4, 5 outlet flow rate respectively is 0.3ml, 0.5ml, 0.3ml, 0.5ml, and 0.4ml each time.

Note: among them: 7, 8, 9, 10 bits is the combination of 5 bits and 2, 3, 4, or 5 bits. The 6 bits, the combination of 3 and 3 bits.

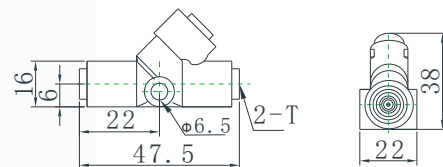
润滑附件

固定双接头



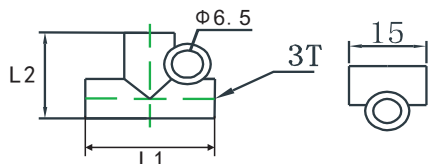
型号	管径	T	T1	重量(g)
MJ0808	Φ4xΦ4	M8x1	M8x1	23
MJ0810	Φ4xΦ6	M8x1	M10x1	22
MJ1010	Φ6xΦ6	M10x1	M10x1	20

过滤双接头



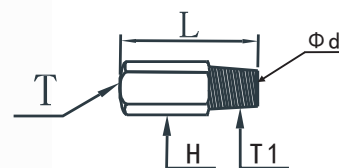
型号model	MPJ04	MPJ04
规格specification	Φ4-Φ4	Φ6-Φ6
T	M8X1	M10X1
过滤精度(μ) Filtration accuracy	20	
使用范围Range of application	抵抗式润滑油系统	
压力Pressure (kgf/cm ²)	25	
最大流量Maximum flow (L/min)	1	
用油粘度Oil viscosity (cSt)	30-250	

三通管/三通接头



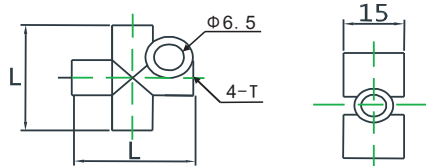
型号	管径	T	L1	L2	重量(g)
MKD04	Φ4	M8x1	28	19.5	15
MKD06	Φ6	M10x1	30	22	26

直接头



型号	管径	Φd	L	T	T1	H	重量 (g)
MD0406	Φ4	2.5	18	M8X1	M6X1	10	6
MD0406-1	Φ4	2.5	18	M8X1	M6X0.75	10	6
MD0408	Φ4	3	18	M8X1	M8X1	10	6
MD0410	Φ4	3	18	M8X1	M10X1	10	8
MD0418	Φ4	3	18	M8X1	PT1/8	10	8
MD0414	Φ4	3.5	18	M8X1	PT1/4	14	17
MD0618	Φ6	4	18	M10X1	PT1/8	10	8
MD0608	Φ6	4	18	M10X1	M8X1	12	8
MD0614	Φ6	5	18	M10X1	PT1/4	14	14
MD0610	Φ6	3	18	M10X1	M10X1	12	8
MD0818	Φ8	5	26	M14X1.5	PT1/8	17	22
MD0814	Φ8	6	26	M14X1.5	PT1/4	17	26
MD1018	Φ10	5	28	M16X1.5	PT1/8	19	29
MD1014	Φ10	7	28	M16X1.5	PT1/4	19	33

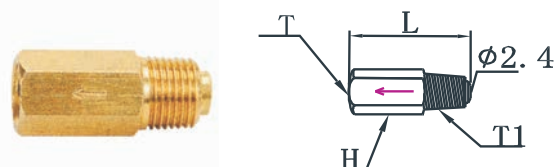
四通管/四通接头



型号	管径	T	L1	重量(g)
MJD04	Φ4	M8x1	28	19.5
MJD06	Φ6	M10x1	30	22

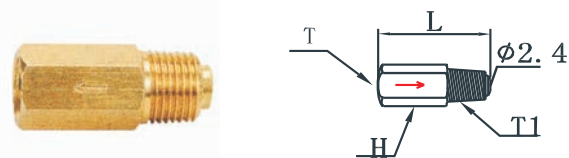
润滑附件

单向直接头



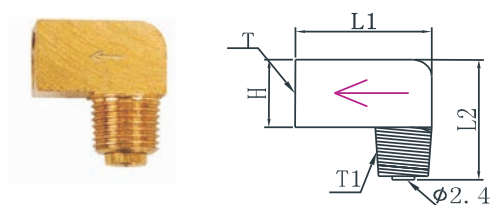
型号	管径	L	T	T1	H	重量(g)
MD0418A	Φ4	26	M8x1	PT1/8	10	11
MD0618A	Φ6	26	M10x1	PT1/8	12	14

反向直接头



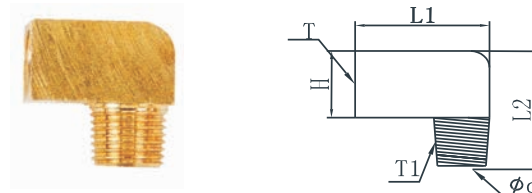
型号	管径	L	T	T1	H	重量(g)
MD0418B	Φ4	26	M8x1	PT1/8	10	11
MD0618B	Φ6	26	M10x1	PT1/8	12	14

单向直角接头



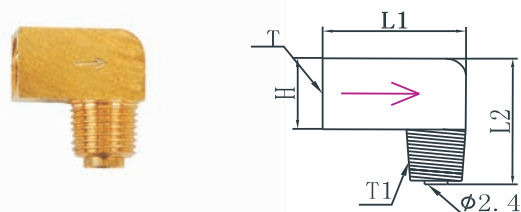
型号	管径	L1	L2	T	T1	H	重量(g)
MH0418A	Φ4	18	20	M8X1	R1/8	14	14
MH0618A	Φ6	20	22	M10X1	R1/8	21	21

直角接头



型号	管径	ΦD	L1	L2	T	T1	H	重量(g)
MH0406	Φ4	2	18	18	M8X1	M6X1.0	10	12
MH0406-1	Φ4	2	18	18	M8X1	M6X0.75	10	13
MH0408	Φ4	3	18	18	M8X1	M8X1.0	10	13
MH0418	Φ4	3	18	18	M8X1	PT1/8	10	13
MH0414	Φ4	4	20	22	M8X1	PT1/4	14	32
MH0608	Φ6	3	20	20	M10X1	M8X1.0	12	20
MH0610	Φ6	4	20	20	M10X1	M10X1.0	12	20
MH0618	Φ6	4	20	20	M10X1	PT1/8	12	20
MH0614	Φ6	4	20	22	M10X1	PT1/4	14	29
MH0818	Φ8	5	26	29	M14X1.5	PT1/8	17	52
MH0814	Φ8	6	26	29	M14X1.5	PT1/4	17	56
MH1018	Φ10	5	29	31	M16X1.5	PT1/8	19	70
MH1014	Φ10	7	29	31	M16X1.5	PT1/4	19	70

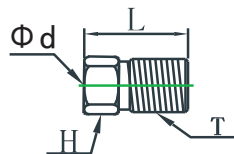
反向直角接头



型号	管径	L1	L2	T	T1	H	重量(g)
MH0418B	Φ4	18	20	M8X1	R1/8	14	14
MH0618B	Φ6	20	22	M10X1	R1/8	21	21

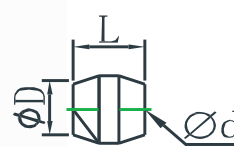
润滑附件

套管帽/油管接头



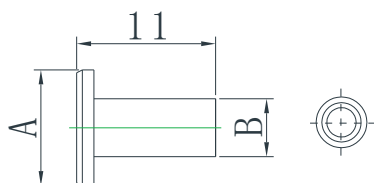
型号	管径	Φd	L	T	H	重量(g)
MA04	Φ4	4.1	12	M8X1.0	8	3
MA04-1	Φ4	4.2	12	M8X1.0	8	3
MA06	Φ6	6.1	12.5	M10X1.0	10	4
MA08	Φ8	8.1	14	M14X1.5	14	9
MA010	Φ10	10.1	15	M16X1.5	16	10

套管/密封圈



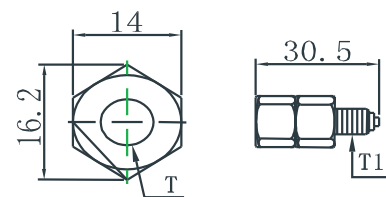
型号	管径	Φd	ΦD	L	重量(g)
MB04	Φ4	4.1	6	4.5	0.3
MB06	Φ6	6.1	8	4.5	0.6
MB08	Φ8	8.1	11	7	2
MB10	Φ10	10.1	13.5	8	3

管内衬/油管衬套



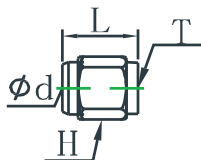
型号	A	B	重量(g)
MF04	Φ4	Φ2	0.1
MF04-1	Φ4	Φ2.5	0.1
MF06	Φ6	Φ4	0.2

活动直接头



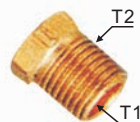
型号	管径	T	T1	重量(g)
MW0418	Φ4	M8X1.0	PT1/8	28
MW0618	Φ6	M10X1.0	PT1/8	26
MW0118		PT1/8	PT1/8	26

螺帽/接头螺母



型号	管径	Φd	L	T	H	重量(g)
MP04	Φ4	Φ4.05	13	M8X1.0	10	3

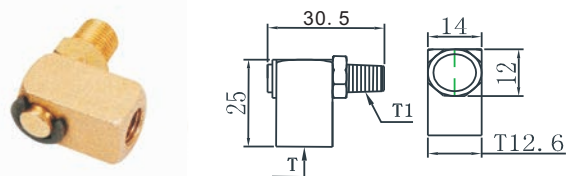
补芯



型号Model	T1内牙 (inter thread)	T2外牙 (outer thread)
MBX1814	PS1/8	PT1/4
MBX1438	PS1/4	PT3/8
MBX3812	PS3/8	PT1/2
MBX1234	PS1/2	PT3/4
MBX341	PS3/4	PT1

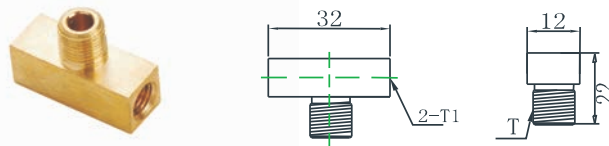
润滑附件

活动直角接头



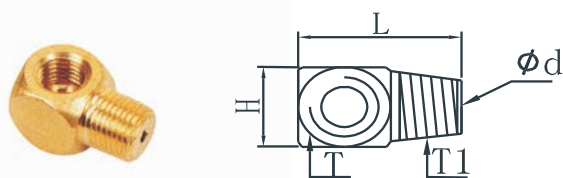
型号	管径	T	T1	重量(g)
MC0418	Φ4	M8X1.0	PT1/8	38
MC0406	Φ4	M8X1.0	M6X1.0	38
MC0408	Φ4	M8X1.0	M8X1.0	38
MC0118		PT1/8	PT1/8	36

过渡三通



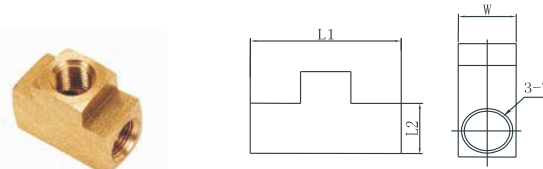
型号	型号	T	T1
BGT0806	Φ4	M6X1.0	M8X1.0
BGT0808	Φ4	M8X1.0	M8X1.0
BGT0818	Φ4	PT1/8	M8X1.0
BGT1006	Φ4	M6X1.0	M10X1.0
BGT1008	Φ6	M8X1.0	M10X1.0
BGT1018	Φ6	PT1/8	M10X1.0

平面直角接头



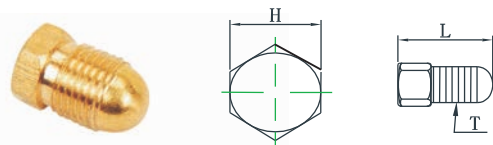
型号	管径	Φd	L	T	T1	H	重量(g)
MI0408	Φ4	2	21	M8X1.0	M8X1.0	12.7	15
MI0410	Φ4	2	21	M8X1.0	M10X1.0	12.7	15
MI0418	Φ4	2	21	M8X1.0	PT1/8	12.7	17
MI0408Z	Φ4	2	21	M8X1.0	Z1/8	12.7	17
MI0618	Φ6	2	22.3	M10X1.0	PT1/8	12.7	15
MI1818		2.5	21	PS1/8	PT1/8	12.7	15

孔内三通接头



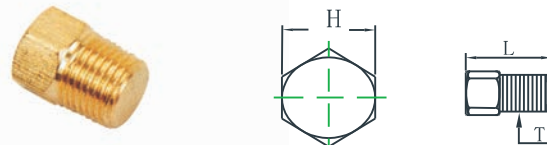
型号	T	L1	L2	W	重量(g)
MT18	PS1/8	27	21	14	34
MT14	PS1/4	31	25	18	47
MT38	PS3/8	40	31	21	86

套管塞头



型号	L	T	H	重量(g)
MG0408	16	M8X1.0	8	5.4
MG0610	17	M10X1.0	10	8.8

平端塞头



型号	L	T	H	重量(g)
MG04	12	M8X1	8	4.4
MG06	14	PT1/8	10	7.6

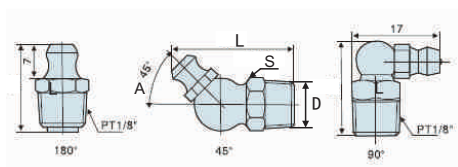
润滑附件

黄油嘴 Grease nipple



(铜制)

(铁制)



型号 Code	D牙径 Tooth size	A角度 Angle	L长度 Length	S角位 Angle
HY-106T	M6X1	0°	12	8
HY-108T	M8X1	0°	15	10
HY-110T	M10X1	0°	17	11
HY-114T	R1/4	0°	24	13.5
HY-118T	R1/8	0°	17	11
HY-206T	M6X1	45°	16	10
HY-208T	M8X1	45°	19	10
HY-210T	M10X1	45°	19	11
HY-214T	R1/4	45°	26	13.5
HY-218T	R1/8	45°	19	11
HY-306T	M6X1	90°	16	10
HY-308T	M8X1	90°	19	10
HY-310T	M10X1	90°	22	11
HY-318T	R1/8	90°	22	11

A=0° 时为直黄油嘴
A=45° 时为弯黄油嘴
A=90° 时为直角黄油嘴
A=0° as grease nipple
A=45° to turn yellow when the nozzle
A=90° for right grease nipple

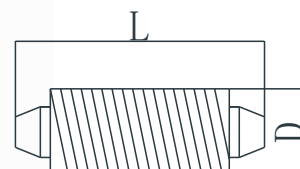
注：不带T为铁制
如：HY-118
Note: don't take T for aluminum
Such as: HY-118

内接双通接头 in a two-way connection



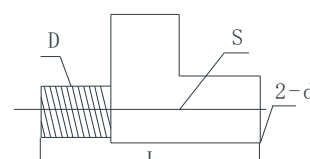
型号 code	d牙径 Tooth size	D牙径 Tooth size	L长度 Length	S角位 Angle
2T-8-8	M8X1	M8X1	24	10
2T-8-10	M8X1	M10X1	24	12
2T-10-10	M10X1	M10X1	26	12
2T-10-12	M10X1	M12X1.25	29	14
2T-8-G1/8	M8X1	G1/8	23	10
2T-10-G1/8	M10X1	G1/8	23	12
2T-14-G1/4	M14X1.5	G1/4	33	16
2T-16-G1/4	M16X1.5	G1/4	36	18
2T-18-G3/8	M18X1.5	G3/8	39	21

连接接头 connector



型号 Code	D牙径 Tooth size	L长度 Length
PJ-6	M6X1.0	20
PJ-8	M8X1.0	23
PJ-10	M8X1.0	25

侧外接三通接头 Lateral external tee joint



型号 Code	D牙径 Tooth size	d牙径 Tooth size	L长度 Length	S角位 Angle
3TZ-8-8	M8X1	M8X1	28	12
3TZ-8-10	M10X1	M8X1	28	12
3TZ-8-1/8	R1/8	M8X1	28	12
3TZ-10-8	M8X1	M10X1	30	12
3TZ-10-10	M10X1	M10X1	30	12
3TZ-10-1/8	R1/8	M10X1	30	12

润滑附件

宝塔型直接头

	型号	管径	T外牙螺纹
	MYBD0418	Φ4	PT1/8
	MYBD0618	Φ6	PT1/8
	MYBD0614	Φ6	PT1/4
	MYBD0638	Φ6	PT3/8
	MYBD0818	Φ8	PT1/8
	MYBD0814	Φ8	PT1/4
	MYBD0838	Φ8	PT3/8
	MYBD1018	Φ10	PT1/8
	MYBD1014	Φ10	PT1/4
	MYBD1038	Φ10	PT3/8
	MYBD1012	Φ10	PT1/2
	MYBD1214	Φ12	PT1/4
	MYBD1238	Φ12	PT3/8
	MYBD1212	Φ12	PT1/2
	MYBD1638	Φ16	PT3/8
	MYBD1612	Φ16	PT1/2
	MYBD1634	Φ16	PT3/4
	MYBD1912	Φ19	PT1/2
	MYBD1934	Φ19	PT3/4
	MYBD2534	Φ25	PT3/4

宝塔型直角接头

	型号	管径	T外牙螺纹
	MYBH0418	Φ4	PT1/8
	MYBH0618	Φ6	PT1/8
	MYBH0614	Φ6	PT1/4
	MYBH0638	Φ6	PT3/8
	MYBH0818	Φ8	PT1/8
	MYBH0814	Φ8	PT1/4
	MYBH0838	Φ8	PT3/8
	MYBH1018	Φ10	PT1/8
	MYBH1014	Φ10	PT1/4
	MYBH1038	Φ10	PT3/8
	MYBH1012	Φ10	PT1/2
	MYBH1214	Φ12	PT1/4
	MYBH1238	Φ12	PT3/8
	MYBH1212	Φ12	PT1/2
	MYBH1638	Φ16	PT3/8
	MYBH1612	Φ16	PT1/2
	MYBH1634	Φ16	PT3/4
	MYBH1912	Φ19	PT1/2
	MYBH1934	Φ19	PT3/4
	MYBH2534	Φ25	PT3/4

内牙三通

	型号	T1 (内牙)	T2 (内牙)	T3 (内牙)
	MCBT11818	PS1/8	PT1/8	PT1/8
	MCBT11414	PS1/4	PT1/4	PT1/4
	MCBT13838	PS3/8	PT3/8	PT3/8
	MCBT11212	PS1/2	PT1/2	PT1/2
	MCBT13434	PS3/4	PT3/4	PT3/4

外牙三通

	型号	T1 (内牙)	T2 (内牙)	T3 (内牙)
	MCBT21818	PS1/8	PT1/8	PT1/8
	MCBT21414	PS1/4	PT1/4	PT1/4
	MCBT23838	PS3/8	PT3/8	PT3/8
	MCBT21212	PS1/2	PT1/2	PT1/2
	MCBT23434	PS3/4	PT3/4	PT3/4

润滑附件

外牙双通接头External two-way connector



型号	D	d	L	S
T-6-8	M6X1	M8X1	20	8
T-8-8	M8X1	M8X1	23	10
T-8-10	M8X1	M10X1	23	10
T-8-R1/8	M8X1	R8X1	23	10
T-10-10	M10X1	R10X1	25	10
T-10-R1/8	M10X1	R8X1	25	10
T-R1/8-R1/8	M10X1	R8X1	25	10
T-R1/8-R1/2	R1/8 R1/4	R1/2	30	22
T-R1/8-R1/4	R1/8 R1/4	R1/4	27	14
T-R1/4-R1/4	R1/8 R1/4	R1/4	30	14
T-R1/4-R3/8	R1/8 R1/4	R3/8	30	17

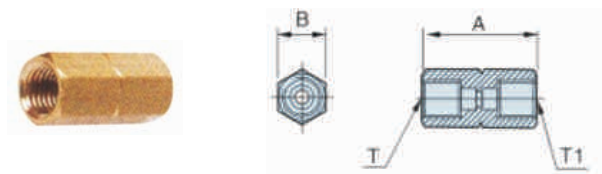
内外牙直角接头

型号	D1内牙	D2外牙
MBH21818	PS1/8	PT1/8
MBH21414	PS1/4	PT1/4
MBH33838	PS3/8	PT3/8
MBH31212	PS1/2	PT1/2
MBH33434	PS3/4	PT3/4

内牙直角接头

型号	D1内牙	D2内牙
MBH11818	PS1/8	PT1/8
MBH11414	PS1/4	PT1/4
MBH13838	PS3/8	PT3/8
MBH11212	PS1/2	PT1/2
MBH13434	PS3/4	PT3/4

内牙双通接头Internal teeth two-way connector



型号	A	B	T	T1	重量(g)
MK108	23	10	M8X1	M8X1	10
MK110	25	12	M10X1	M10X1	15

铜快速直接头

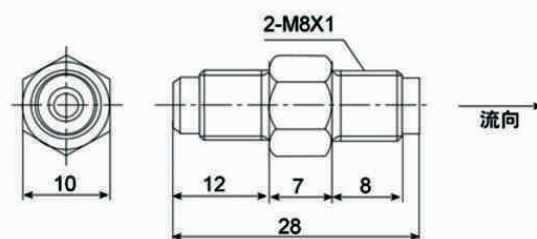
型号	管径	外牙
MKBD0418	Φ4	PT1/8
MKBD0618	Φ6	PT1/8
MKBD0614	Φ6	PT1/4
MKBD0638	Φ6	PT3/8
MKBD0818	Φ8	PT1/8
MKBD0814	Φ8	PT1/4
MKBD0838	Φ8	PT3/8

外牙直角接头

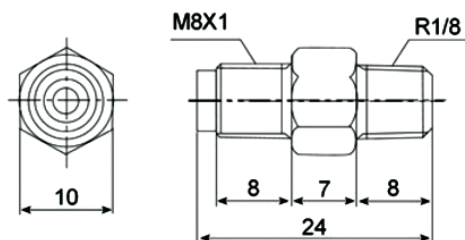
型号	D1外牙	D2外牙
MBH21818	PS1/8	PT1/8
MBH21414	PS1/4	PT1/4
MBH23838	PS3/8	PT3/8
MBH21212	PS1/2	PT1/2
MBH23434	PS3/4	PT3/4

比例式限流杆(Proportional restrictor rod)

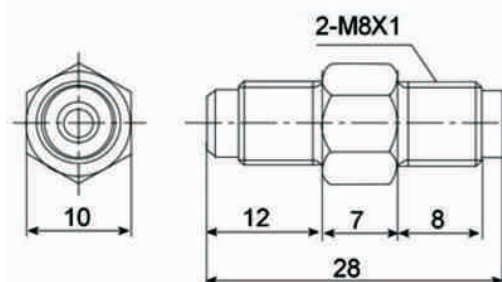
DPM型



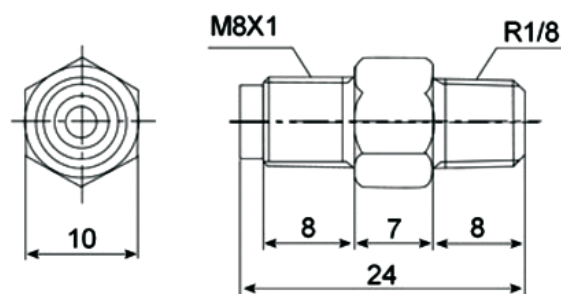
DPJ型



MC型



MJ型



1. DPM/DPG/MC/MJ型抵抗式计量件又称比例接头。

2. 管式结构，内设有限流杆和单向阀。

3. 开启压力：0.2MPa。

4. 通过节流原理控制流量，按流通能力（流量定数）对流量进行比例分配。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使用中其出油量基本相等。使用寿命长，比例接头单向阀其橡胶密封件外部试压铜套（除密封面外）防止橡胶密封件膨胀和老化。

5. 动作灵敏，排油畅通：比例接头单向阀采用锥形弹簧，确保计量件动作敏与排油畅通，并防止排除的油剂逆流。

6. 流量比：同一型号的流量在实际使用过程中会有环境温度的变化和油的粘度不同而发生变化。

1. DPM/DPG/MC/MJ type resistance measuring parts are also called proportional joints.

2. Tubular structure with restrictor rod and check valve.

3. Opening pressure: 0.2MPa

4. Control the flow through the throttling principle and distribute the flow proportionately according to the flow capacity (flow number). The far, near, high, low, horizontal or vertical installations in the relubrication system of the same type of metering component are all basically the same in actual use. Long service life, the proportion of joints check valve rubber seal external pressure test copper sleeve (except the sealing surface) to prevent rubber seals from swelling and aging.

5. Sensitive operation and smooth oil discharge: The proportional joint check valve adopts conical spring to ensure that the metering part is sensitive and oil-free and prevents the excluded oil agent from flowing backwards.

6. Flow ratio: The flow of the same model will change with the change of the ambient temperature and the viscosity of the oil during the actual use.

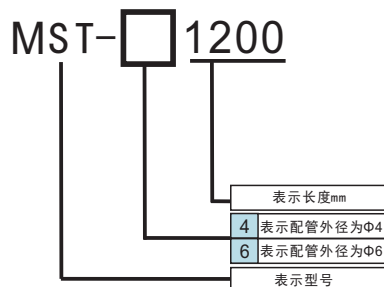
 DPM型	型号规格	型标	流量 (CC/min)	连接方式Connection mode	备注
	DPM-0	DPM0	18	进油口链接方式可与可调型和单边分配器链接 出油口方式可与套管PB和螺帽PN链接，常用于支管分配到机械润滑点。 The inlet link can be linked to the adjustable and single side allocator The outlet method can be connected with the casing PB and nut PN which is often used in the branch pipe distribution to the mechanical lubrication point	限流杆可根据客户所需流量定做 The restrictor bar can be customized
	DPM-1	DPM1	3.8		
	DPM-2	DPM2	6		
	DPM-3	DPM3	12		
	DPM-4	DPM4	18		
	DPM-5	DPM5	22		
 DPJ型	型号规格	型标	流量 (CC/min)	连接方式Connection mode	备注
	DPJ-0	DPJ0	1.8	进油口连接方式可与套管PB和螺帽PN链接 出油口端与设备连接，常用于支管末端分配到机械润滑点。 The inlet connection mode can be connected with the casing PB and nut PN. The outlet end is connected with the equipment and is often used to allocate the end of the branch pipe to the mechanical lubrication point.	限流杆可根据客户所需流量定做 The restrictor bar can be customized
	DPJ-1	DPJ1	3.8		
	DPJ-2	DPJ2	6		
	DPJ-3	DPJ3	12		
	DPJ-4	DPJ4	18		
	DPJ-5	DPJ5	22		
 MC型	型号规格	型标	流量 (CC/min)	连接方式Connection mode	备注
	MC-0	MC0	1.8	两端分别与套管PB和螺帽PN链接，常用于油路中端。 The two ends are respectively connected with the casing PB and the nut PN, which are often used in the middle of the oil road.	限流杆可根据客户所需流量定做 The restrictor bar can be customized
	MC-1	MC1	3.8		
	MC-2	MC2	6		
	MC-3	MC3	12		
	MC-4	MC4	18		
	MC-5	MC5	22		
 MJ型	型号规格	型标	流量 (CC/min)	连接方式Connection mode	备注
	MC-0	MC0	1.8	进油口连接方式可与套管PB和螺帽PA链接 出油口端与设备连接，常用于支管末端分配到机械润滑点。 The inlet connection mode can be linked to the casing PB and nut PA. The outlet end is connected with the equipment and is often used to allocate the end of the branch pipe to the mechanical lubrication point.	限流杆可根据客户所需流量定做 The restrictor bar can be customized
	MC-1	MC1	3.8		
	MC-2	MC2	6		
	MC-3	MC3	12		
	MC-4	MC4	18		
	MC-5	MC5	22		

润滑油管

外钢丝软管

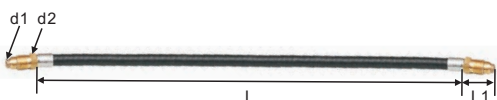


型号	配管外径 d1	使用压力 Mpa	最小弯曲半径 mm	d2	L (mm)
MST-4	Φ4	3.0	R20	Φ12	可根据用户需求定制
MST-6	Φ6	2.7	R40		

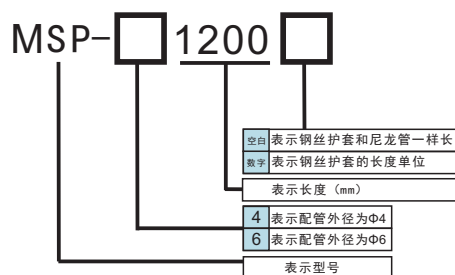


- * 外钢丝软管使用橡胶管，可在有切屑和工作环境恶劣的场所下使用，适用于温度范围-20~+80° C
- * Outside steel wire hose uses rubber hose, which can be in the use of chip and rough work environment and can apply to the temperature range - 20 ~ + 80 ° C

外钢丝护套软管

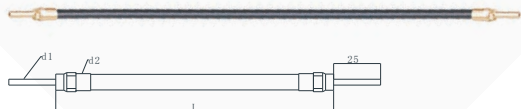


型号	配管外径 d1	使用压力 Mpa	最小弯曲半径mm	d2	L1	L (mm)
MSP-4	Φ4	3.0	R20	Φ8	17	可根据用户需求定制
MSP-6	Φ6	2.7	R40	Φ10	18	

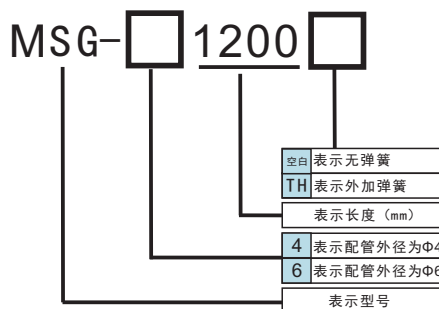


- * 外钢丝护套软管是一种外套弹簧的尼龙管，可在有切屑和工作环境恶劣的场所下使用，适用于温度范围-20~+80° C
- * Outside wire sheath uses nylon tube with spring, which can be in the use of chip and rough work environment and can apply to the temperature range - 20 ~ + 80 ° C

高压软管

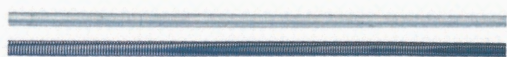


型号	配管外径d1	使用压力 Mpa	最小弯曲半径mm	d2	L (mm)
MSG-4	Φ4	20	R40	Φ12	可根据用户需求定制
MSG-6	Φ6	18	R80	Φ12	

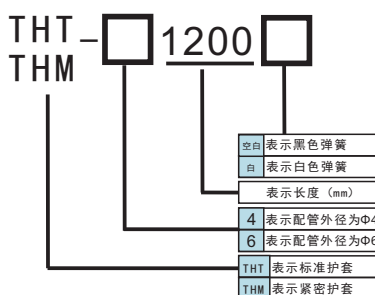


- * 耐高压软管使用聚氨酯材料软管，可在有切屑和工作环境恶劣的场所下使用，适用于温度范围-20~+80° C
- * The high pressure hose uses polyurethane hose, which can in the use of chip and rough work environment and apply to the temperature range - 20 ~ + 80 ° C

钢丝弹簧护套



型号	配管内径	弹簧长度/条	使用范围
THT	Φ4/Φ6/Φ8	2m/4m	与尼龙管胶管配合使用
THM	Φ4/Φ6/Φ8	2m/4m	

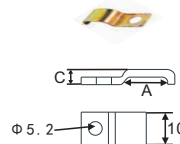


- * 外钢丝软管使用橡胶管，可在有切屑和工作环境恶劣的场所下使用，适用于温度范围-20~+80° C
- * Outside steel wire pressure hose uses rubber hose, which can be in the use of chip and rough work environment and apply to the temperature range - 20 ~ + 80 ° C

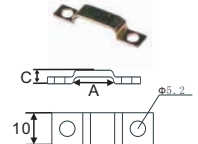
管夹

名称	型号	管径	管夹数	A	C	重量 (g)
单边固定管夹 Unilateral fixed pipe clamp	MZ1104	Φ4	1	6	5	1.2
	MZ1106	Φ6	1	8.5	7	2.6
	MZ1108	Φ8	1	10	9	2.2
	MZ1110	Φ10	1	12.5	11	3.6
	MZ1204	Φ4	2	11	5	1.8
	MZ1206	Φ6	2	14.5	7	2.8
	MZ1304	Φ4	3	15	5	2.2
双边固定管夹 Bilateral tube clamps	MZ2404	Φ4	4	18	5	3.0
	MZ2504	Φ4	5	22	5	3.2
	MZ2306	Φ6	3	20	7	3.5

米朗 MIRAN®



单边固定管夹
Unilateral fixed pipe clamp



双边固定管夹
Bilateral tube clamps

油管 (Oil pipe)



胶管 hose



尼龙管 nylon tube



铝管 aluminum tube



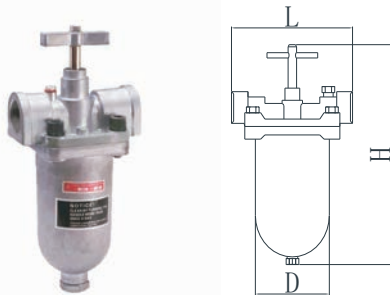
镀铜铝管 Copper coated aluminum tube



铜管 copper tube

名称Description	型号Mode	管径规格 (外径x内径) Pipe diameter specifications (outer diameterxinside diameter)				使用压力 (Mpa) Pressure applied	最小弯曲半径 (mm) minimum bending diameter	长度 (m) Length
胶管rubber pipe	PP	Φ4x2	/	Φ6x4	Φ10x8	1.0	R30	每卷Ech coil 100m
尼龙管Nylon pipe	NP-PA6	Φ4x2	Φ4x2.5	Φ6x4	Φ10x8	4.0	R30	每卷Ech coil 100m
尼龙管Nylon pipe	NP-PA11	Φ4x2	Φ4x2.5	Φ6x4	Φ10x8	6.0	R20	每卷Ech coil 100m
铝管Aluminum pipe	AP	Φ4x2	/	Φ6x4	Φ10x8	4.0	R40	每卷Ech coil 100m
镀铜铝管Copper-coated aluminum pipe	AP	Φ4x2	/	Φ6x4	Φ10x8	4.0	R40	每卷Ech coil 100m
铜管Copper pipe	CP	/	Φ4x2.5	Φ6x4.5	Φ10x8	10.0	R20	每卷Ech coil 30m

调整型过滤器



性能与特点

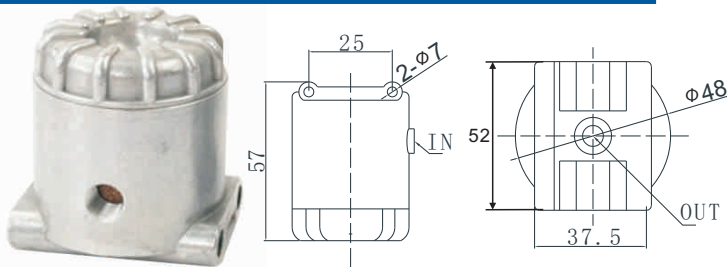
滤油面在承受压力背压力下不至于弯曲变形牢固可靠。滤油面积大。流量不会因过滤而减少。
清洗杂物简单，易操作，只需转动十字手柄，杂物即可掉入杯体中。使用寿命长，安全无故障。

Performance and features:

The oil filter will not bend and deformation under pressure back pressure. The oil filter area is large. The flow will not be reduced by filtration.
Clean sundries is simple, easy to operate. Just turn the cross handle, and the sundry can fall into cup body. Long service life, safe and trouble-free.

名称Model	口径Caliber (E)	H	L	D	流量Flow (L/min)	过滤精度 filtering precision(μ)	最大使用压力 Maximum application pressure (Mpa)
FL102	PT1/4	160	75	55	25	100	3.5
FL103	PT3/8	160	75	55	35	100	3.5
FL104	PT1/2	230	100	75	50	100	3.5
FL106	PT3/4	230	100	75	80	100	3.5
FL108	PT1	270	120	75	105	100	3.5

过滤器



性能与特点

该过滤器采用铜基滤网，具有高密度过滤，操作简单，安装方便。

Performance and features:

The filter is made of copper - based filter with high - density filtration, easy to operate and easy to install.

名称 Model	最大工作压力 Maximum operating pressure (kg/cm ²)	最大流量 maximum flow(L/min)	过滤精度 filtering precision(μ)	IN X OUT	重量 (kg)
ML-1025	30	2.5	10	PS1/8XPS1/8 PS1/4XPS1/4	0.3
ML-2530	30	3.0	25		0.3
ML-12535	30	3.0	125		0.3

油量计算方法

运动的种类	计算公式	例题K=1时	运动副种类	计算公式	例题K=1时
滚珠/滚柱/滚针轴承 	油量 $Q=0.14K \times \text{轴承直径} \times \text{轴承长}$ (ml/h)	假设有一个滚珠轴承，轴直径80MM，求每小时所需油量 $Q=0.4 \times 8 \times 10=0.32\text{ml/h}$	滚珠轴承导轨 	油量 $Q=0.012K \times \text{滑块长} \times \text{滑块宽}$ (ml/h)	假设有一滚珠导轨，滑块长8mm，滑块数为2，求每小时所需油量 $Q=0.012 \times 8 \times 2=0.19\text{ml/h}$
滑动轴承 	油量 $Q=0.023K \times \text{轴承直径} \times \text{接触轴长}$ (ml/h)	假设有一滑动轴承，轴直径80mm，接触轴长100mm，求每小时所需油量 $Q=0.023 \times 8 \times 10=1.84\text{ml/h}$	凸轮 	油量 $Q=0.013K \times \text{圆周长} \times \text{宽}$ (ml/h)	假设有一凸轮机构，凸轮圆周200mm，宽20mm，求每小时所需油量 $Q=0.013 \times 20 \times 2=0.52\text{ml/h}$
平面导轨 	水平：油量 $Q=0.0017K \times \text{滑块长} \times \text{滑块宽}$ (ml/h) 垂直：油量 $Q=0.006K \times \text{滑块长} \times \text{滑块宽}$ (ml/h)	假设有一垂直平面导轨滑块长100mm宽40mm，求每小时所需油量 $Q=0.006 \times 10 \times 4=0.24\text{ml/h}$	齿轮 	油量 $Q=0.046K \times \text{节圆直径} \times \text{齿宽}$ (ml/h)	假设有一正齿轮，节圆直径8mm，齿宽2mm，求每小时所需油量 $Q=0.046 \times 8 \times 2=0.74\text{ml/h}$
圆柱滑轨 	油量 $Q=0.023K \times \text{轴直径} \times \text{轴长}$ (ml/h)	假设有一圆柱滑轨，轴直径80mm长100mm，求每小时所需油量 $Q=0.023 \times 8 \times 10=1.84\text{ml/h}$	链条 	油量 $Q=0.008K \times \text{节链长} \times \text{宽}$ (ml/h)	假设有一链条总长300mm，链宽8mm，求每小时所需油量 $Q=0.008 \times 30 \times 8=0.19\text{ml/h}$

故障排除法

序号	现象	可能原因	排除方法
1	油泵不转	电压等级不对	使用正确的电源
		接线错误	按接线图配线
		吸入异物将泵卡死	解体油泵、清除异物
		联轴器损坏或脱落	重新恢复联轴器
		电机热保护起作用	等待数分钟即可恢复
		油位太低	补充润滑油至液位
		马达损坏	更换马达
2	压力不足	油管泄漏	排除泄漏点
		压力表失效	更换压力表
		溢流阀中有杂物	拆卸清洗
		溢流阀压力调节过低	重新调高溢流阀压力
		吸油口过滤网被堵塞	清洗油箱、清洗过滤网
		油品粘度太低	选择较高粘度油品
		油箱存水位太高	排水
3	不出油但油泵转	泵内空气未排干净	手动泵油、排气
4	出油量少	吸油口过滤网被堵塞	清洗油箱、清洗过滤网
		溢流阀中有杂物	拆卸清洗
		管路阻力太大	疏通管路
		溢流阀压力调节过低	重新调整溢流阀压力
		长期使用油泵磨损	调高溢流阀压力或更换泵体
5	压力开关失控	系统压力不足	见序号2项故障及排除
		接线错误	正确配线
		压力开关坏	更换压力开关
6	液位开关失控	浮球损坏	更换浮球
		液位传感器失效	更换液位传感器
		接线错误	正确配线
7	容积式分配器不能正常工作	分配器活塞杆突出不够	延长泵油时间
		溢流阀中有杂物	拆卸清洗溢流阀
		卸压阀卡死	拆卸清洗卸压阀
		系统压力太高	适当降低溢流阀压力
		管路弹性太大	改用高质量高刚性管路
		分配器损坏	更换分配器

Calculation of oil volume required for lubrication

Type of Moving objects	Formula	Example (when K=1)	Type of Moving objects	Formula	Example (when K=1)
Ball-bearing Roller bearing Cylindrical 	Oil volume $Q=0.14K \times$ bearing diameter bearing qty (ml/h)	Suppose there is a ball-bearing, the bearing diameter is 80mm, every hour the required oil volume $Q=0.04 \times 8 \times 1=0.32\text{ml/h}$	Ball-bearing track 	Oil volume $Q=0.012k \times$ block length x block width(ml/h)	Suppose there is a linear sliding track, the block length is 80mm, quality of blocks is 2, every hour the required oil volume $Q=0.012 \times 8 \times 2=0.19\text{ml/h}$
Plain bearing 	Oil volume $Q=0.023K \times$ bearing diameter x contact length(ml/h)	Suppose there is a plain bearing, the bearing diameter is 80mm, contact length is 100mm, every hour the required oil volume $Q=0.023 \times 8 \times 10=1.84\text{ml/h}$	Cam 	Oil volume $Q=0.013k \times$ perimeter x width(ml/h)	Suppose there is a cam, the perimeter is 200mm, width is 20mm, every hour the required oil volume $Q=0.013 \times 20 \times 2=0.52\text{ml/h}$
Smooth sliding track 	Horizontal: Oil volume $Q=0.0017 \times$ block length x block width(ml/h) Vertical: Oil volume $Q=0.006 \times$ block length x block width(ml/h)	Suppose there is a smooth sliding track vertically placed, the block length is 100mm, width is 40mm, every hour the required oil volume $Q=0.006 \times 10 \times 4=0.24\text{ml/h}$	Gear 	Oil volume $Q=0.046k \times$ diameter of pitchcircle x gear width(ml/h)	Suppose there is a gear, the diameter of pitchcircle is 80mm, gear width is 20mm, every hour the required oil volume $Q=0.046 \times 8 \times 2=0.74\text{ml/h}$
Cylindrical sliding track 	Oil volume $Q=0.023K \times$ bearing diameter x contact length(ml/h)	Suppose there is a rolling cylinder, the diameter is 80mm, length is 100mm, every hour the required oil volume $Q=0.023 \times 8 \times 10=1.84\text{ml/h}$	Chain 	Oil volume $Q=0.008k \times$ chain length x width(ml/h)	Suppose there is a chain, the length is 300mm, chain width is 8mm, every hour the required oil volume $Q=0.008 \times 30 \times 0.8=0.19\text{ml/h}$

Eliminating methods

Series	Phenomenon	Possible causes	Eliminating methods
1	Non-rotation of oil pump	Incorrect voltage rates	Use the correct power source
		incorrect connection	Follow the wiring diagram
		Pump is deadlocked by foreign body aspiration	Open oil pump and remove foreign body
		The coupling is damaged or shed	Restores the linoleum
		Thermal protection of motor works	Wait for a few minutes to recover
		The oil level is too low	Add lubricating oil to liquid level
		The motor damage	Replace the motor
2	insufficient pressure	Oil tube leaking	Eliminating leaking point
		Pressure gauge failures	Replace pressure gauge
		There is sundries in the overflow valve	Disassemble and clean
		The pressure of the overflow valve is too low	Reset higher pressure of the overflow valve
		The filter screen of the suction nozzle is blocked.	Clean oil tank and filter screen
		The oil viscosity is too low	Disassemble and clean
		The reservoir of oil tank is too high.	Select high viscosity oils
3	No oil outlet while the pump rotates	The air in the pump is not clean.	drainage
4	Little oil outlet	The filter screen of the suction nozzle is blocked	Press the Man button to venting
		There is sundries in the overflow valve	Clean oil tank and filter screen
		There is too much resistance in the pipeline	Disassemble and clean
		The pressure of the overflow valve is too low	Dredge the pipe line
		Wear of oil pump for a long time use	Reset the pressure of the overflow valve
5	Pressure switch is out of control	Inadequate system pressure	Reset higher pressure of the overflow valve or replace the pump body
		incorrect connection	Follow the wiring diagram
		Pressure switch is broken	Replace pressure switch
6	The liquid level switch is out of control	Floating ball damage	Replace the float ball
		The liquid level sensor fails	Replace the liquid level sensor
		incorrect connection	Follow the wiring diagram
7	The volume distributor is not working properly	The piston rod of distributor is not prominent enough	Extend pump oiling time
		There is sundries in the overflow valve	Remove and clean the overflow valve
		pressure release valve is deadlocked	Disassemble and clean the pressure release valve
		System pressure is too high	Properly reduce pressure of overflow valve
		The pipe line is too elastic.	Use high quality and high rigid pipe line
		Distributor damage	Change distributor



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