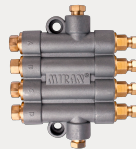
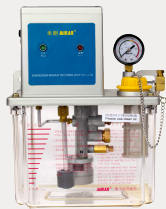


米朗集中润滑系统

MIRAN CENTRALIZED LUBRICATION SYSTEMS



质量第一 用户至上 诚信为本

Quality First

Customer First

Credit First



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

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油脂泵 Grease pump 000 #~ 00

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深圳市米朗科技有限公司是经国家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已发展为全国知名的机械集中润滑系统专业生产厂家。在大陆创立于2003年初，集中润滑系统产品种类齐全，质量稳定，包含有抵抗式、加压式、容积式、循环式、喷雾式、递进式等干、稀油润滑产品。产品广泛应用于各种切削五金、数控机床、加工中心、冲压、锻造、锻压、纺织、塑料、木工、橡胶、矿山、冶金、电梯、生产线、工程机械、建筑、印刷、食品等各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、近20年专业机械润滑系统制造的经验与技术，并与美国 and 德国最著名润滑系统企业合作，积极自主研发制造引导未来润滑行业发展趋势产品，来服务于不同客户提出的润滑解决方案。

三、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，设有东莞、佛山、广州、宁波、杭州、苏州、常州、武汉、长沙、成都、西安、天津、沈阳等销售分公司或代理商，并继续广泛发展代理商，持续拓展国内销售网点与国外市场，产品已销往东南亚、俄罗斯、土耳其、印度、伊朗、欧美等地区，所有出厂产品均可获得专业的终身维护，从而让客户满意。

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，沟通联系我司定制相关产品。

Shenzhen Miran Technology Co., LTD. Is a national high-tech enterprise. The headquarters of the company is located at the center of Shenzhen Guangming high-tech park, with engineering department, research and development center, manufacturing department, testing center, after-sales service department, Marketing Department and direct sales offices, agents and dealers all over the country, providing thoughtful and timely services for our customers. The company has a modern industrial park of more than 300 mu in Xiangyang city, Hubei province, and a dust-free cleaning workshop of more than 50,000 square meters. It has introduced more than 3,000 sets of modern manufacturing and testing equipment. All products of the company have obtained CE and 3C certification, and obtained ISO9001:2008 international quality system certification, in accordance with the international quality certification standards organization design, production and sales strictly, to ensure product quality and customer satisfaction.

Shenzhen Miran Technology Co., LTD. Has developed into a famous professional manufacturer of centralized mechanical lubrication system. In the mainland was founded in early 2003, the centralized lubrication system product variety is complete, the quality is stable, including dry and thin oil lubrication products with resistance type, the pressure type, the volume type, the circulation type, the mist type, the progressive type and etc. Products are widely used in industries of machinery lubrication system and chassis centralized lubrication system, such as all kinds of metal cutting, CNC machine tools, processing center, stamping, forging, forging, textiles, plastics, wood, rubber, mining, metallurgy, elevator, production line, engineering machinery, construction, printing, food and so on, lubrication system products sold throughout the country. The company also has set up many multiple offices in major domestic cities.

Our advantages:

1. Strong Production Ability. The company has set up large production bases in Guangming district of Shenzhen and Xiangyang of Hubei province, with timely supply and sufficient spot, which can meet the demand of large quantities of orders.

2. The company has nearly 20 years of professional experience and technology in mechanical lubrication system manufacturing, and cooperate with the most famous lubrication system enterprises in the United States and Germany, actively develop and manufacture products leading the future development trend of the lubrication industry, to serve the lubrication solutions proposed by different customers.

3. Perfect sales and after-sales service system. The company based in Shenzhen, which has set up multiple directly agencies on the main industrial centers around the world, such as Dongguan, Foshan, Guangzhou, Ningbo, Hangzhou, Suzhou, Changzhou, Chengdu, Wuhan, Changsha, Xi'an, Tianjin, Shenyang and other branch or agent, sales agent and continue to develop, continue to expand domestic and foreign market sales network, products have been sold to southeast Asia, Russia, Turkey, India, Iran, Europe and the United States and other regions, all products can be obtained with professional lifelong maintenance, so that satisfy our clients.

Adhering to the tenet of "quality first, customer first, honesty oriented", the company provides customers with high-quality products and services. Welcome customers to call, write letters, consultation, negotiation, cooperation or visit guidance. Customers are welcome to contact us with customized products based on their own needs.

稀油泵系列Thin oil pump series



油脂稀油一体泵系列 Grease and thin oil pump series



油脂泵Grease pump



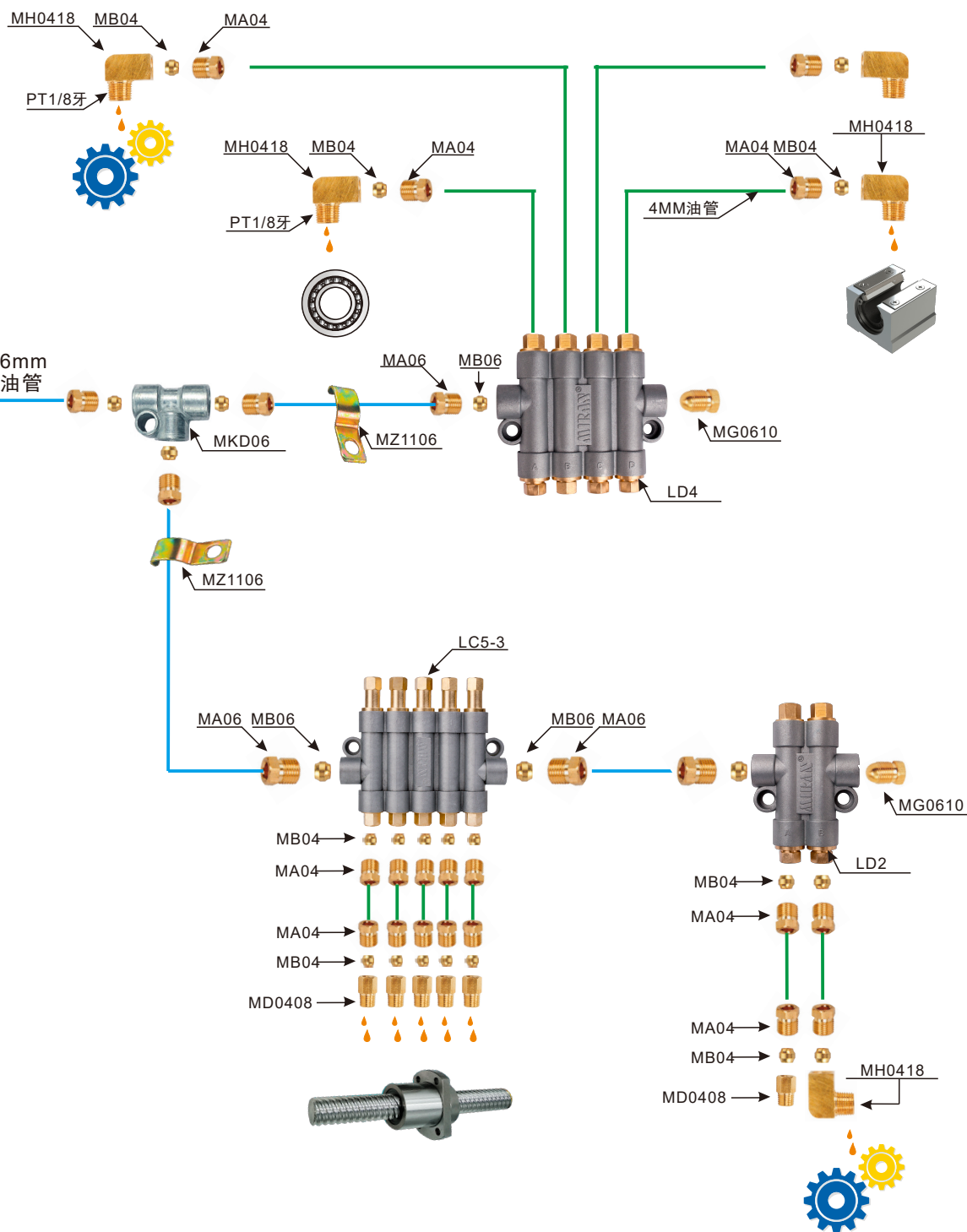
黄油泵（干油泵）Butter pump (dry oil pump)



手动泵分配器以及润滑附件系列图 Manual pump distributor and diagram of lubrication accessories



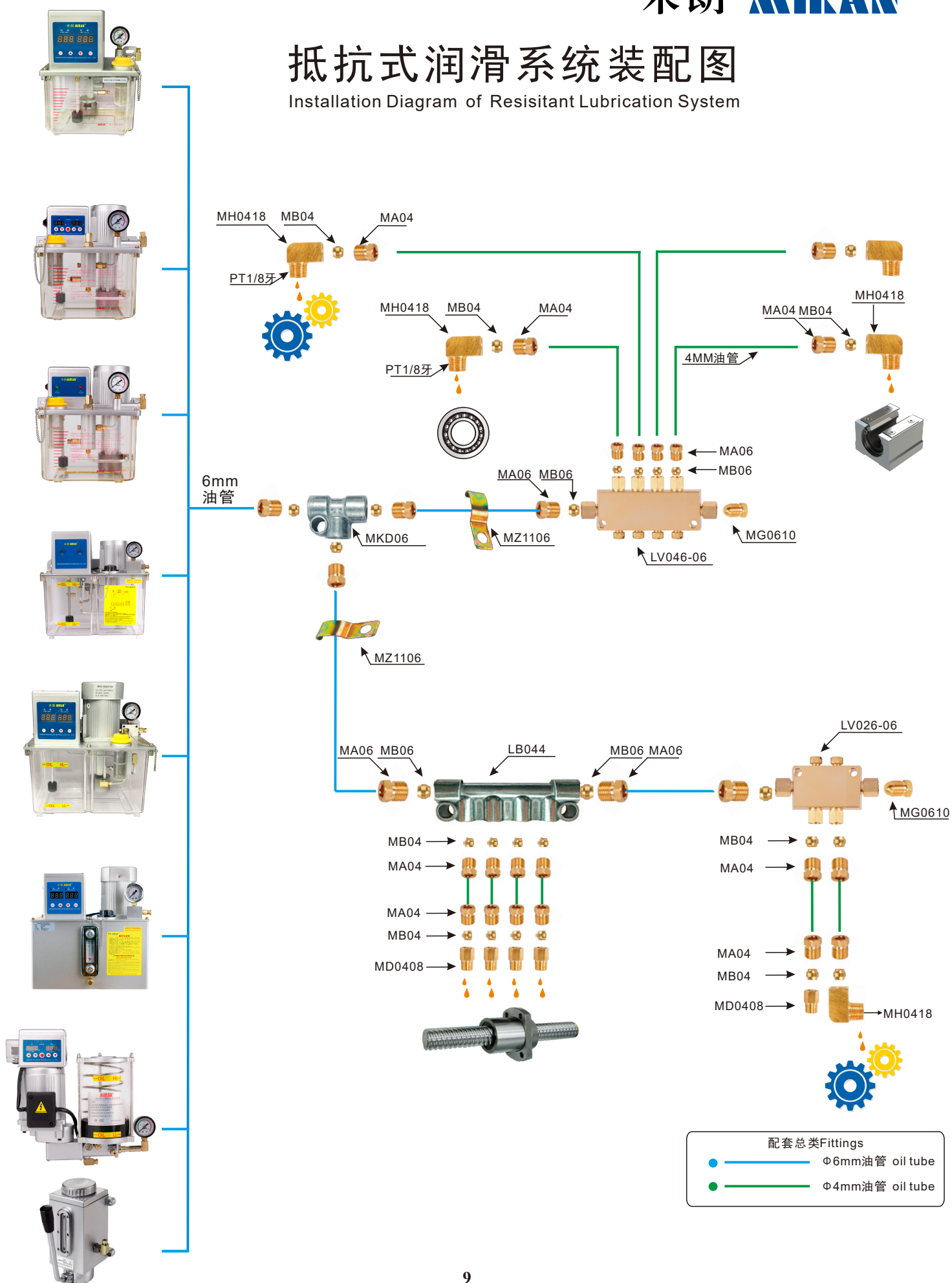
Installation Diagram of Volumetric Lubrication System



● ———— $\Phi 6\text{mm}$ 油管 oil tube
● ———— $\Phi 4\text{mm}$ 油管 oil tube

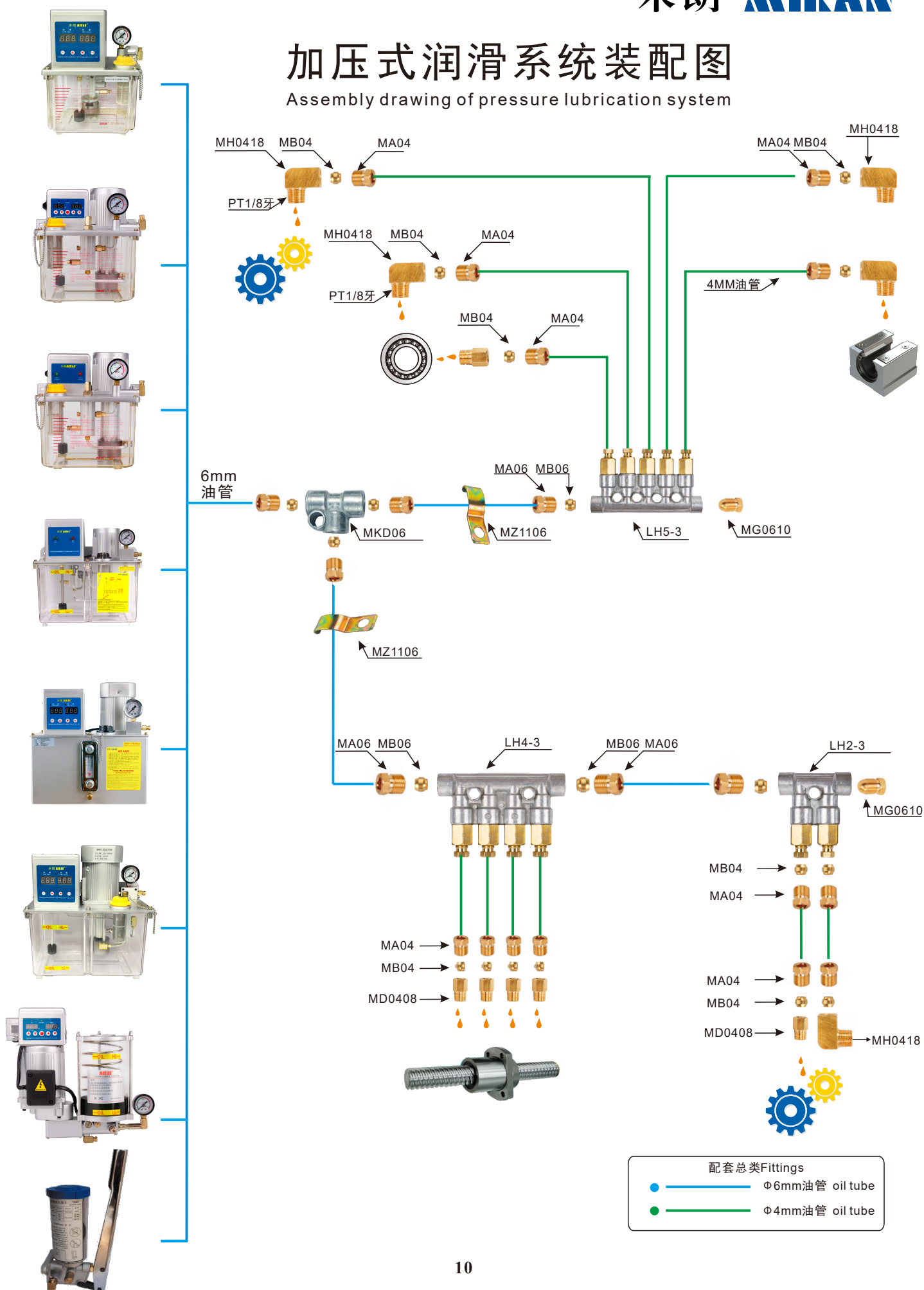
抵抗式润滑系统装配图

Installation Diagram of Resistant Lubrication System



加压式润滑系统装配图

Assembly drawing of pressure 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

MR - [] [] [] [] - [] [] [] [] [] [] [] []

空白	表示液位报警24V输出	Blank: Liquid level alarm 24V output.
H	表示液位报警220V输出	H: Liquid level alarm 220V output.
Z	表示震德式电路	Z: "CD" injection molding machine for special circuit.
J	表示单灯液位压力独立输出报警	J: Single lamp level pressure independent output alarm.
K	表示非标定制电路	K: Non-standard custom circuit.

空白	表示液位开关为下通(默认)	Blank: level switch down is on(acquiesce in)
D	表示液位开关为上通	D: level switch up is on
00	表示无液位开关	00: without level switch

空白	不带蜂鸣器	Blank: without buzzer
B	带蜂鸣器	B: with buzzer

空白	表示异步电机	Blank: induction motor
A	表示罩极电机	A: Motor

X	表示内藏卸压机构, 配合检知容积式分配器使用
T	表示无卸压机构, 配合抵抗式分配器使用

X: Built-in pressure take-off mechanism
T: Without pressure take-off mechanism

压力开关动作压力值 Pressure switch action pressure

10	10kgf/cm²	00	不带压力开关	10: 10kgf/cm²	00: without pressure switch
05	5kgf/cm²			05: 5kgf/cm²	

油箱容量 Oil tank volume

1	1L	1.5	1.5L	2	2L	3	3L	4	4L	5	5L	41/61/81等	4L/6L/8L等金属油箱
													41/61/81: 4L/6L/8L Metal Tank

电机种类 Motor type

1	单相110V	3	三相220V	5	直流24V	1: single phase 110V	4: three phase 380V
2	单相220V	4	三相380V			2: single phase 220V	5: DC 24V
						3: three phase 220V	

0	不带双定时电脑块	0: without dual-timer module
3	带NK-3型数码显示轻触式按键双定时电脑	3: with dual-timer with digital display and press buttons

电机极数2P Number of motor poles 2P

润滑泵每分钟吐出量 Lubrication pump per minute discharge capacity

1	0~100CC	4	300~400CC
2	150~200CC	5	400~500CC
3	200~300CC		

电动润滑油泵编号 Code of Electric lubricating oil pump

MR	稀油泵	MR: oil lubrication pump
MRG	稀油油脂一体泵	MRG: oil and grease integrated pump
MRH	油脂泵	MRH: grease pump
MGH	黄油泵/干油泵	MGH: butter pump

在后面资料中请注意:

1. 采用异步电机的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。
2. 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。
3. 油箱材质可以按照客户要求定制, 如铁或铝等。接线电路可以根据客户要求定制。

Attention:

1. The working time of the asynchronous motor can be adjusted to a long time. For example, the pump can work continuously for 5 minutes without interruption.
2. Semi-automatic and fully automatic thin oil pump for 5L plastic fuel tank are regular products, which are not listed in the following data.
3. Fuel tank material can be customized, such as iron or aluminum, etc. Wiring circuit also can be customized

MR-2202 (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-2202-200TA	220V 50/60HZ	2400	18W	0.12	18	35	2L	150~200 CC/min	30-1000	MR-2201代表 电压110V MR-2202代表 电压220V
MR-2202-200XA	220V 50/60HZ									
MR-2202-210XA	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，带A为罩极电机。

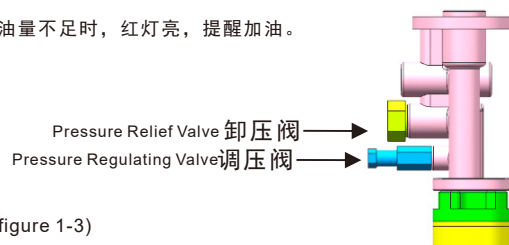
*Mode name with "T" is resistant, mode name with "X" is volumetric, mode name with "A" is shade-pole motor

性能与特点Performance Characteristics

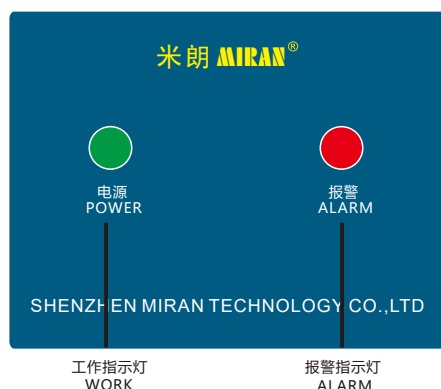
1. 供油和间歇时间同主机电脑控制设定。
2. 油箱容量有2、3、4、5升等，吐出量150-200CC/min，油箱有目视油位计和自动控油装置，当油量不足时，红灯亮，提醒加油。
3. 油泵里面内设两个阀（一个调压阀，一个卸压阀）
4. 可根据客户需求定制专属金属油箱
(可根据客户需要定做专属润滑方案)

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.

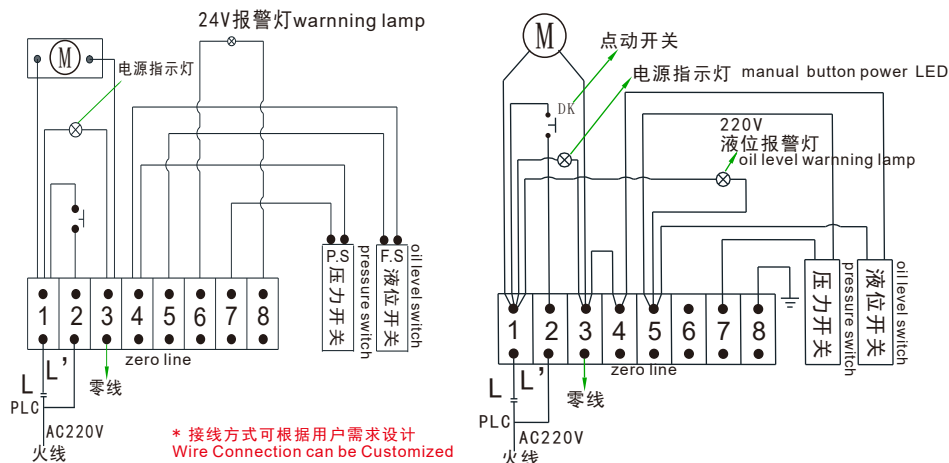
(specific lubrication plan can be customized)



面板图 The control panel



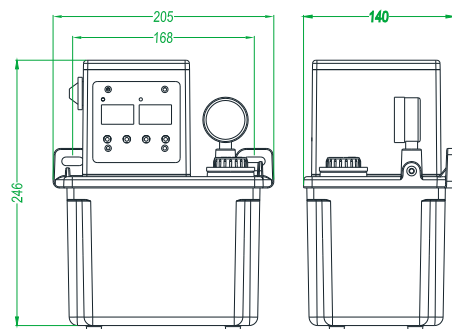
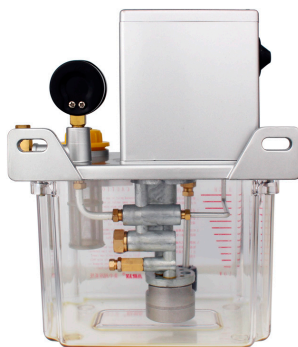
接线图The wiring diagram



MR-2232 (2L)

稀油电动润滑油泵微电脑型

Self-control electric oil lubrication pump



技术参数 Technical Parameters

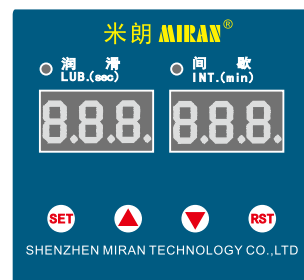
型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MR-2232-200TAB	220V 50/60HZ	2400	18W	0.12	18	35	2L	150~200 CC/min	30-1000	MR-2231代 表电压110V MR-2232代 表电压220V
MR-2232-200XAB	220V 50/60HZ									
MR-2232-210XAB	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，带A为罩极电机。

*Mode name with "T" is resistant, mode name with "X" is volumetric, mode name with "A" is shade-pole motor

使用方法 Method

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)

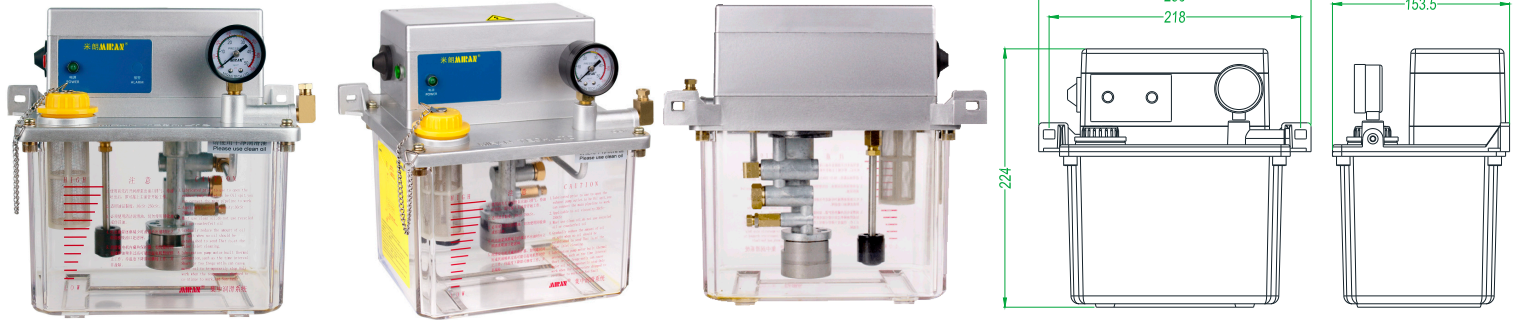


1. Working time: press and hold the SET button, release it when the numbers jump, then press ▲ ▼ to set unit digit; and press the button of SET again, to set ten digit with pressing ▲ ▼; press SET to hundreds digit(1~999 seconds).
2. Interval time: press and hold the SET button, release it when the numbers 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-2202 (3L)

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-2202-300TA	220V 50/60HZ	2400	18W	0.12	18	35	3L	150~200 CC/min	30-1000	MR-2231代表 电压110V
MR-2202-300XA	220V 50/60HZ									MR-2232代表 电压220V
MR-2202-310XA	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，带A为罩极电机。

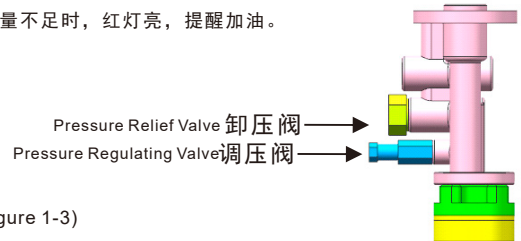
*Mode name with "T" is resistant, mode name with "X" is volumetric, mode name with "A" is shade-pole motor

性能与特点Performance Characteristics

- 供油和间歇时间同主机电脑控制设定。
- 油箱容量有2、3、4、5升等，吐出量150-200CC/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。
- 油泵里面内设两个阀（一个调压阀，一个卸压阀）
- 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)

- Oil supply and intermittent time are adjustable by PC controller.
- 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.
- There are two valves in the oil pump, pressure regulating valve and unloading valve. (refer to figure 1-3)
- Metal oil tank can be customized.

(specific lubrication plan can be customized)

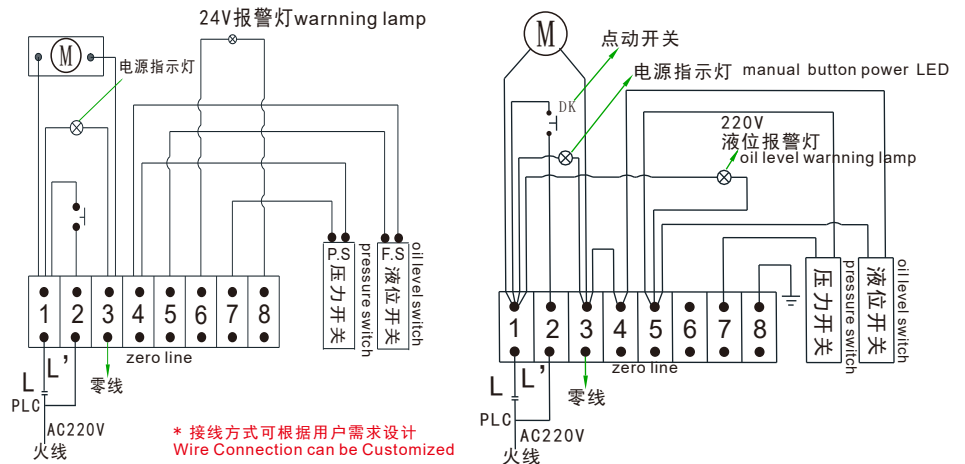


面板图 The control panel



工作指示灯
WORK

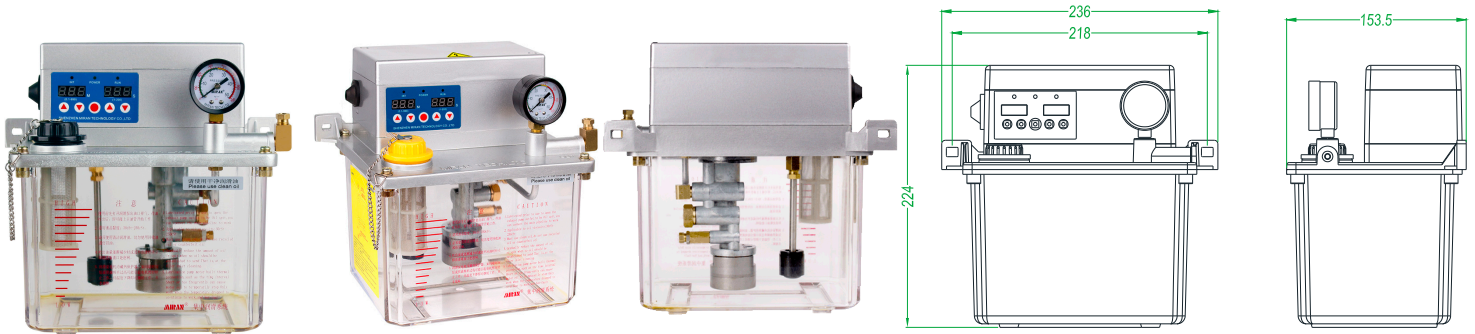
接线图The wiring diagram



MR-2232 (3L)

稀油电动润滑油泵微电脑型

Self-control Oil Lubrication Pump



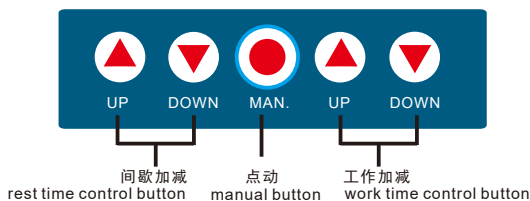
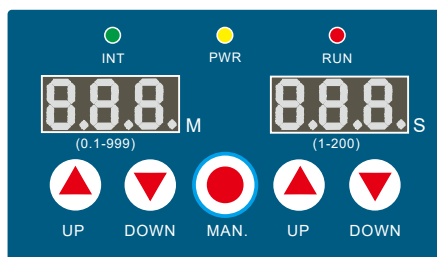
技术参数Technical Parameters

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-2232-300TAB	220V 50/60HZ	2400	18W	0.12	18	35	3L	150~200 CC/min	30-1000	MR-2231代表 电压110V MR-2232代表 电压220V
MR-2232-300XAB	220V 50/60HZ									
MR-2232-310XAB	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，带A为罩极电机。

*Mode name with "T" is resistant, mode name with "X" is volumetric, mode name with "A" is shade-pole motor

接线图The wiring diagram



性能与特点Performance characteristics

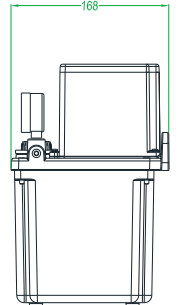
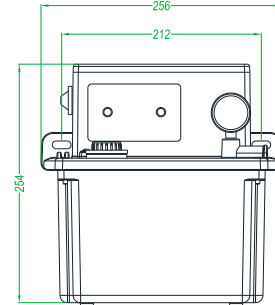
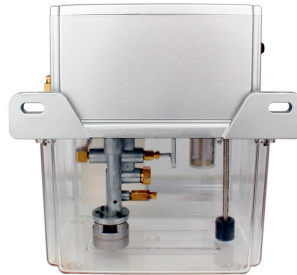
1. 加油时间由控制面板右侧的上升（UP延长时间）和下降（DOWN缩短时间）按键设定，最长加油时间可达200秒，精度为1秒。间歇时间由控制面板左侧的上升（UP延长时间）和下降（DOWN缩短时间）按键设定，间歇时间最长可达999分钟，最短为0.1分钟，精度为0.1分钟。时间设定时，按一次按键，跳动数为1，按住按键不放，跳动可以加速，所有设定在设定完成后或按手动（Man）按键后，即刻生效。
2. 当油泵显示ERP报警时，表示压力不足，检查压力正常时，按一下（Man）按键，消除报警。
3. 当油泵显示ERO时，表示油量不足，加油后自动消除报警。
4. 按住（Man）按键不放为点动测试，可一直出油。
(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-2202 (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	吐油量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MR-2202-400TA	220V 50/60HZ	2400	18W	0.12	18	35	4L	150~200 CC/min	30~1000	MR-2201代表 电压110V MR-2202代表 电压220V
MR-2202-400XA	220V 50/60HZ									
MR-2202-410XA	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，带A为罩极电机。

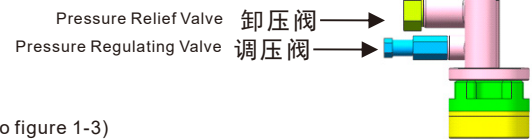
*Mode name with "T" is resistant, mode name with "X" is volumetric, mode name with "A" is shade-pole motor

性能与特点Performance Characteristics

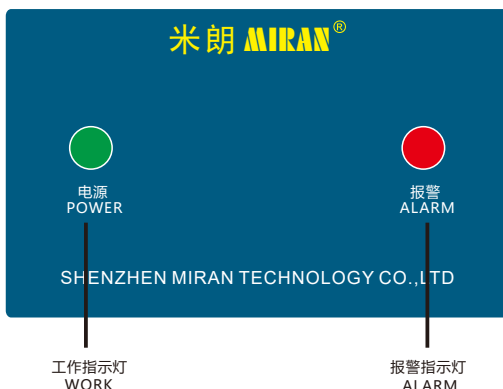
1. 供油和间歇时间同主机电脑控制设定
2. 油箱容量油2、3、4升等，吐油量150~200CC/min，油箱有可视油位计和自动控油装置，当油量不足时，红灯亮，提醒加油。
3. 油泵里面内设两个阀（一个调压阀，一个卸压阀）
4. 可根据客户需求定制专属金属油箱
(可根据客户要求定做专属润滑方案)

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.

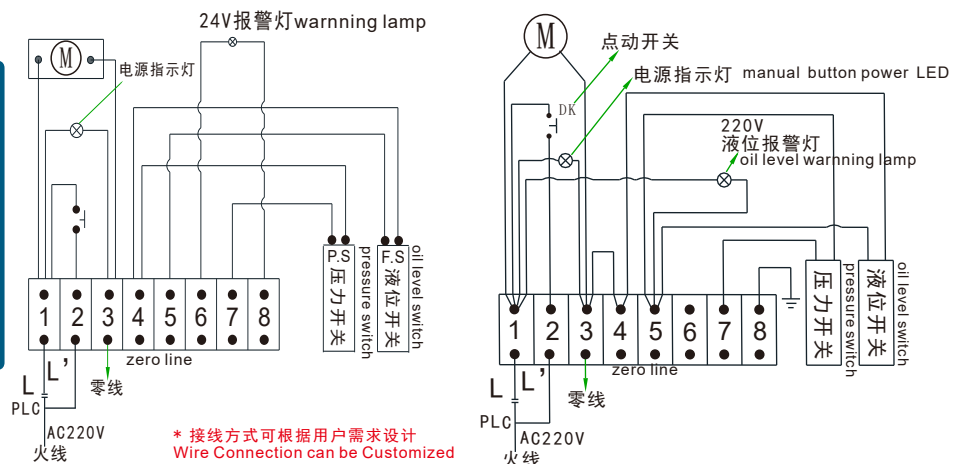
(specific lubrication plan can be customized)



面板图 The control panel



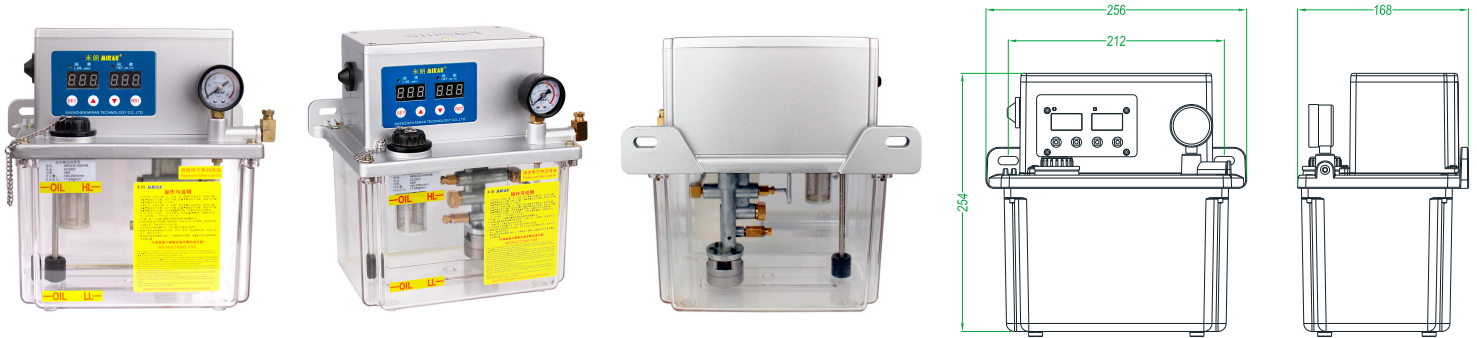
接线图The wiring diagram



MR-2232 (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-2232-400TAB	220V 50/60HZ	2400	18W	0.12	18	35	4L	150~200 CC/min	30-1000	MR-2231代表 电压110V MR-2232代表 电压220V
MR-2232-400XAB	220V 50/60HZ									
MR-2232-410XAB	220V 50/60HZ									

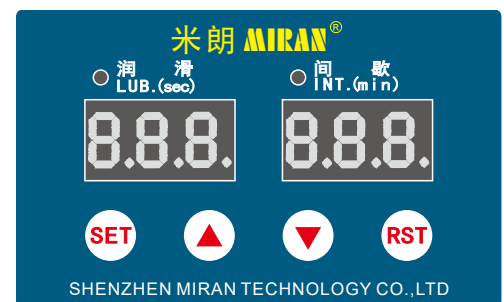
*型号带T为抵抗式，带X为容积式，带A为罩极电机。

*Mode name with "T" is resistant, mode name with "X" is volumetric, mode name with "A" is shade-pole motor

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）



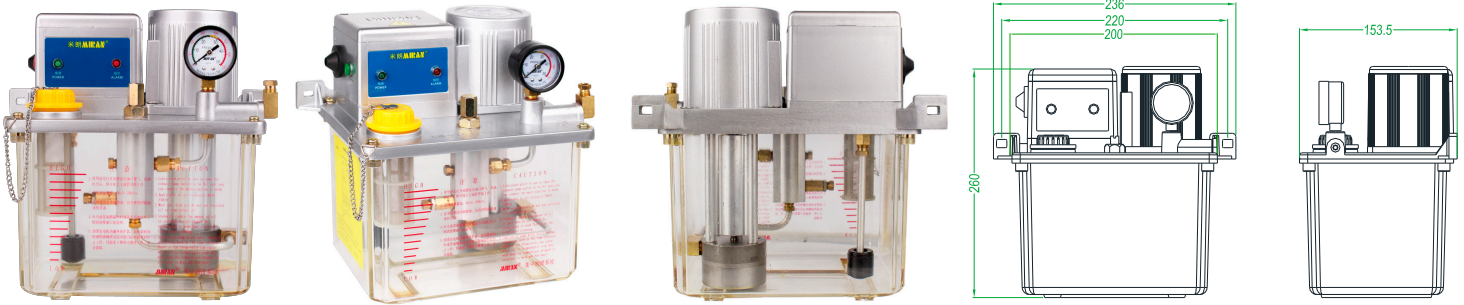
1. Working time: press and hold the SET button, release it when the numbers jump, then press ▲▼ to set unit digit; and press the button of SET again, to set ten digit with pressing ▲▼; press SET to hundreds digit(1~999 seconds).
2. Interval time: press and hold the SET button, release it when the numbers 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)

MRG-3202(3L)

油脂稀油一体润滑油泵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	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm	最大压力 Max. pressure kgf/cm	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm	备注 Remarks
MRG-3202-300T	220V 50/60HZ	1350	25W	0.22	20	35	3L	200~300 CC/min	30#稀油~00#油脂	MRG-3201代表 电压110V
MRG-3202-300X	220V 50/60HZ									MRG-3202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，不带"A"为异步电机

*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

性能与特点 Performance characteristics

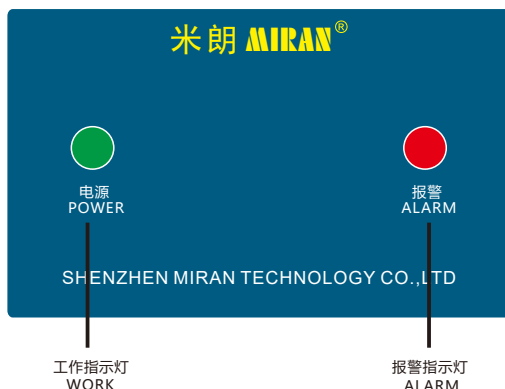
1. 供油和间歇时间同主机电脑控制设定
2. 油箱容量油2、3、4升等，吐出量200~300CC/min，油箱有目视油位计和自动控油装置，当油量不足时，红灯亮，提醒加油。
3. 油泵里面内设两个阀（一个调压阀，一个卸压阀）
4. 可根据客户需求定制专属金属油箱
(可根据客户需要定做专属润滑方案)

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 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.

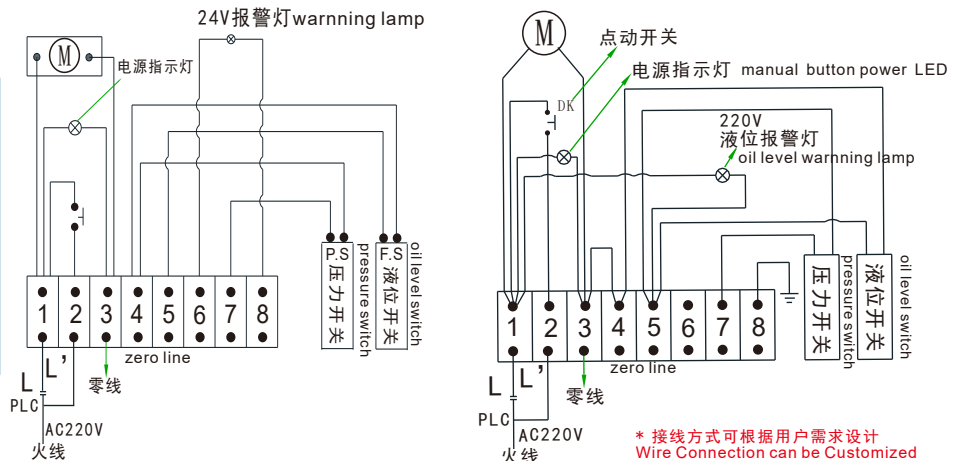
(specific lubrication plan can be customized)



面板图 The control panel



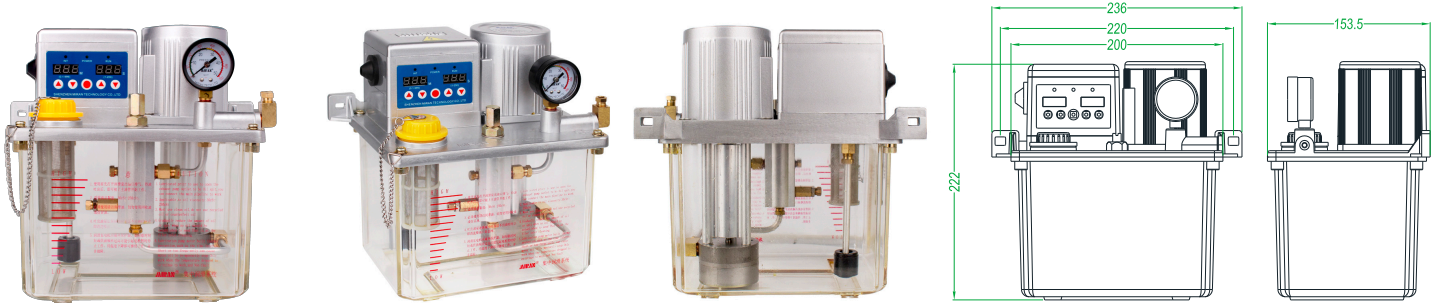
接线图 The wiring diagram



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

MRG-3232 (3L)

油脂稀油一体润滑油泵微电脑型 Self-control Grease and Thin Oil Lubrication Pump



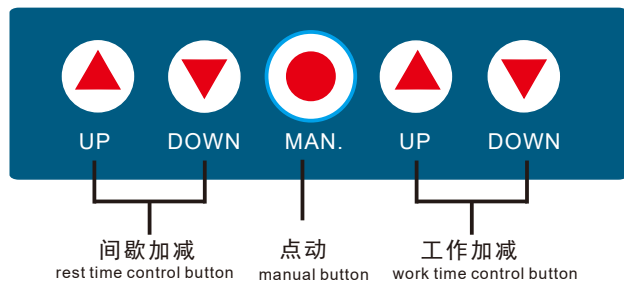
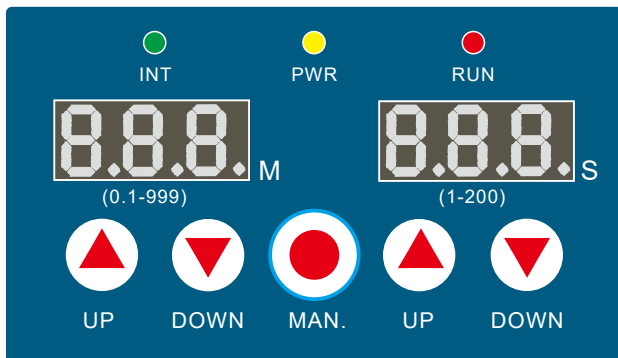
技术参数 Technical Parameters

型号 Model	电压频率 Voltage	额定转速 Rated ritary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm²	最大压力 Max pressure kgf/cm²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm²	备注 Remarks
MRG-3232-300TB	220V 50/60HZ	1350	25W	0.22	20	35	3L	200~300 CC/min	30#稀油~00#油脂	MRG-3231 代表电压110V
MRG-3232-300XB	220V 50/60HZ									MRG-3232 代表电压220V
MRG-3232-310XB	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，不带“A”为异步电机

*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

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)

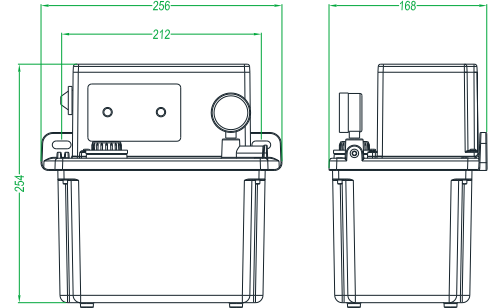
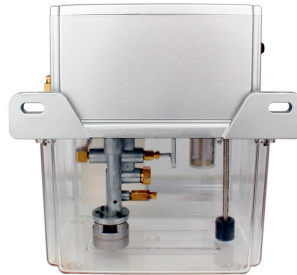
MRG-2202 (4L)

异步电机

Asynchronous motor

油脂稀油一体润滑油泵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	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-2202-400T	220V 50/60HZ	1350	25W	0.22	20	40	4L	200~300 CC/min	30#稀油~00#油脂	MRG-2201代表 电压110V MRG-2202代表 电压220V
MRG-2202-400X	220V 50/60HZ									
MRG-2202-410X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，不带“A”为异步电机

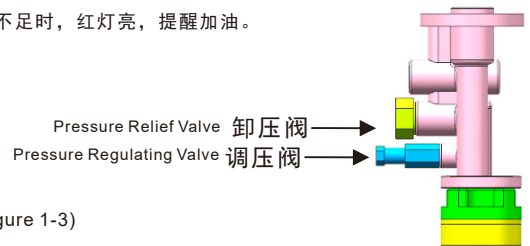
*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

性能与特点 Performance characteristics

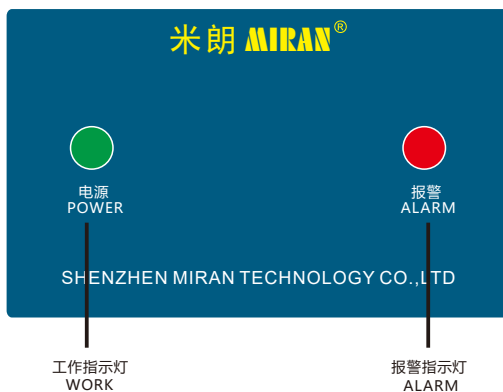
1. 供油和间歇时间同主机电脑控制设定
2. 油箱容量油2、3、4升等，吐出量200-300CC/min，油箱有目视油位计和自动控油装置，当油量不足时，红灯亮，提醒加油。
3. 油泵里面内设两个阀（一个调压阀，一个卸压阀）
4. 可根据客户需求定制专属金属油箱。
(可根据客户需要定做专属润滑方案)

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.
3. The red light is on when the oil quantity is insufficient, which reminds you to fill it up.
4. There are two valves in the oil pump, pressure regulating valve and unloading valve. (refer to figure 1-3)

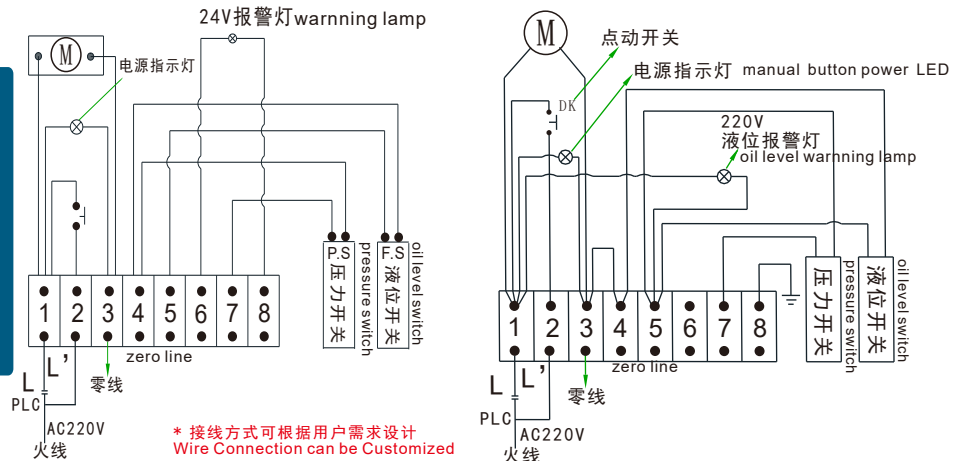
(specific lubrication plan can be customized)



面板图 The control panel



接线图 The wiring diagram



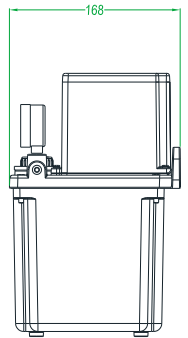
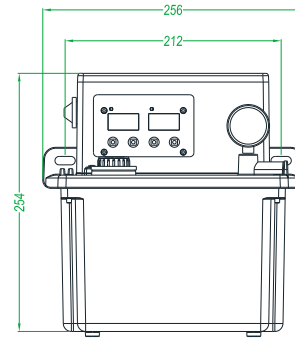
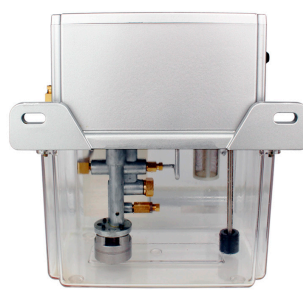
MRG-2232 (4L)

异步电机

Asynchronous motor

油脂稀油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	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-2232-400TB	220V 50/60HZ	1350	25W	0.22	20	40	4L	200~300 CC/min	30#稀油~00#油 脂	MRG- 2231代表电 压110V MRG- 2232代表电 压220V
MRG-2232-400XB	220V 50/60HZ									
MRG-2232-410XB	220V 50/60HZ									

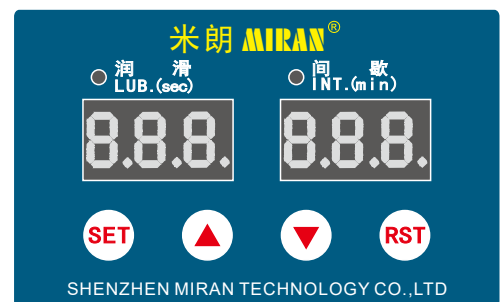
*型号带T为抵抗式，带X为容积式，不带“A”为异步电机

*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

使用方法 Method

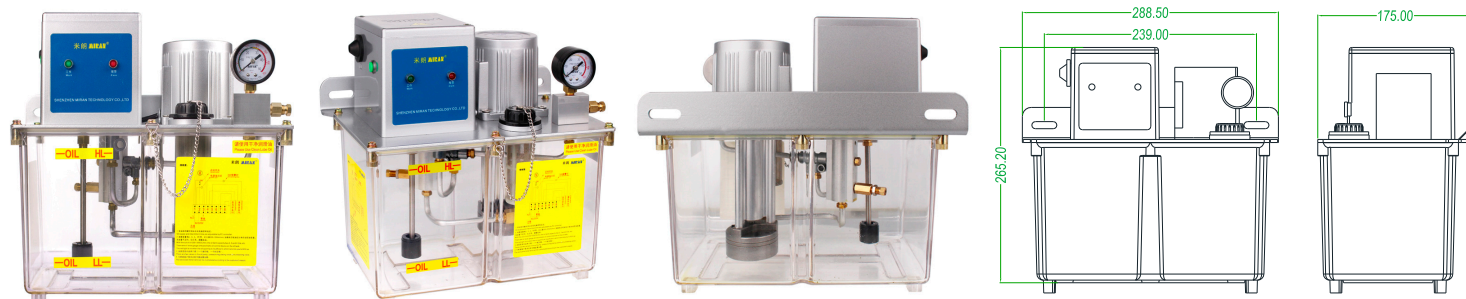
1. 工作时间：请长按SET键，见数字在跳动时，松开SET键，按▲▼键设定个位数；按下SET键，按▲▼键设定十位数；再按下SET键，一下SET键设定百位数（1-999秒）。
2. 间歇时间：请长按SET键，见另一个显示屏数字在跳动时，松开SET键，按键▲▼键设置个位数；按一下SET键，同时按键▲▼约2秒，间歇时间可分秒转换（1-999分或1-999秒）。
3. RST 键按住此键可重新润滑或清除异常报警。
4. 电路电源接通后系统属于给油状态，并进入LUB、INT循环，供油时左边LUB绿灯亮，间歇时右边INT红灯亮。
5. ERO 闪烁时代表油量不足，ERP闪烁时代表压力异常。
6. 数显中框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)



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/cm²	最大压力 Max pressure kgf/cm²	容积 Volume	吐油量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm²	备注 Remarks
MRG-3202-500T	220V 50/60HZ	1350	25W	0. 22	20	35	5L	200~300 CC/min	30#稀油~00#油脂	MRG-3201代表 电压110V
MRG-3202-500X	220V 50/60HZ									MRG-3202代表 电压220V
MRG-3202-510X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，不带“A”为异步电机。

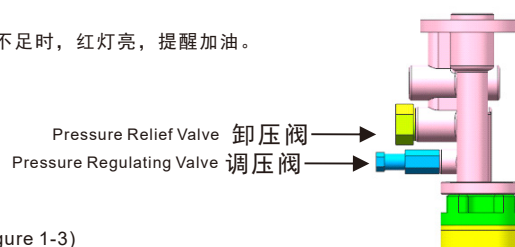
*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

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）
4. 可根据客户需求定制专属金属油箱。
(可根据客户需求定制专属润滑方案)

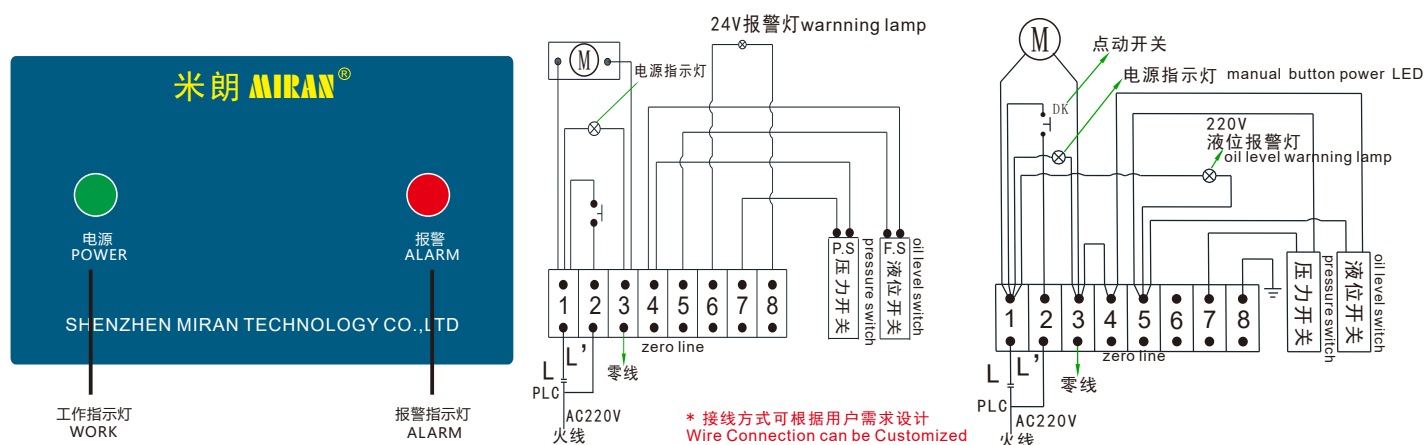
- 1.Oil supply and intermittent time are adjustable by PC controller.
- 2.With the out of oil 200~300CC/min, the oil tank capacity has 2, 3 and 4 litre, etc.
- There are oil level gauge and automatic oil control device on the oil tank.
The red light is on when the oil quantity is insufficient, which 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.

4. Metal oil tank can be customized.
(specific lubrication plan can be customized)



面板图 The control panel

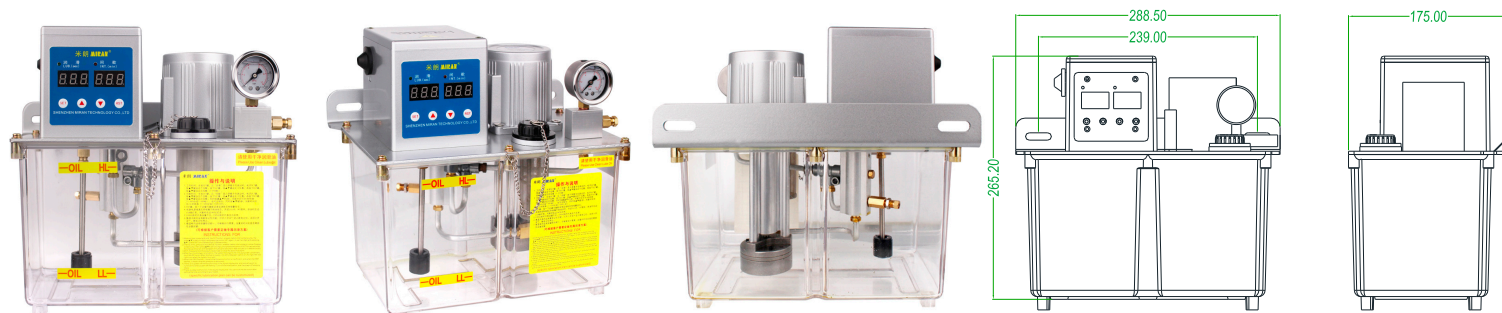
接线图The wiring diagram



MRG-3232(5L)

油脂稀油一体润滑油泵微电脑型

Self-control Grease and Thin Oil Lubrication Pump



技术参数 Technical Parameters

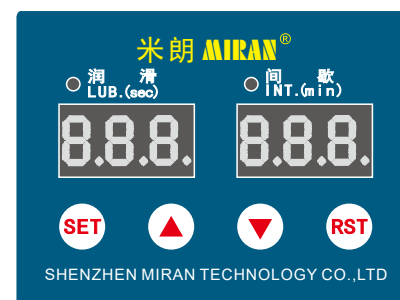
型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm²	最大压力 Max pressure kgf/cm²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm²	备注 Remarks
MRG-3232-500TB	220V 50/60HZ	1350	25W	0.22	20	35	5L	200~300 CC/min	30#稀油~00#油脂	MRG-2231代 表电压110V MRG-2232代 表电压220V
MRG-3232-500XB	220V 50/60HZ									
MRG-3232-510XB	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，不带“A”为异步电机

*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

使用方法 Method

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)

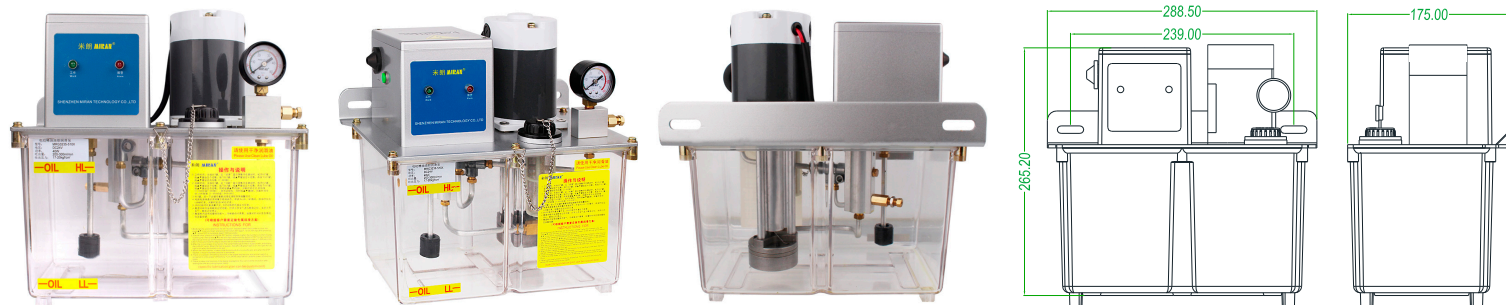


1. Working time: press and hold the SET button, release it when the numbers jump, then press ▲▼ to set unit digit; and press the button of SET again, to set ten digit with pressing ▲▼; press SET to hundreds digit(1~999 seconds).
2. Interval time: press and hold the SET button, release it when the numbers 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)

MRG-3205(5L)

油脂稀油一体电动润滑油泵微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	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-3205-500T	DC 24V	1800	40W	3.2	20	35	5L	200~300 CC/min	30#稀油~00#油脂	
MRG-3205-500X										
MRG-3205-510X										

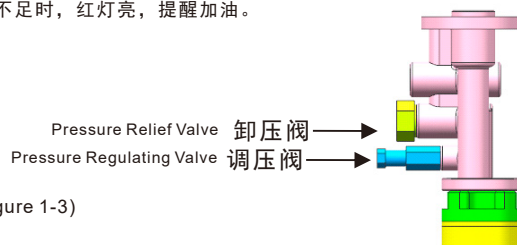
*型号带T为抵抗式，带X为容积式，不带“A”为异步电机

*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

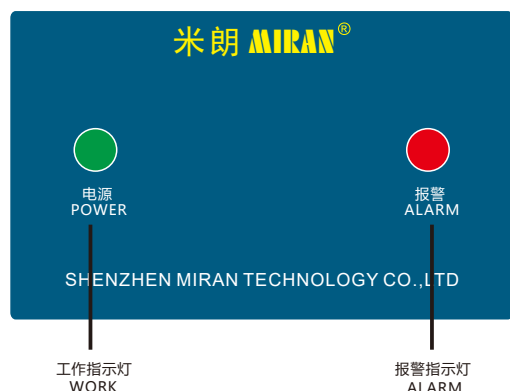
性能与特点 Performance Characteristics

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）
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)

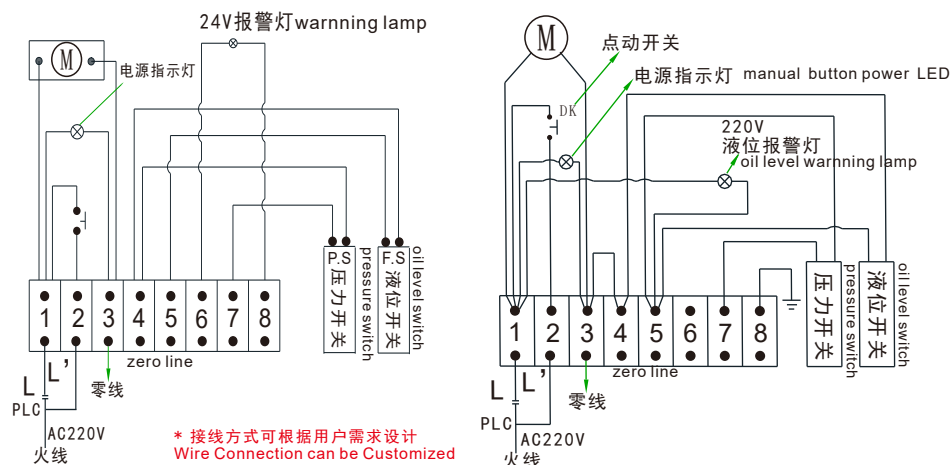
1. Oil supply and intermittent time are adjustable by PC controller.
2. With the out of oil 200~300CC/min, the oil tank capacity has 2, 3 and 4 litre, etc. There are oil level gauge and automatic oil control device on the oil tank. The red light is on when the oil quantity is insufficient, which reminds 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)



面板图 The control panel



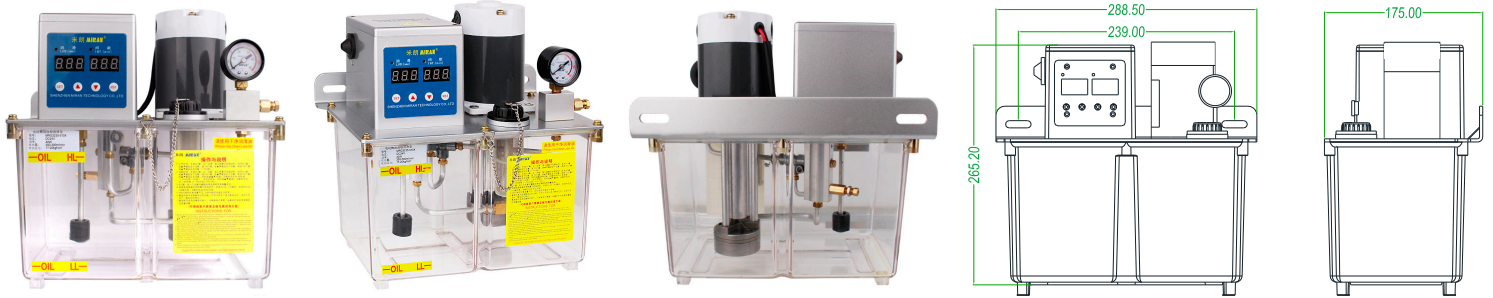
接线图 The wiring diagram



MRG-3235(5L)

油脂稀油一体电动润滑油泵微电脑型

Self-control Grease and Thin Oil Lubrication Pump



技术参数 Technical Parameters

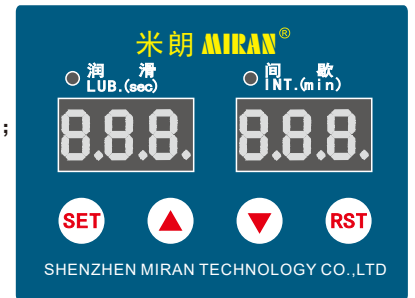
型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MRG-3235-500TB	DC 24V	1800	40W	3.2	20	35	5L	200~300 CC/min	30#稀油~00#油脂	
MRG-3235-500XB										
MRG-3235-510XB										

*型号带T为抵抗式，带X为容积式，不带“A”为异步电机

*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

使用方法 Method

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)

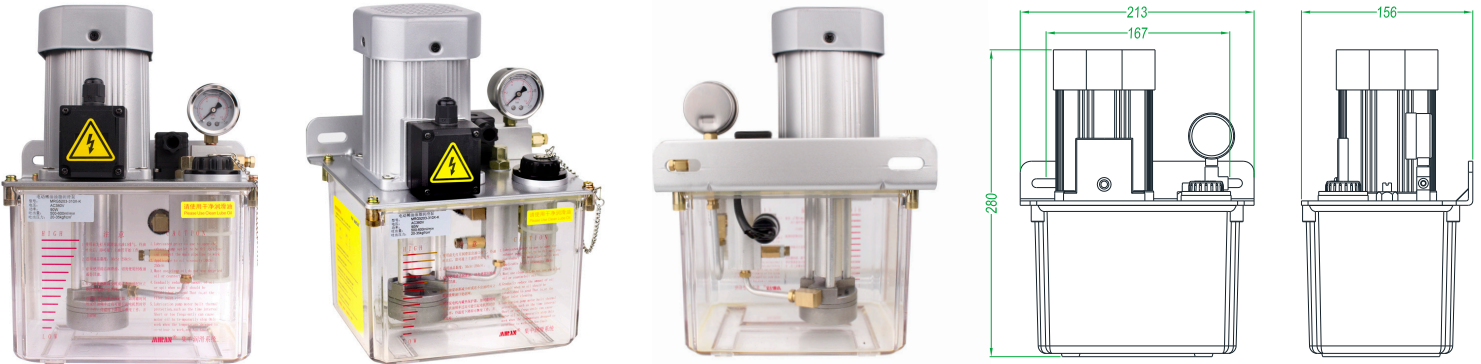


1. Working time: press and hold the SET button, release it when the numbers jump, then press ▲▼ to set unit digit; and press the button of SET again, to set ten digit with pressing ▲▼; press SET to hundreds digit(1~999 seconds).
2. Interval time: press and hold the SET button, release it when the numbers 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)

MRG-5202(3L)

油脂稀油一体润滑油泵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	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	60W: 220V	60W:0.45 90W:0.32	20	50	3L	300~500 CC/min	30#稀油~00#油脂	MRG-5202代表电压220V MRG-5203代表电压380V
MRG-5202-300X	220V 50/60HZ		90W: 380V							
MRG-5202-310X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，不带“A”为异步电机

*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

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-5202-41 (4L)

油脂稀油一体润滑油泵PLC型

下图为4L金属油箱，材质为铁或铝，另有6L、8L、10L等容积可选。

The picture showed as below is metal tank with 4L, the material is iron and aluminium, it has 6L, 8L and 10L can be chosen.

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	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-5202-4100T	220V 50/60HZ	2800	60W: 220V	60W:0.45 90W:0.32	20	60	4L	300~500 CC/min	30#稀油~00#油脂	MRG-5202 代表电压 220V
MRG-5202-4100X	220V 50/60HZ		90W: 380V							MRG-5203 代表电压 380V
MRG-5202-4110X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，不带“A”为异步电机

*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

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300~500CC/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）。
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)

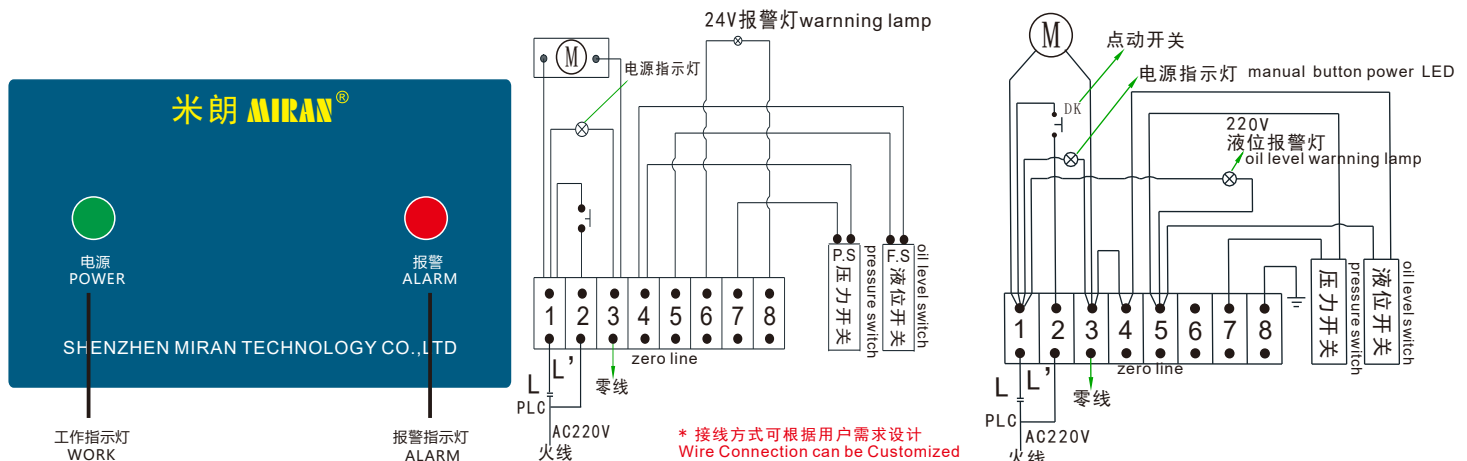
1. Oil supply and intermittent time are adjustable by PC controller.
2. With the out of oil 200~300CC/min, the oil tank capacity has 2, 3 and 4 litre, etc. There are oil level gauge and automatic oil control device on the oil tank. The oil quantity is insufficient when the red light is on, which reminds 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)



面板图 The control panel

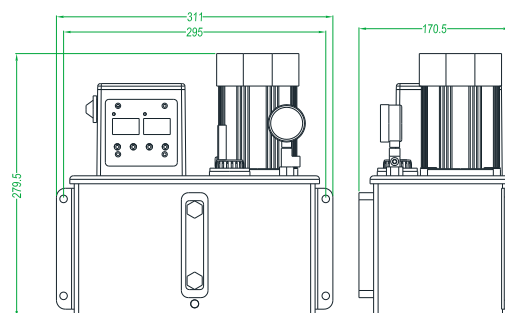
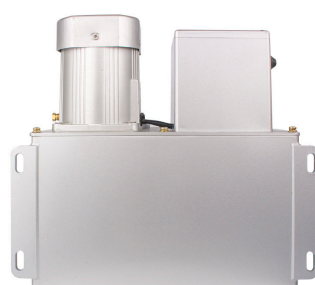
接线图 The wiring diagram



MRG-5232-41 (4L)

下图为4L金属油箱，材质为铁或铝，另有6L、8L、10L等容积可选。

The picture showed as below is metal tank with 4L, the material is iron and aluminium, it has 6L, 8L and 10L can be chosen.



油脂稀油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-5232-4100TB	220V 50/60HZ	2800	60W: 220V	60W:0.45 90W:0.32	20	50	4L	300~500 CC/min	30#稀油~00#油脂	MRG-5232 代表电压 220V
MRG-5232-4100XB	220V 50/60HZ		90W: 220V							MRG-5233 代表电压 380V
MRG-5232-4110XB	220V 50/60HZ		380V							

*型号带T为抵抗式，带X为容积式，不带“A”为异步电机

*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

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)

MRG-5232(5L)

油脂稀油一体润滑油泵微电脑型

Automatic Grease and Thin Oil Lubrication Pump



技术参数Technical Parameters

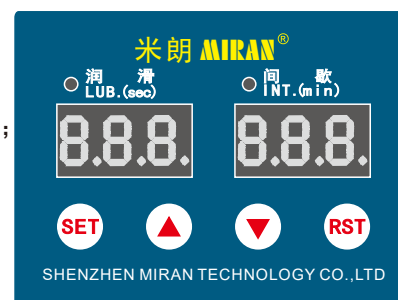
型号 Model	电压频率 Voltage	额定转速 Rated rotary Speed	功率 Power	电流 Current(A)	额定压力 Rated pressure kgf/cm ²	最大压力 Max pressure kgf/cm ²	容积 Volume	吐出量 Discharge capacity ml/min	使用油粘度 Rated pressure kgf/cm ²	备注 Remarks
MRG-5232-500TB	60W: 220V 90W: 380V	2800	60W: 220V	60W: 0.45 90W: 0.32	20	50	5L	300~500 CC/min	30#稀油~00#油脂	MRG-5233代表 电压380V MRG-5232代表 电压220V
MRG-5232-500XB			90W: 220V							
MRG-5232-510XB			380V							

*型号带T为抵抗式，带X为容积式，不带“A”为异步电机

*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

使用方法Method

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 to hundreds digit; simultaneously press ▲▼ for about 2 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(5L)

油脂稀油一体润滑油泵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	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-5202-500T	220V 50/60HZ	2800	60W: 220V	60W: 0.45 90W: 0.32	20	50	5L	300~500 CC/min	30#稀油~00#油脂	MRG-5203 代表电压380V MRG-5202 代表电压220V
MRG-5202-500X	220V 50/60HZ		90W: 380V							
MRG-5202-510X	220V 50/60HZ									

*型号带T为抵抗式，带X为容积式，不带“A”为异步电机

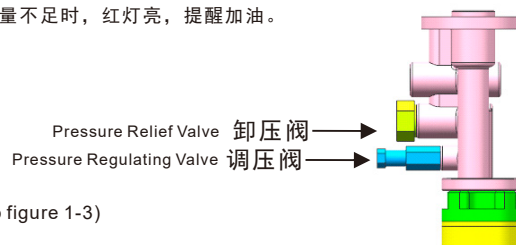
*Mode name with "T" is resistant, mode name with "X" is volumetric, without A is asynchronous motor

性能与特点 Performance Characteristics

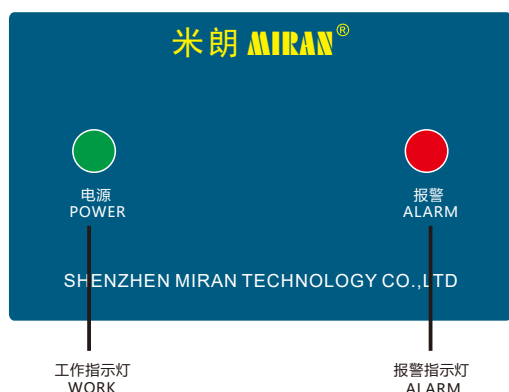
1. 供油和间歇时间同主机电脑控制设定
2. 油箱容量油2、3、4升等，吐出量300~500CC/min，油箱有目视油位计和自动控油装置，当油量不足时，红灯亮，提醒加油。
3. 油泵里面设两个阀（一个调压阀，一个卸压阀）。
4. 可根据客户需求定制专属金属油箱。
(可根据客户需要定做专属润滑方案)

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.

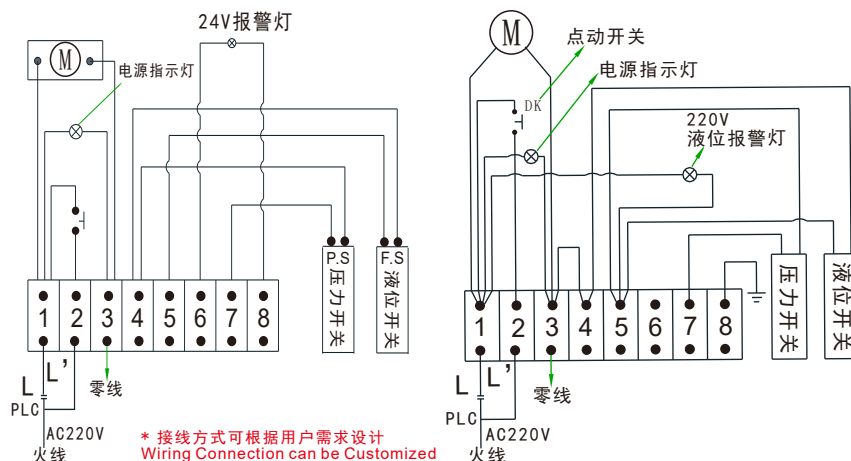
(specific lubrication plan can be customized)



面板图 The control panel



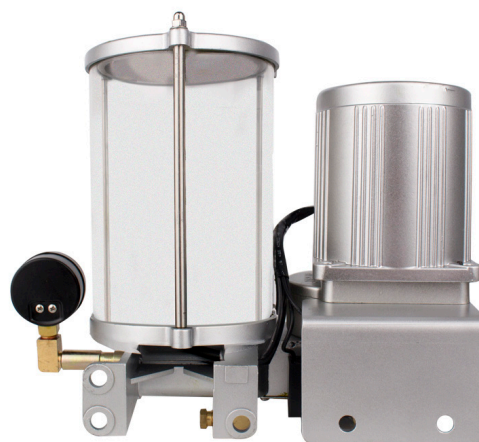
接线图 The wiring diagram



MRH-1202-100T

PLC半自动油脂泵

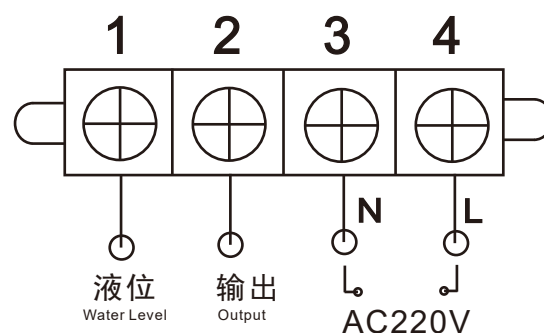
Semi-automatic Grease Lubrication Pump



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	110/ 220/380VAC
电机功率	Motor power	40W
润滑油粘度范围	Viscosity range	Variety 000#~00#
油箱容积	Reservoir	1/2/3/4L
出油口管道	Outlet pipe	Φ6mm
适用系统	Applicable system	抵抗式

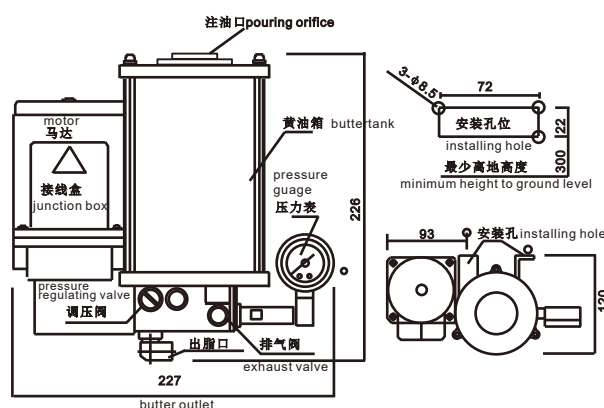
接线图 The wiring Diagram



性能与特点 Performance Characteristics

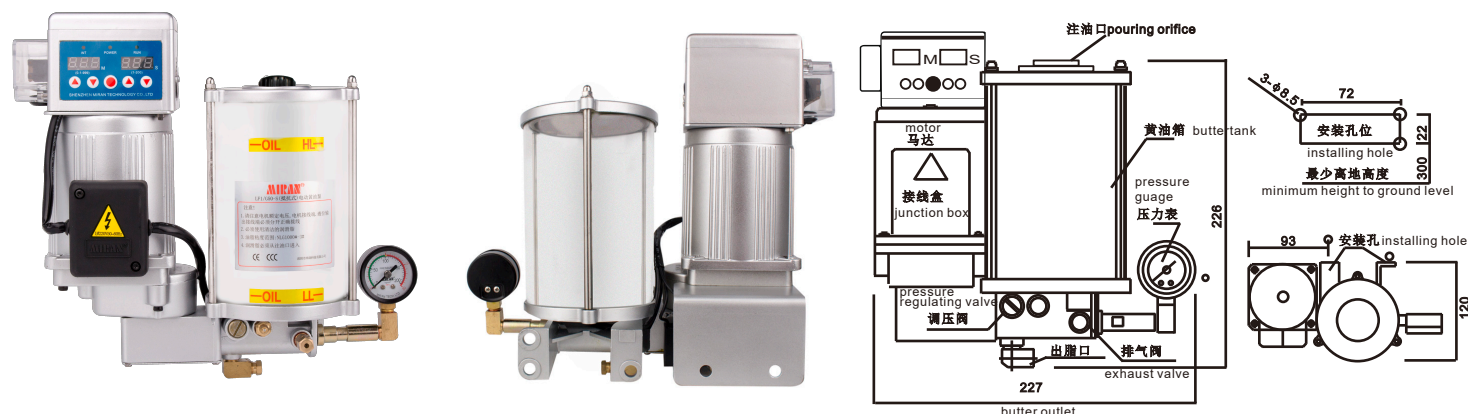
1. 供油和间歇时间同主机电脑控制设定。
2. 油箱容量有1/2/3/4L，吐出量50ml/min，视油箱有油位计。
3. 电动油脂泵是用交流电源驱动的润滑脂泵，它通过电机和机械传动将润滑脂不断输出，该泵可用于抵抗式分配器将润滑油脂注入所需润滑点；该泵体积小，输出流量大，广泛用于轻工/锻压自动化等机械设备的集中润滑系统中。

1. Oil supply and intermittent time is settled by host computer.
2. The fuel tank capacity is 1/2/3/4L, 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.



MRH-1232-100TB

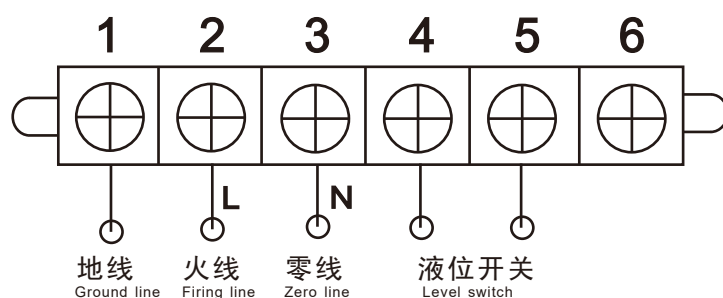
全自动油脂泵微电脑型 Automatical Grease Lubrication Pump



技术参数 Technical Parameters

操作方式	Operating mode	微电脑
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	110/ 220/380VAC
电机功率	Motor power	40W
润滑油粘度范围	Viscosity range	Variety 000#~00#
油箱容积	Reservoir	1/2/3/4L
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)

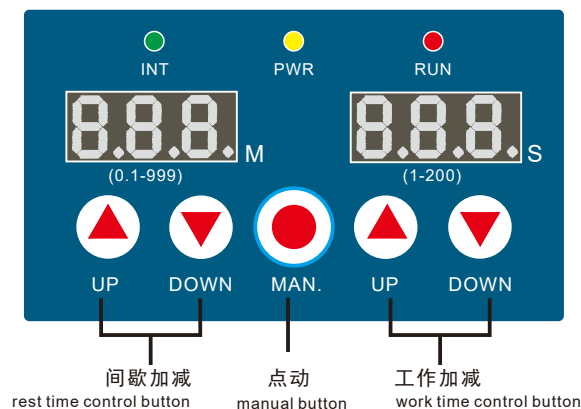
1. Fuel supply time is set by the UP button (extending the time) and DOWN button (shortening the time) on the right side of the control panel, which can reach up to 200 seconds, with the precision of 1 second. Intermittent time is set by the UP button (extending the time) and DOWN button (shortening 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)



MGH-1202-100T

PLC半自动黄油泵

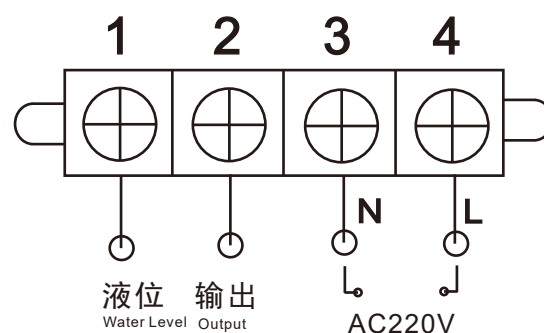
Semi-automatic Butter Lubrication Pump



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	110/ 220/380VAC
电机功率	Motor power	40W
润滑油粘度范围	Viscosity range	Variety 000#~3#
油箱容积	Reservoir	1/2/3/4L
出油口管道	Outlet pipe	Φ6mm
适用系统	Applicable system	抵抗式

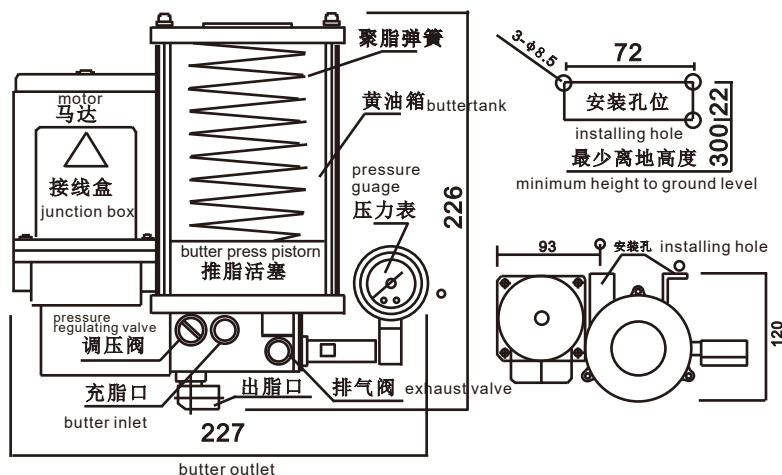
接线图The wiring diagram



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1/2/3/4L, 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。

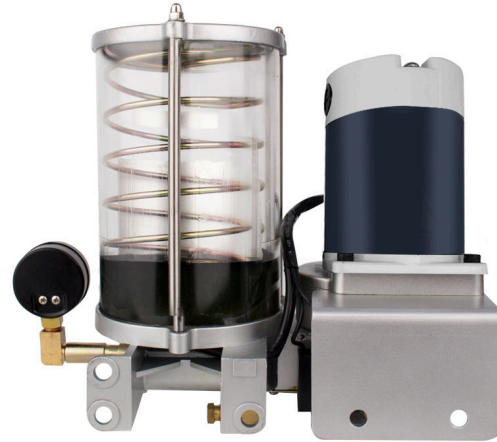
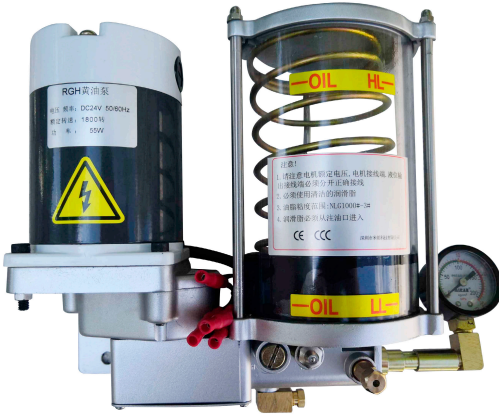
1. Oil supply and intermittent time is settled by host computer.
2. The fuel tank capacity is 1/2/3/4L, and the discharge amount is 50ml/min. The tank has an oil level gauge.
3. The electric oil pump is driven with AC power grease pump. The grease will output unceasingly through the motor and mechanical 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.



MGH-1205-100T

PLC半自动黄油泵

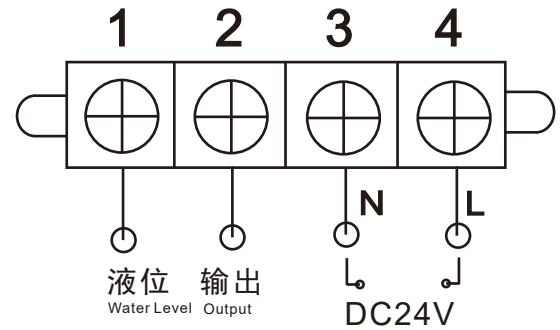
Semi-automatic Butter Lubrication Pump



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	DC24V 3.8A
电机功率	Motor power	55W
润滑油粘度范围	Viscosity range	Variety 000#~3#
油箱容积	Reservoir	1/2/3/4L
出油口管道	Outlet pipe	Φ6mm
适用系统	Applicable system	抵抗式

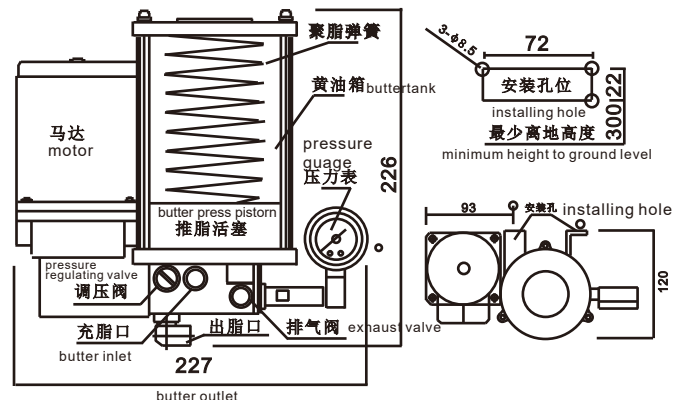
接线图 The wiring diagram



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1/2/3/4L, 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。

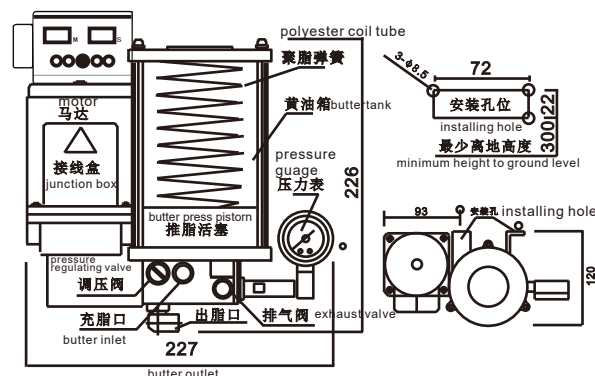
1. Oil supply and intermittent time is settled by host computer.
 2. The fuel tank capacity is 1/2/3/4L, and the discharge amount is 50ml/min. The tank has an oil level gauge.
 3. The electric oil pump is driven with AC power grease pump. The grease will output unceasingly through the motor and mechanical 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.



MGH-1232-100TB

全自动黄油泵微电脑型

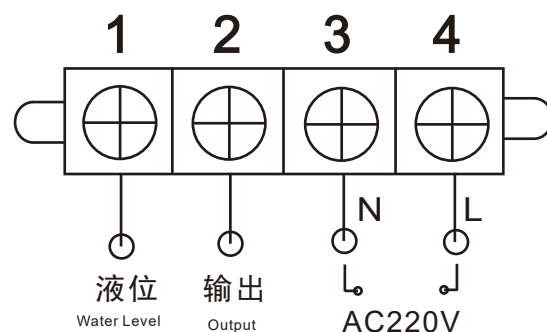
Self-control Butter Pump



技术参数 Technical Parameters

操作方式	Operating mode	微电脑
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	110/ 220/380VAC
电机功率	Motor power	40W
润滑油粘度范围	Viscosity range	Variety 000#~3#
油箱容积	Reservoir	1/2/3/4L
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）

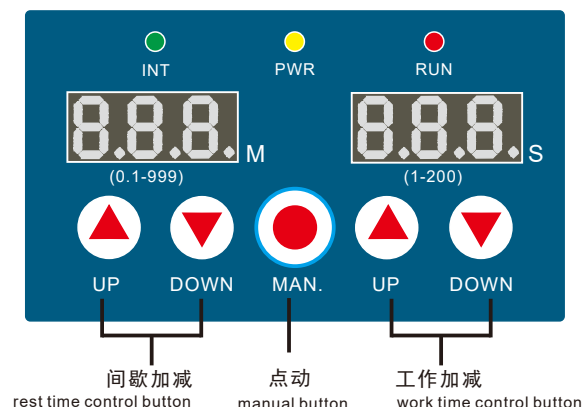
1. Fuel supply time is set by the UP button(extending the time) and DOWN button(shortening the time) on the right side of the control panel, which can reach up to 200 seconds, with the precision of 1 second. Intermittent time is set by the UP button(extending the time) and DOWN button(shortening the 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.

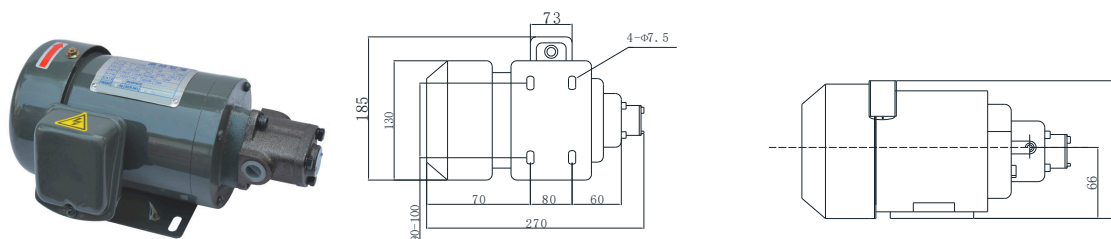
(specific lubrication plan can be customized)



摆线泵系列 (BMA series cycloidal pump)

马达泵

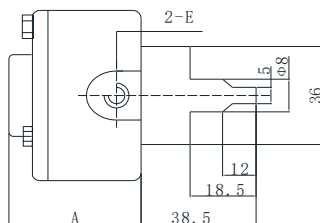
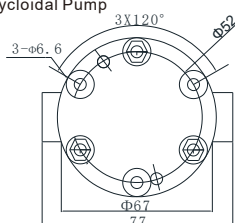
Motor pump



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 Bidirectional Cycloidal Pump

IRA给油泵浦 (可逆转式)
IRA Cycloidal Pump Accessory
(Reversible)



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。

双向摆线泵的进出口和出油口保持不变, 泵轴旋转方向可改变。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。

Function

The structure is simple, strong self-absorption, stable oil flow, low noise, good high speed characteristic, which is suitable for low pressure continuous lubrication in lubricating system.

The pump features:

The bidirectional cycloidal pump must be designed to ensure that the flow of oil is always in one direction, whether it is forward or reverse.

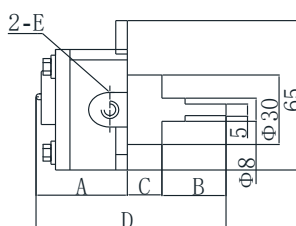
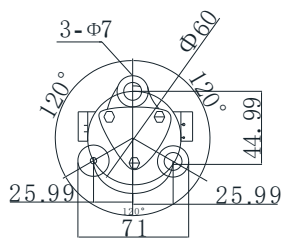
The inlet and outlet of the two-way cycloidal pump remain unchanged, and the direction of rotation of the pump shaft can be changed.

Suitable for general positive and reverse machinery. Such as: lathes, rotary milling machines, pharmaceutical machinery, grinding machines, various refrigeration machinery, milling machines, etc.

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

Cycloidal Pump Accessory



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。

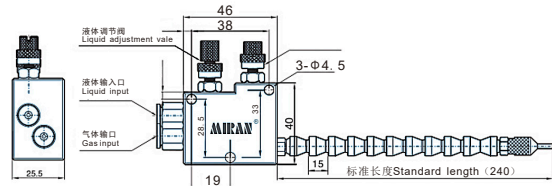
Function

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)								
T0P-10A	0.8	1.2	1.4	5	3000	PT1/8	40	10.5	8	58.5	0.5
T0P-11A	1.5	2.2	2.7	5	2000	PT1/8, PT 1/4	49	10.5	8	68	0.55
T0P-12A	2.5	3.7	4.5	5	1800	PT 1/4	56	11.5	8	76	0.6
T0P-13A	4.5	6.7	7.5	5	1800	PT 3/8	62	14	5	82	0.8

自吸式冷却润滑喷雾器（喷雾式润滑系统）

Cooling Lubrication Sprayer with Self-priming



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。

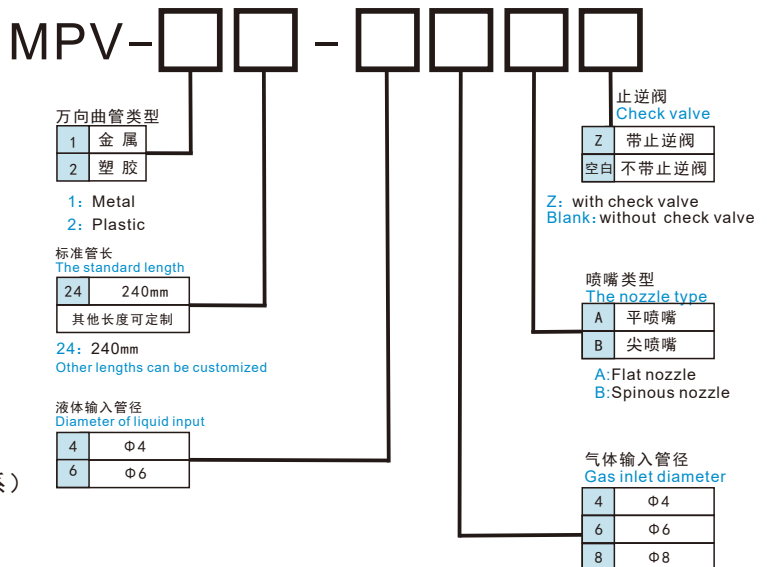
This product applies vacuum self-suction principle to make the liquid atomized by nozzle and air. Spray to the work-piece, tool bearing and other lubrication points. Good cooling effect, lubrication, Clean and other functions to improve production efficiency and quality, and reduce the loss of mechanical 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:

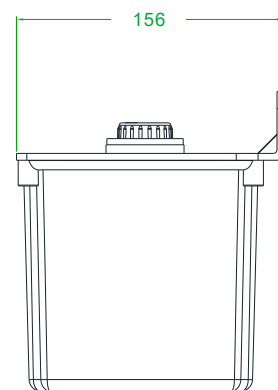
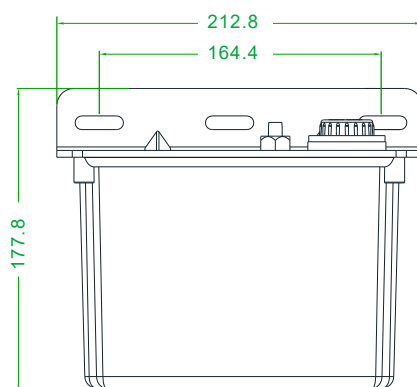
1. Use clean liquid.
2. Do not use corrosive liquid.
3. Air pressure range 0.5-0.7MPa. (atomization effect is related to air volume and air pressure)
4. Applicable liquid viscosity: 0-68cSt.

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.



MRQ-C油雾润滑系统 MRQ -C Cooling Lubrication Sprayer with Self-priming



型号选型 Model

MRQ - [] [] [] - [] [] []

控制器类型 Control types

A	数显Digital display
C	PLC

MPV 喷雾器个数 MPV the number of sprayer

1	1个 unit
2	2个 unit
3	3个 unit
4	4个 unit

油箱容积 Oil tank capacity

2	2L
3	3L
4	4L
5	5L

液位开关 Liquid Level Switch

空白 Blank	下通电 Lower power supply
D	上通电 Upper power supply
W	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 Switch

1	单相 110V SINGLE PHASE 110V
2	单相 220V SINGLE PHASE 220V
6	DC12V
5	DC24V

性能与特点

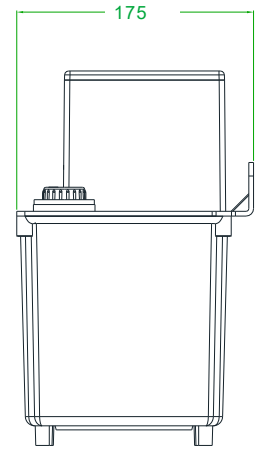
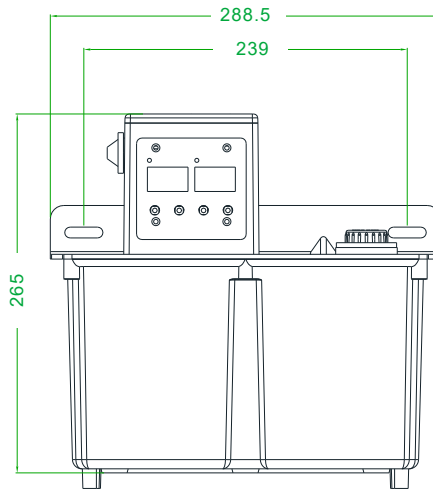
- 系统设有电磁阀可加装气动调压阀，对气源进行精确控制，与润滑液充分混合雾化，减少机械刀具之损耗，冷却润滑效果更佳。
- a.PLC控制：冷却润滑时间和间歇时间由外部PLC控制
- b.无控制：冷却润滑时间和间歇时间无需控制
- 当冷却润滑液不足时蜂鸣器会发出报警信号、并将异常信号输出到PLC系统。
- 系统建议使用气压为0.4-0.6MPa
- 默认液体和气管直径6mm
- 配合（MPV型）自吸式冷却润滑喷雾器使用。

Performance and characteristics

- the system is equipped with a solenoid valve that can be equipped with a pneumatic pressure regulating valve to precisely control the air source and fully atomize it with lubricating fluid to reduce the loss of mechanical tools and achieve better cooling and lubrication effect.
- a.PLC control: cooling and lubrication time and intermittent time are controlled by external PLC
- b. No control: no control is required for cooling and lubrication and intermittent time
- When the cooling lubricant is insufficient, the buzzer will send an alarm signal and output the abnormal signal to the PLC system.
- Air pressure of 0.4-0.6mpa is recommended for the system
- Default diameter of liquid and trachea is 6mm
- Suitable for use with (MPV) self-priming cooling and lubricating sprayer.

MRQ-A油雾润滑系统

MRQ Automatic Oil Mist Lubrication Pump



型号选型 Model

MRQ-□□□-□□□

控制器类型 Control types

A	数显Digital display
C	PLC

MPV 喷雾器个数 MPV Number sprayer

1	1个 Unit
2	2个 Unit
3	3个 Unit
4	4个 Unit

油箱容积 Oil tank volume

2	2L
3	3L
4	4L
5	5L

液位开关 Liquid Level Switch

空白 Blank	下通电 Lower power supply
D	上通电 Upper power supply
W	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 Switch

1	单相 110V SINGLE PHASE 110V
2	单相 220V SINGLE PHASE 220V
6	DC12V
5	DC24V

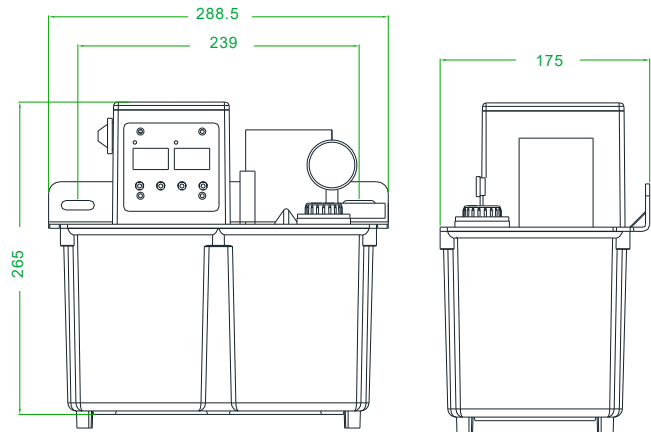
性能与特点

- 系统设有电磁阀可加装气动调节阀，对气源进行精确控制，与润滑油充分混合雾化，减少机械刀具之损耗，冷却润滑效果更佳。
- a. 数显控制：冷却润滑时间和间歇时间均可调整。（内般有锁键功能，可锁定设置后的润滑和间歇系统时间可设定，“LUB”润滑时：也设有断电记忆功能，如工作时间设定16秒工作到14秒断电了，下次通电可以继续按14秒开始计时 1-999（秒），“INT”间歇：1-999（秒）特殊要求可定制
- b. PLC控制：冷却润滑时间和间歇时间由外部PLC控制
- c. 无控制：冷却润滑时和间歇时间无需控制
- 设有液位开关、当冷却润滑油不足时蜂鸣器会发出报警信号、并将异常信号输出。（数显控制器液位不足显示ERO）。
- 面板指示灯可显示出润滑和间歇状态
- 系统建议使用气压为0.4-0.6MPa
- 默认液体和气管直径6mm
- 配合（MPV型）自吸式冷却润滑喷雾器使用。

Performance and Characteristics

- the system is equipped with a solenoid valve that can be equipped with a pneumatic pressure regulating valve to precisely control the air source and fully atomize it with lubricating fluid to reduce the loss of mechanical tools and achieve better cooling and lubrication effect.
- a. Digital display control: adjustable cooling and lubrication time and intermittent time. "LUB" lubrication: also has a power failure memory function, such as the working time set 16 seconds to 14 seconds of work, the next power can continue to press 14 seconds start timing 1-999 (seconds), "INT" intermittent: 1-999 (seconds) special requirements can be customized
- b. plc control: cooling and lubrication time and intermittent time are controlled by external PLC
- c. No control: no control is required for cooling and lubrication and intermittent time- with liquid level switch, the buzzer will send out alarm signal and output abnormal signal when the cooling lubricant is insufficient. Digital display controller liquid level is insufficient to show ERO.
- the indicator light on the panel can show lubrication and intermittent state
- air pressure of 0.4-0.6mpa is recommended for the system
- default diameter of liquid and trachea is 6mm
- suitable for use with (MPV) self-priming cooling and lubricating sprayer.

MYW-A油雾润滑系统 MYW-A Electrification Oil Mist Lubrication Pump



型号选型 Model

MYW — [] [] [] — [] [] []

控制器类型 Control types

A	数显Digital display
C	PLC

MPV 喷雾器个数 MPV 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

3	3L
4	4L
5	5L

液位开关 Liquid level switch

空白 Blank	下通电 Lower power supply
D	上通电 Upper power supply
W	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 Switch

1	单相 110V SINGLE PHASE 110V
2	单相 220V SINGLE PHASE 220V
5	DC24V

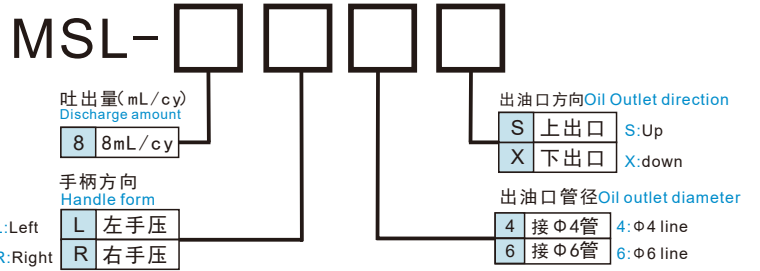
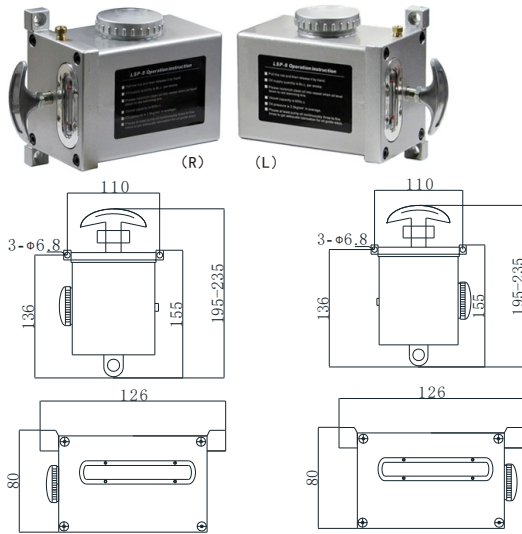
性能与特点

- 系统设有电磁阀可加装气动调压阀，对气源进行精确控制，与润滑油充分混合雾化，减少机械刀具之损耗，冷却润滑效果更佳。
- 主要由电动润滑油泵，油气可调混合器，气源二联件及气动元件组成，电磁阀与油泵供油时间同步，油泵可调混合器，每个润滑点的油量，气量微量可调。
- a. 数显控制：冷却润滑时间和间歇时间均可调整。（内设有锁键功能，可锁定设置后的润滑和间歇系统时间可设定，“LUB”润滑时：也设有断电记忆功能，如工作时间设定16秒工作到14秒断电了，下次通电可以继续按14秒开始计时 1-999（秒），“INT”间歇：1-999（秒）特殊要求可定制
- b. PLC控制：冷却润滑时间和间歇时间由外部PLC控制
- c. 无控制：冷却润滑时间和间歇时间无需控制
- 设有液位开关、当冷却润滑液不足时蜂鸣器会发出报警信号、并将异常信号输出。（数显控制器液位不足显示ERO）。
- 面板指示灯可显示出润滑和间歇状态
- 系统建议使用气压为0.4-0.6MPa
- 默认液体和气管直径6mm
- 配合（MPV型）自吸式冷却润滑喷雾器使用。

Performance and Characteristics

- the system is equipped with a solenoid valve that can be equipped with a pneumatic pressure regulating valve to precisely control the air source and fully atomize it with lubricating fluid to reduce the loss of mechanical tools and achieve better cooling and lubrication effect. It is mainly composed of electric lubricating oil pump, oil and gas adjustable mixer, air source two couplings and pneumatic components, electromagnetic valve and oil supply time of oil pump are synchronous, oil pump adjustable mixer, oil amount and gas amount of each lubricating point are adjustable in trace.
- a. Digital display control: adjustable cooling and lubrication time and intermittent time. "LUB" lubrication: also has a power failure memory function, such as the working time set 16 seconds to 14 seconds of work, the next power can continue to press 14 seconds start timing 1-999 (seconds), "INT" intermittent: 1-999 (seconds) special requirements can be customized
- b. plc control: cooling and lubrication time and intermittent time are controlled by external PLC
- c. No control: no control is required for cooling and lubrication and intermittent time
- with liquid level switch, the buzzer will send out alarm signal and output abnormal signal when the cooling lubricant is insufficient. Digital display controller liquid level is insufficient to show ERO.
- the indicator light on the panel can show lubrication and intermittent state
- air pressure of 0.4-0.6mpa is recommended for the system
- default diameter of liquid and trachea is 6mm
- suitable for use with (MPV) self-priming cooling and lubricating sprayer.

MSL 型手拉式稀油润滑油泵 MSL Manual Pull Lubricating Oil Pump



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。

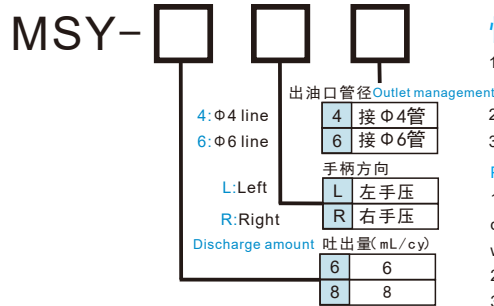
Performance and features:

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 Model and technical parameters

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
MSL-8L	0.5MPa	8cc/cy	φ4 or φ6	左手压 Left	600cc	向上或者向下 Up or down	0.9kg
MSL-8R				右手压 Right			

MSY 型手摇式稀油润滑油泵 MSY Oil Lubrication Pump with Hand Shake



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。

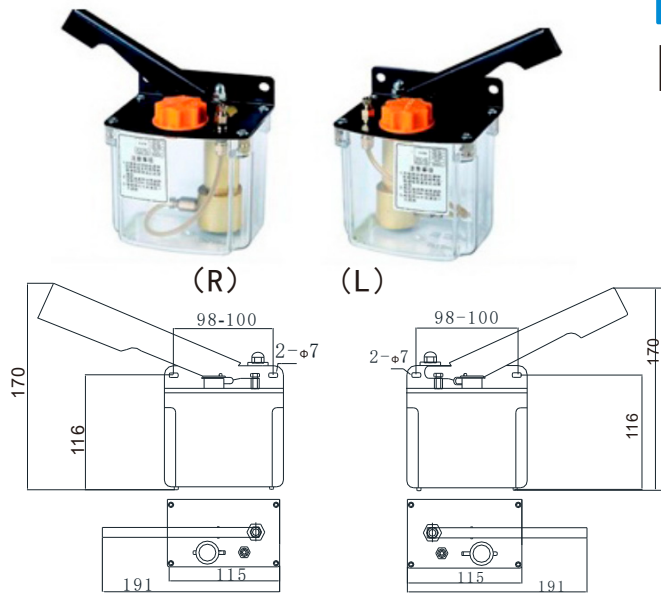
Performance and features:

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 Model and technical parameters

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
MSY-6	1.5MPa	6ml/cy	φ4 or φ6	左或右 Left or Right	600ml	向上或者向下 Up or down	1.2kg
MSY-8					800ml		1.4kg

MYK 型手压式稀油润滑油泵 MYK Oil Lubrication Pump with Hand Press



型号选型 Model

MYK-

出油口管径 Oil outlet diameter

4	接 Φ4 管	4: Φ4 line
6	接 Φ6 管	6: Φ6 line

手柄方向 Handle direction

L	左手压	L: Left
R	右手压	R: Right

吐出量 (mL/cy) Discharge amount (mL/cy)

5	3-5	5: 3-5
---	-----	--------

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腔内的油排出。
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。

Performance and features:

1. The oil pump is a piston pump. When the handle is pressed down, the oil will be sucked into the piston cavity. When the handle is reset, the oil will be pushed out of the piston cavity under the action of the spring force.
2. The pump can be combined with the resistance distributor to form a centralized lubrication system, which is suitable for various lubrication equipment within length in 5 meters, height in 3 meters and 15 lubrication points.

规格型号及技术参数

Model and technical parameters

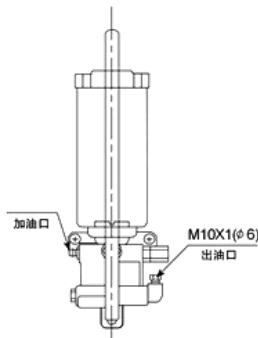
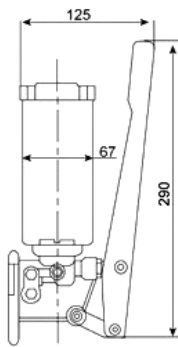
型号规格 Specifications	最大吐出压力 Maximum discharge pressure	吐出量 Discharge amount	出油口管径 Outlet management	手柄形式 Handle form	出油口方向 Outlet direction	重量 weight
MYK-5L	0.4MPa	3-5cc/cy 油量可调 Oil is adjustable	Φ4 or Φ6	左手压 Left	500cc	0.7kg
MYK-5R				右手压 Right		

MYG 型手摇式油脂润滑油泵 (000#~00#)

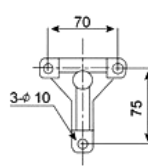
MYG Grease Lubrication Pump with Hand Shake

型号选型 Model

MYG-



Installation diagram
安装图



空白	不带卸压	Blank: without pressure relief valve
X	带卸压	X: with pressure relief valve

油箱容量 (mL)
Tank capacity (mL)

03	300
05	500
08	800

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。

Performance and features:

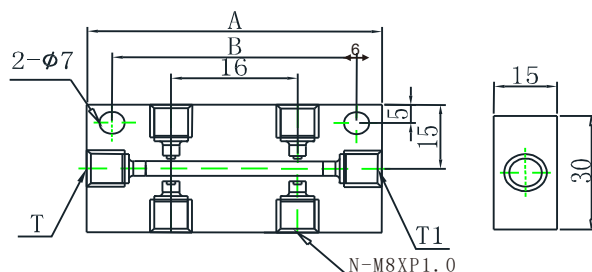
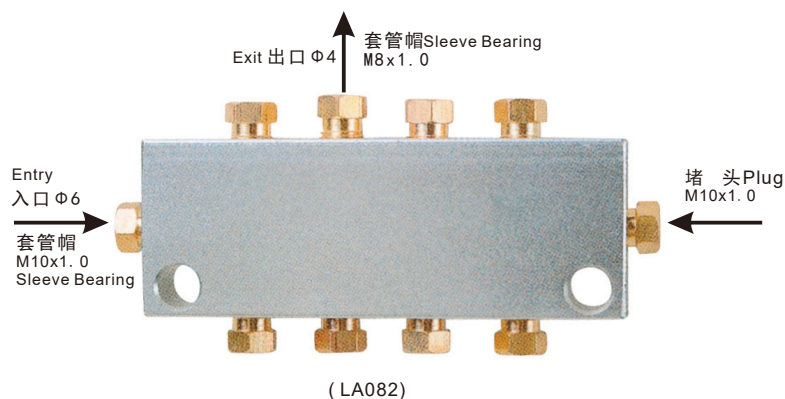
1. Plunger Volumetric pump, resin tank.
2. Manual operation, simple and convenient to use.
3. Transparent resin oil tank for easy observation of oil level.
4. The oil feed agent can be supplied directly to the lubrication point. It can be used with adjustable distributor or single side distributor.

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	吐出数 Discharge number	油箱容量 Fuel tank capacity	出油口方向 Outlet direction	形式 System
MYG-03	100kgf/cm ²	2ml/cy	Φ4/Φ6	1-3个	300ml	向上或者向下 Up or down	抵抗式
MYG-05					500ml		
MYG-08					800ml		

润滑系统分配器 Oil Lubrication System Distributor

LA分配器 LA Distributor

尺寸图 Dimension Diagram



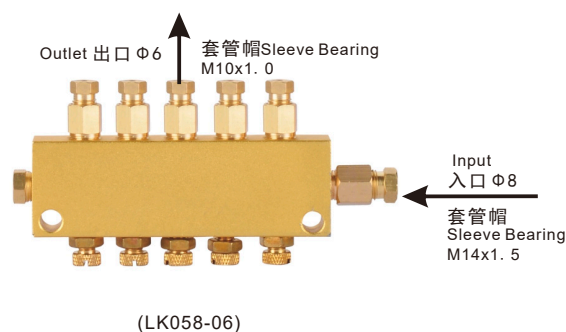
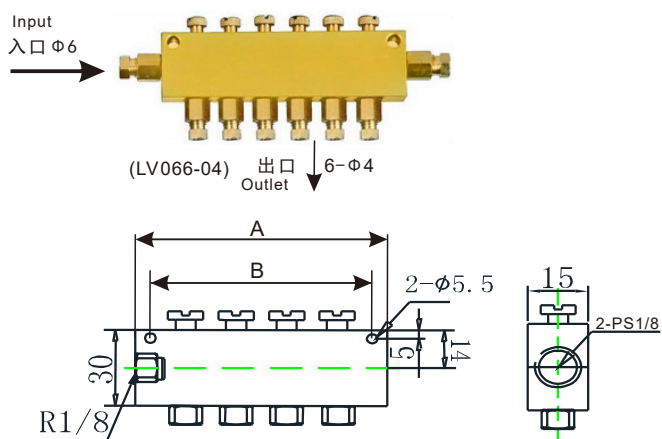
型号 Model	主管/支管直径 Main/Branch pipe diameter	出口数 Outlet	A	B	备注 Note
LA041 LA042 LA043	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	4	48	36	双边可根据客户所需孔位定做 The hole can be customized
LA061 LA062 LA063	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	6	64	52	
LA081 LA082 LA083	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	8	80	68	
LA101 LA102 LA103	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	10	96	84	
LA121 LA122 LA123	Φ4/Φ4 Φ6/Φ4 Φ6/Φ6	12	112	99	

LV可调配器

LV Adjustable Distributor

LK带锁止抗震可调配器

LK with lock shock-proof and adjustable distributor



LV可调分配器 LK带锁可调分配器

LV adjustable and LK lock adjustable quantitative pressure distributor

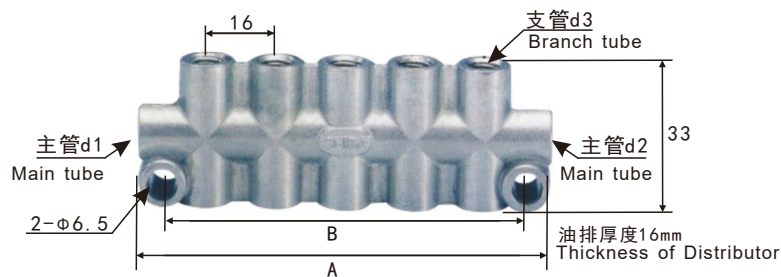
型号 Model	入口口径 Input Dimension	出口口径 outlet Dimension	出口数 Outlet number	A	B
LV024-04 LV026-04 LV026-06 LV028-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	2	47	37
LV034-04 LV036-04 LV036-06 LV038-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	3	62	52
LV044-04 LV046-04 LV046-06 LV048-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	4	77	67
LV054-04 LV056-04 LV056-06 LV058-06	Φ4 Φ6 Φ6 Φ8	Φ4 Φ4 Φ6 Φ6	5	92	82
LV066-04 LV066-06 LV068-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	6	107	97
LV076-04 LV076-06 LV078-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	7	122	112
LV086-04 LV086-06 LV088-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	8	137	127
LV096-04 LV096-06 LV098-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	9	152	142
LV106-04 LV106-06 LV108-06	Φ6 Φ6 Φ8	Φ4 Φ6 Φ6	10	167	157

备注：LK所有规格和尺寸参数与LV相同。可调油排可根据客户所需孔位定做。

Attention: the parameter between LK and LV is same, the outlet about the distributor can be customized

LE 双边分配器 (铝合金) LE two-way coupling Distributer(aluminum alloy)

标准外形尺寸图
standard Dimension Diagram

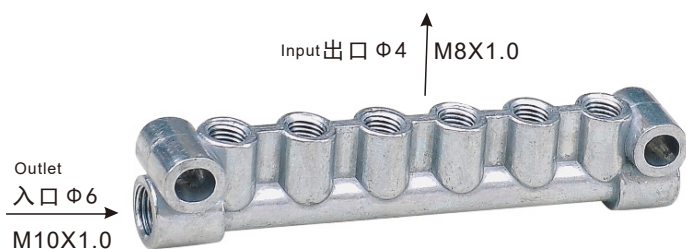


型号 Model	d1=d2	d3	出口口数量 Outlet number	A	B
LE-6-8-8	M8X1	M8X1	4	36	48
LE-6-10-10	M10X1	M8X1	4	36	48
LE-8-8-8	M8X1	M8X1	6	52	64
LE-8-10-10	M10X1	M8X1	6	52	64
LE-10-8-8	M8X1	M8X1	8	68	80
LE-10-10-10	M10X1	M8X1	8	68	80
LE-12-8-8	M8X1	M8X1	10	84	96
LE-12-10-10	M10X1	M8X1	10	84	96

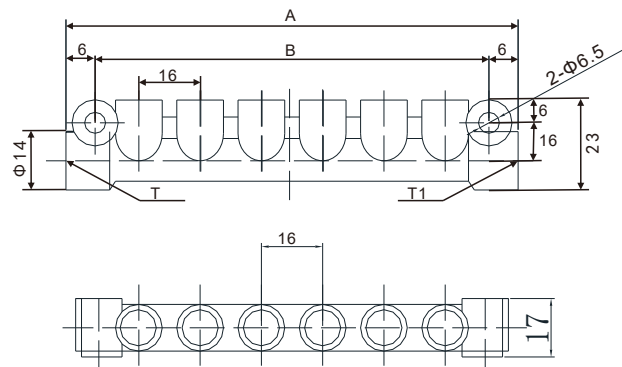
润滑系统分配器 Oil Lubrication System Distributor

LB 分配器 LB Distributor

尺寸图 Dimension Diagram



(LB083)

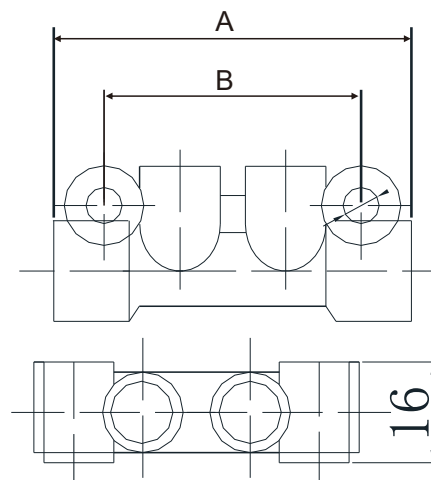
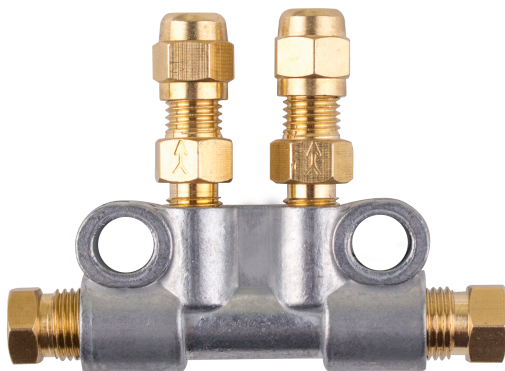


型号Model	T/T1	出口口径 Outlet Dimension	出口数 Outlet number	A	B
LB041 LB042 LB043 LB044	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	2-04 2-06	2	48	35~36
LB051 LB052 LB053 LB054	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	3-04 3-06	3	64	51~52
LB061 LB062 LB063 LB064	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	4-04 4-06	4	80	68
LB071 LB072 LB073 LB074	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	5-04 5-06	5	96	84
LB081 LB082 LB083 LB084	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	6-04 6-06	6	112	96~100
LB091 LB092 LB093 LB094	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	7-04 7-06	7	128	116
LB101 LB102 LB103 LB104	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	8-04 8-06	8	144	132
LB121 LB122 LB123 LB124	Φ4/Φ4 Φ4/Φ6 Φ6/Φ6 Φ6/Φ6	10-04 10-06	10	176	164

润滑系统分配器 Oil Lubrication System Distributor

LBM限流分配器 LBM Current Limiting Distributor

尺寸图 Dimension Diagram



抵抗式分配器包含LB/MV/MK型等系列分配器，其中LBM型分配器由LB分配器和计量件DPM等组合而成。

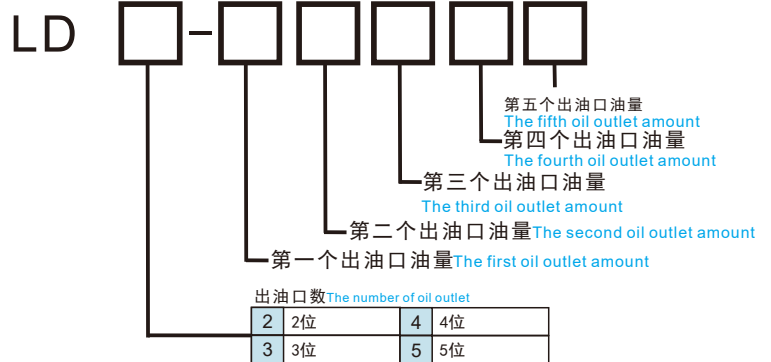
Resistance distributor includes LB/MV/MK and other series distributors, among which LBM distributor is composed of LB distributor and measuring parts DPM.

型号Model	T/T1	出口口径 Outlet Dimension	出口数 Outlet number	A	B
LBM041 LBM042	$\Phi 4/\Phi 4$ $\Phi 4/\Phi 6$	2-04	4	48	35~36
LBM051 LBM052	$\Phi 4/\Phi 4$ $\Phi 4/\Phi 6$	3-04	5	64	51~52
LBM061 LBM062	$\Phi 4/\Phi 4$ $\Phi 4/\Phi 6$	4-04	6	80	68
LBM071 LBM072	$\Phi 4/\Phi 4$ $\Phi 4/\Phi 6$	5-04	7	96	84
LBM081 LBM082	$\Phi 4/\Phi 4$ $\Phi 4/\Phi 6$	6-04	8	112	96~100
LBM091 LBM092	$\Phi 4/\Phi 4$ $\Phi 4/\Phi 6$	7-04	9	128	116
LBM101 LBM102	$\Phi 4/\Phi 4$ $\Phi 4/\Phi 6$	8-04	10	144	132
LBM121 LBM122	$\Phi 4/\Phi 4$ $\Phi 4/\Phi 6$	10-04	12	176	164

LD定量脱压式稀油分配器/定量容积式稀油分配器

LD Quantitative Deoiling Thin Oil Distributor / Volumetric Thin Oil Distributor

型号说明Model Instruction



注：如没有特殊要求，出口口油量默认为3，代表0.3mL每次。
Attention: if there isn't any other requirement, the standard oil is 0.3ml for one time

技术参数Technical parameters

型号Model	出口数Outlet number	A	B	吐油量Discharge amount
LD2	2	53	39	0.1;0.2; 0.3;0.4; 0.5;(ml/cy)
LD3	3	65	54	
LD4	4	84	70	
LD5	5	103	88	

*油量表示方法:

(注：当所有出口口油量值一样时，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出口口油量全部为0.2ml每次。

例2:LD5-53235表示为5位分配器，第1,2,3,4,5出口口油量分别为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:

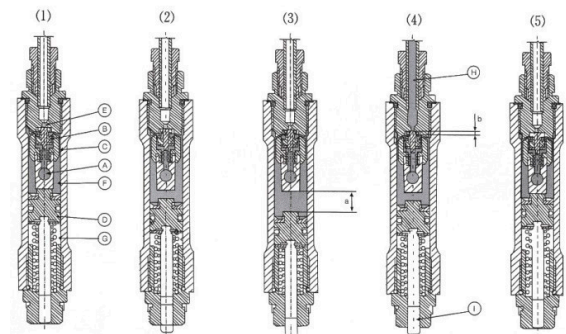
(note: when the oil value is the same, only one oil value is used)

Example 1: LD5-2 indicates LD model 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.

工作原理Operating principle



(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。

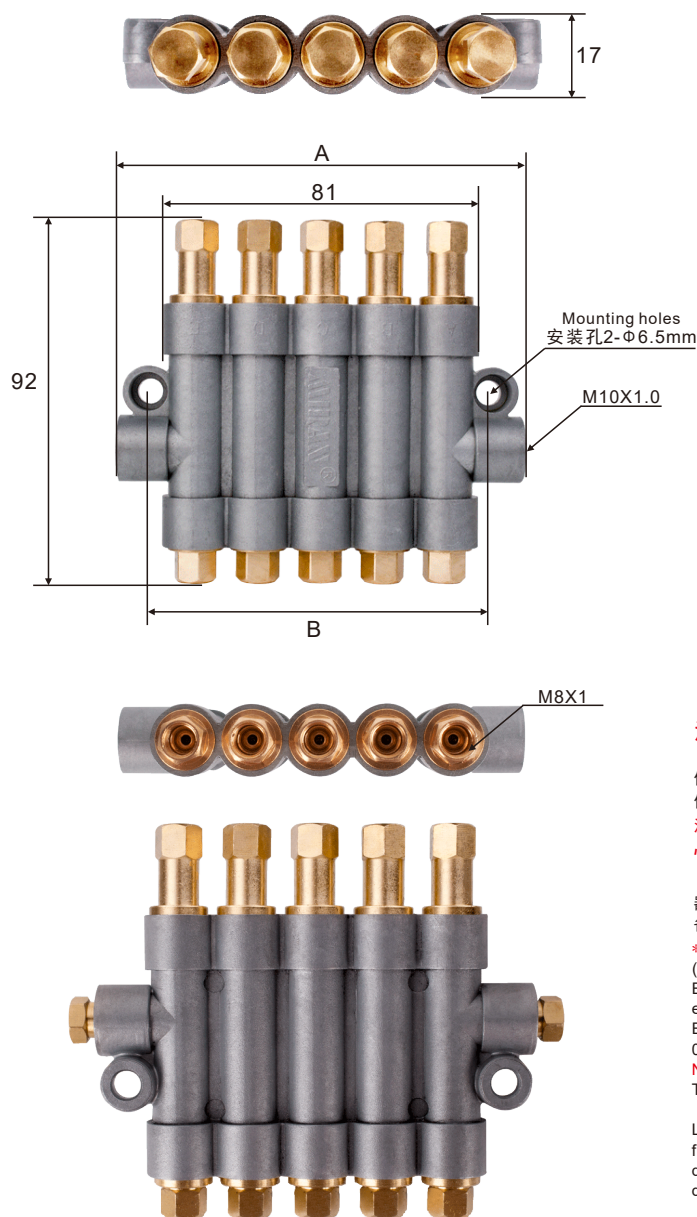
A: metering piston action schedule B: the action trip of the umbrella type two-way valve is shown in the figure above. The oil from the lubrication pump is injected from the director A, and the umbrella-type two-way valve B is pushed open. Push the piston chamber to F through the channel C. The piston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

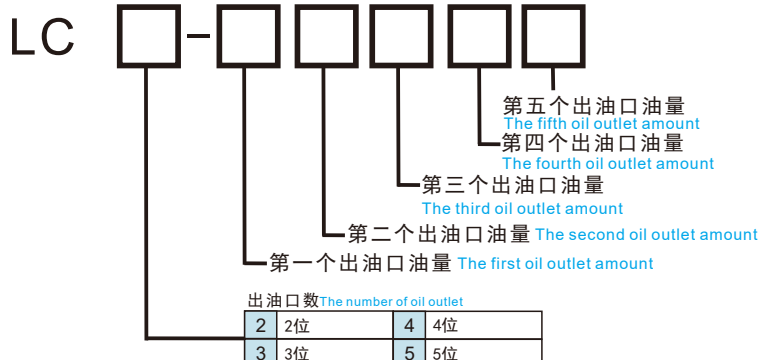
The oil is transported to the lubrication point by outlet E to the pipe H, and the signal pin I is prominent when measuring the oil storage. When the oil is supplied to the lubrication point, it is retracted to confirm the completion of the distribution.

LC定量脱压式全封闭稀油分配器/定量全封闭容积式稀油分配器

LC Quantitative Decompression fully enclosed thin oil distributor / quantitative fully enclosed volumetric thin oil distributor



型号说明 Model Instruction



注：如没有特殊要求，出油口油量默认为3，代表0.3mL每次。
 Attention: if there isn't any other requirement, the standard oil is 0.3ml for one time

技术参数 Technical parameters

型号 Model	出口数 Outlet number	A	B	吐油量 Discharge amount
LC2	2	53	39	0.1; 0.2; 0.3; 0.4; 0.5; (ml/cy)
LC3	3	65	54	
LC4	4	84	70	
LC5	5	103	88	

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: LC5-2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: LC5-53235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。

性能与特点:

LC全封闭定量分配器有效解决灰尘、铁渣、木屑、切削液等杂物进入分配器内部而减少分配器寿命。全封闭定量分配器有效解决了以上存在问题，增强了分配器使用寿命更能充分的润滑设备，使设备更加健康。

* oil quantity representation method:

(note: when the oil value is the same, only one oil value is used)
 Example 1: LC5-2 indicates LC model and the amount of 1 and 2 oil outlet in 2 allocator is 0.3ml each time.
 Example 2: LC5-53235 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.

LC fully enclosed quantitative distributor effectively solves the dirt, iron slag, wood chips, cutting fluid and other debris into the distributor causing reduce the life of the distributor. The fully closed quantitative distributor can effectively solve above problems and enhance the service life of the distributor so that it can lubricate the equipment adequately and make the equipment better using.

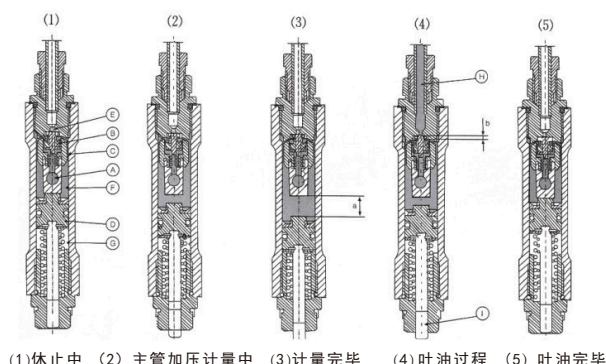
工作原理: A: 计量活塞动作行程 B: 伞形双向阀动作行程见上图, 从润滑泵压送的油从主管A注入, 并将伞形双向阀B向推开流入, 通过通路C压送活塞室到F内。受压力油作用下计量活塞向下动作弹簧G被压缩蓄油, 从而进行计量蓄油, 当主管A内油压被释放(即卸压), 伞形阀B因压力差而动作, 同时开启吐出口E, 于是活室内计量蓄油通过吐出口E送入油管H而将油输送到润滑点, 信号销I当计量蓄油时突出。而供油给润滑点时缩回, 从而确认分配动作完成情况。

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.

工作原理 Operating principle



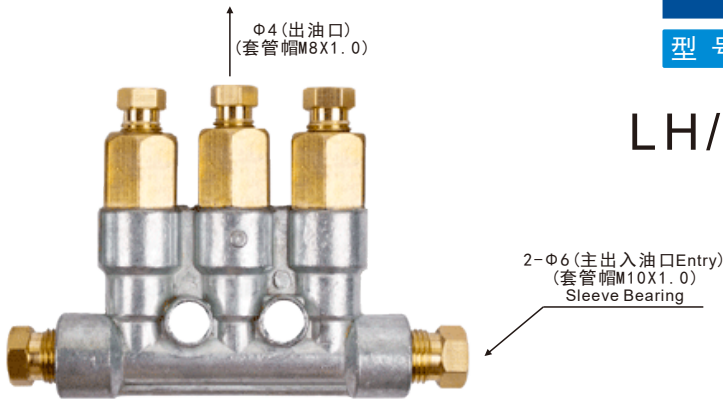
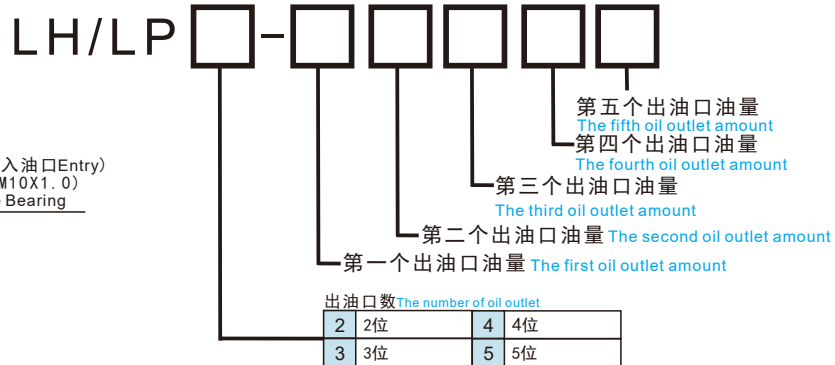
(1) 休止中 (2) 主管加压计量中 (3) 计量完毕 (4) 吐油过程 (5) 吐油完毕

LH/LP定量油脂加压式分配器

LH/LE grease ration pressurized distributor

型号说明 Model Instruction

型号选型 Model



(LH3)

油量表示方法 Oil quantity representation method

*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: LH3-2表示为3位分配器, 第1, 2, 3出油口油量全部为0.2ml每次。

例2: LH5-53235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: LD3-2 indicates LD model 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 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.

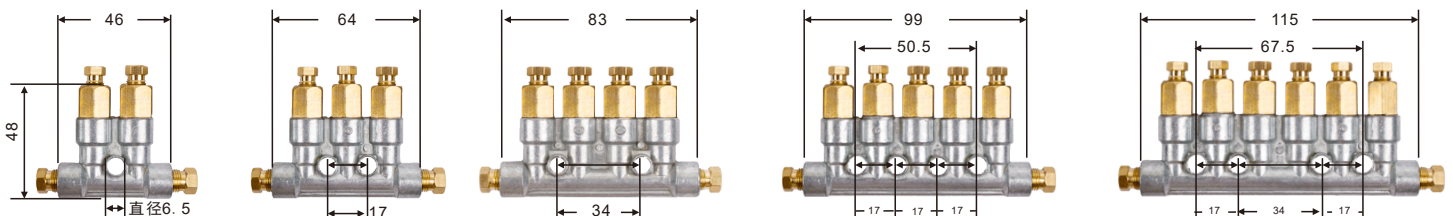
技术参数 Technical parameters

型号 Model	工作压力 (MPa) Pressure	出口数 Outletnumber	吐出量 (ml/cy) Discharge amount
A型			
LH2	≥1.6	2	0.1;0.2; 0.3;0.4; 0.5;
LH3		3	
LH4		4	
LH5		5	
LH6		6	
B型			
LP3	≥1.6	3	0.1;0.2;0.3;0.4;0.5;
LP5		5	可根据用户定做 The size of the distributor also can be customized

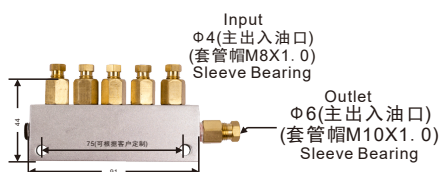
注: LP具体参数请参照LH. The specific parameters is same as LH

产品尺寸图 Dimension

A 型 (LH):



B 型 (LP):



可根据用户需求定制B型加压式分配器的长度:

出油孔位如: 2位、3位、10位、15位等

分配器的安装尺寸也可根据用户定做

Length of type B pressurized distributor can be customized

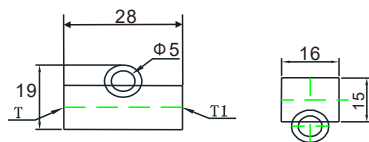
according to customer's requirements:

Oil outlet holes: 2, 3, 10, 15, etc

* 该尺寸为手工测量, 误差在1mm内。* this dimension is measured manually with an error of 1mm.

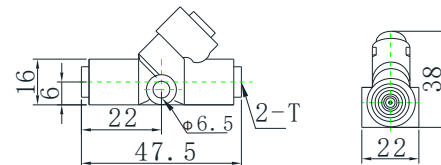
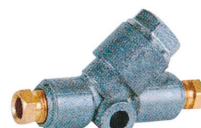
润滑附件 Lubrication Accessories

固定双接头Fixed double joint



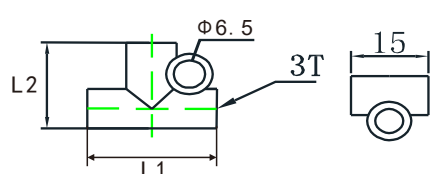
型号 Model	管径 Diameter	T	T1	重量(g) Weight
MJ0808	Φ4xΦ4	M8x1	M8x1	23
MJ0810	Φ4xΦ6	M8x1	M10x1	22
MJ1010	Φ6xΦ6	M10x1	M10x1	20

过滤双接头Filter double joint



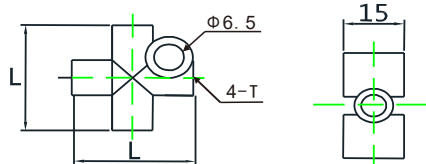
型号Model	MPJ04	MPJ04
规格Specification	Φ4-Φ4	Φ6-Φ6
T	M8X1	M10X1
过滤精度(μ) Filtration accuracy	20	
使用范围Range of application	抵抗式润滑油系统Resistant Lubrication System	
压力Pressure (kgf/cm ²)	25	
最大流量Maximum flow (L/min)	1	
用油粘度Oil viscosity (cSt)	30-250	

三通管/三通接头Tee pipe/Tee joint



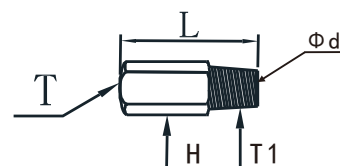
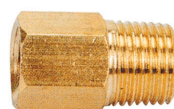
型号 Model	管径 Diameter	T	L1	L2	重量(g) Weight
MKD04	Φ4	M8x1	28	19.5	15
MKD06	Φ6	M10x1	30	22	26

四通管/四通接头Four-way pipe/Four-way joint



型号 Model	管径 Dimension	T	T1	重量(g) Weight
MJD04	Φ4	M8x1	28	19.5
MJD06	Φ6	M10x1	30	22

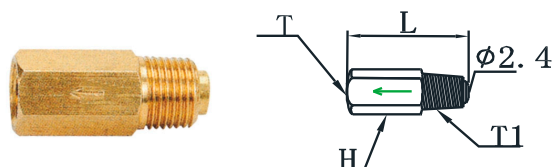
直通接头Through Joint



型号 Model	管径 Diameter	Φd	L	T	T1	H	重量(g) Weight
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

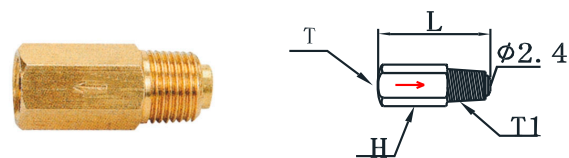
润滑附件 Lubrication Accessories

单向直接头 Unidirectional direct joint



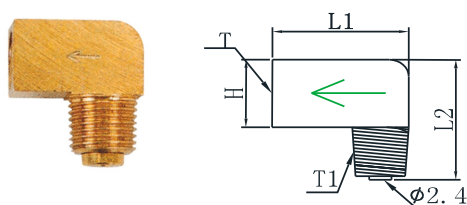
型号 Model	管径 Diameter	L	T	T1	H	重量(g) Weight
MD0418A	Φ4	26	M8x1	PT1/8	10	11
MD0618A	Φ6	26	M10x1	PT1/8	12	14

反向直接头 Reverse direct joint



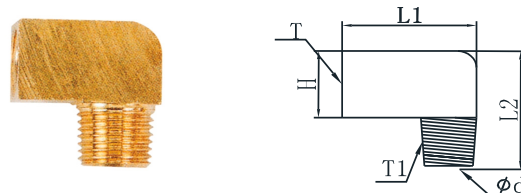
型号 Model	管径 Diameter	L	T	T1	H	重量(g) Weight
MD0418B	Φ4	26	M8x1	PT1/8	10	11
MD0618B	Φ6	26	M10x1	PT1/8	12	14

单向直角接头 Unidirectional right Angle joint



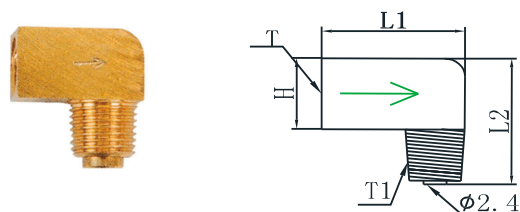
型号 Model	管径 Diameter	L1	L2	T	T1	H	重量(g) Weight
MH0418A	Φ4	18	20	M8X1	R1/8	14	14
MH0618A	Φ6	20	22	M10X1	R1/8	21	21

直角接头 Right Angle connector



型号Model	管径 Diameter	ΦD	L1	L2	T	T1	H	重量(g) Weight
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

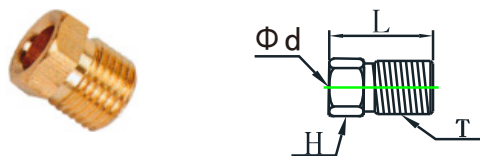
反向直角接头 Reverse square joint



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

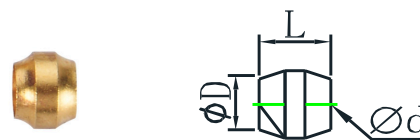
润滑附件 Lubrication Accessories

套管帽/油管接头 Casing cap/tubing joint



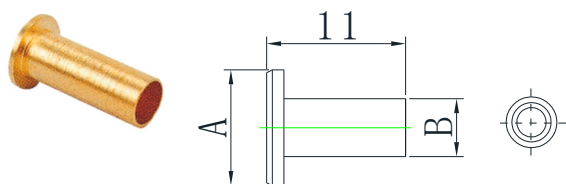
型号Model	管径Diameter	Φd	L	T	H	重量(g) Weight
MA04	Φ4	4.1	12	M8X1.0	8	3
MA04-1	Φ4	4.2	12	M8X1.0	8	3
MA06	Φ6	6.1	12.5	M10X1.0	10	4
MA08	Φ8	8.1	14	M14X1.5	14	9
MA010	Φ10	10.1	15	M16X1.5	16	10

套管/密封圈 Casing/ seal ring



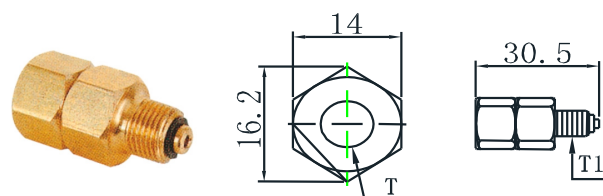
型号Model	管径Diameter	Φd	ΦD	L	重量(g) Weight
MB04	Φ4	4.1	6	4.5	0.3
MB06	Φ6	6.1	8	4.5	0.6
MB08	Φ8	8.1	11	7	2
MB10	Φ10	10.1	13.5	8	3

管内衬/油管衬套 Casing cap/Tubing joint



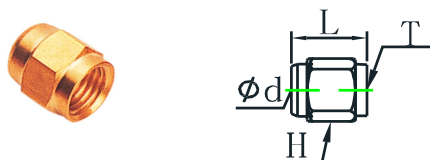
型号Model	A	B	重量(g) Weight
MF04	Φ4	Φ2	0.1
MF04-1	Φ4	Φ2.5	0.1
MF06	Φ6	Φ4	0.2

活动直通接头 Movable through joint



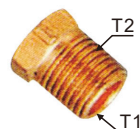
型号Model	管径Diameter	T	T1	重量(g) Weight
MW0418	Φ4	M8X1.0	PT1/8	28
MW0618	Φ6	M10X1.0	PT1/8	26
MW0118		PT1/8	PT1/8	26

螺帽/接头螺母 Nut/sub nut



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

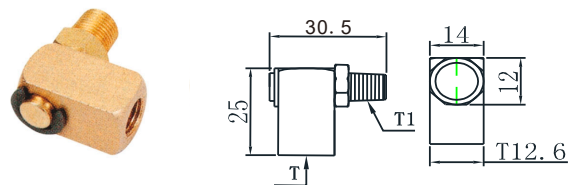
补芯 Complement core



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

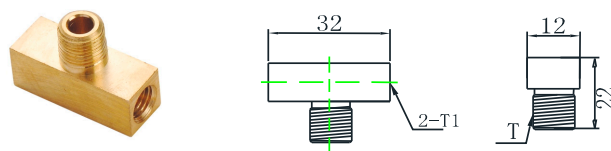
润滑附件 Lubrication Accessories

活动直角接头 Movable square joint



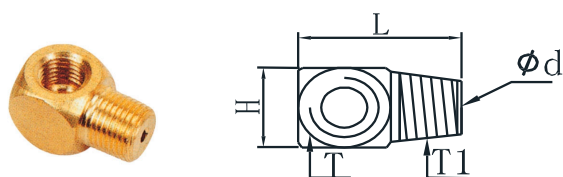
型号Model	管径Diameter	T	T1	重量(g)Weight
MC0418	Φ4	M8X1.0	PT1/8	38
MC0406	Φ4	M8X1.0	M6X1.0	38
MC0408	Φ4	M8X1.0	M8X1.0	38
MC0118		PT1/8	PT1/8	36

过渡三通 Transition tee



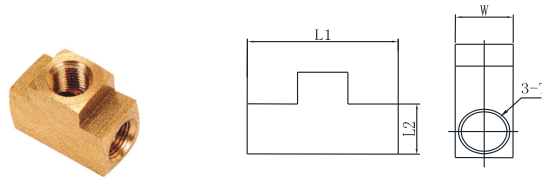
型号Model	管径Diameter	T	T1
BGT0806	Φ4	M6X1.0	M8X1.0
BGT0808	Φ4	M8X1.0	M8X1.0
BGT0818	Φ4	PT1/8	M8X1.0
BGT1006	Φ4	M6X1.0	M10X1.0
BGT1008	Φ6	M8X1.0	M10X1.0
BGT1018	Φ6	PT1/8	M10X1.0

平面直角接头 Flat rectangular joint



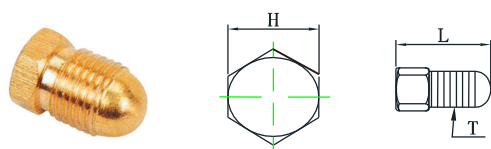
型号Model	管径Diameter	Φd	L	T	T1	H	重量(g)Weight
MPL0408	Φ4	2	21	M8X1.0	M8X1.0	12.7	15
MPL0410	Φ4	2	21	M8X1.0	M10X1.0	12.7	15
MPL0418	Φ4	2	21	M8X1.0	PT1/8	12.7	17
MPL0408Z	Φ4	2	21	M8X1.0	Z1/8	12.7	17
MPL0618	Φ6	2	22.3	M10X1.0	PT1/8	12.7	15
MPL1818		2.5	21	PS1/8	PT1/8	12.7	15

孔内三通接头 Hole tee



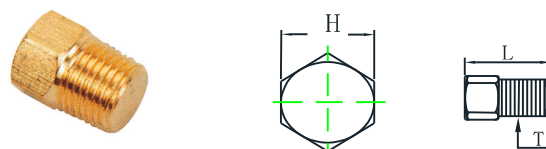
型号Model	T	L1	L2	W	重量(g)Weight
MT18	PS1/8	27	21	14	34
MT14	PS1/4	31	25	18	47
MT38	PS3/8	40	31	21	86

套管塞头 Casing stopper head



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

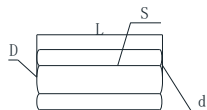
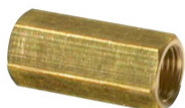
平端塞头 Flat end plug



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

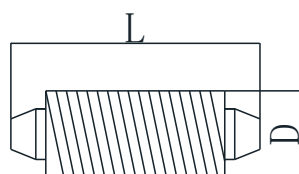
润滑附件 Lubrication Accessories

内接双通接头 Two-way connection



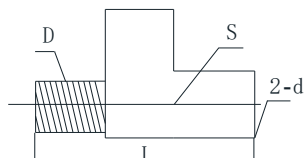
型号 Model	d牙径Tooth size	D牙径Tooth size	L长度Length	S角位Angle
2-8-8	M8X1	M8X1	24	10
2T-8-10	M8X1	M10X1	24	12
2T-10-10	M10X1	M10X1	26	12
2T-10-12	M10X1	M12X1.25	29	14
2T-8-G1/8	M8X1	G1/8	23	10
2T-10-G1/8	M10X1	G1/8	23	12
2T-14-G1/4	M14X1.5	G1/4	33	16
2T-16-G1/4	M16X1.5	G1/4	36	18
2T-18-G3/8	M18X1.5	G3/8	39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

连接接头 Connector



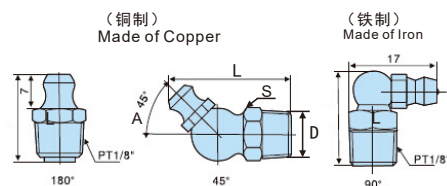
型号 Model	D牙径 Tooth size	L长度 Length
PJ-6	M6X1.0	20
PJ-8	M8X1.0	23
PJ-10	M10X1.0	25

侧外接三通接头 Lateral external tee joint



型号 Model	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

黄油嘴 Grease nipple

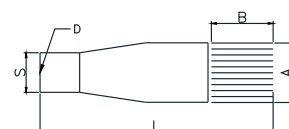


型号 Model	D牙径Tooth size	A角度Angle	L长度Length	S角位Angle
HY-106T	M6X1	0°	12	8
HY-108T	M8X1	0°	15	10
HY-110T	M10X1	0°	17	11
HY-114T	R1/4	0°	24	13.5
HY-118T	R1/8	0°	17	11
HY-206T	M6X1	45°	16	10
HY-208T	M8X1	45°	19	10
HY-210T	M10X1	45°	19	11
HY-214T	R1/4	45°	26	13.5
HY-218T	R1/8	45°	19	11
HY-306T	M6X1	90°	16	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=0° as grease nipple)
A=45° 时为弯黄油嘴 (A=45° to turn yellow when the nozzle)
A=90° 时为直角黄油嘴 (A=90° for right grease nipple)

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

油刷 Oil brush



型号 Model	D牙径Tooth size	D	S	B	A
M0B1816	RC1/8	75	14	37	16

润滑附件 Lubrication Accessories

宝塔型直接头 Pagoda straight head

	型号 Model	管径 Diameter	T外牙螺纹 The outer thread
	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 Pagoda-type right Angle joint

	型号 Model	管径 Diameter	T外牙螺纹 The outer thread
	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 Inside the thread tee

	型号 Model	T1(内牙) Inner thread	T1(内牙) Inner thread	T3(内牙) Inner thread
	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 Outside the thread tee

	型号 Model	T1(内牙) Inner thread	T2(内牙) Inner thread	T3(内牙) Inner thread
	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

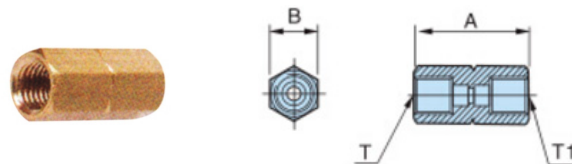
润滑附件 Lubrication Accessories

外牙双通接头 External two-way connector



型号 Model	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

内牙双通接头 Internal teeth two-way connector



型号 Model	A	B	T	T1	重量(g) Weight
MK108	23	10	M8X1.0	M8X1.0	10
MK110	25	12	M10X1.0	M10X1.0	15

铜快速直接头 Copper quick direct head

型号 Model	管径 Diameter	外牙 Outer thread
MKBD0408	Φ4	M8X1.0
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

内外牙直角接头 Right Angle joint of inner and outer teeth

型号 Model	D1内牙 Inner thread	D2外牙 Outer thread
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 Internal square joint

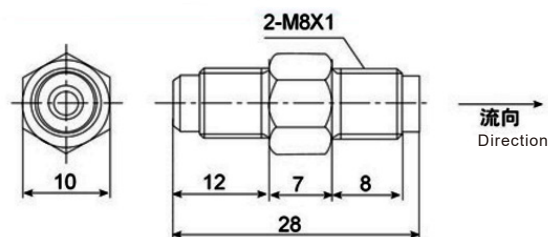
型号 Model	D1内牙 Inner thread	D2内牙 Inner thread
MBH11818	PS1/8	PT1/8
MBH11414	PS1/4	PT1/4
MBH13838	PS3/8	PT3/8
MBH11212	PS1/2	PT1/2
MBH13434	PS3/4	PT3/4

外牙直角接头 Outer tooth rectangular joint

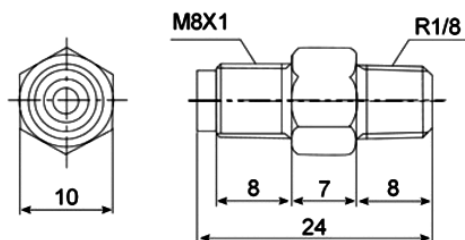
型号 Model	D1外牙 Outer thread	D2外牙 Outer thread
MBH21818	PS1/8	PT1/8
MBH21414	PS1/4	PT1/4
MBH23838	PS3/8	PT3/8
MBH21212	PS1/2	PT1/2
MBH23434	PS3/4	PT3/4

比例式限流杆 Proportional Restrictor Rod

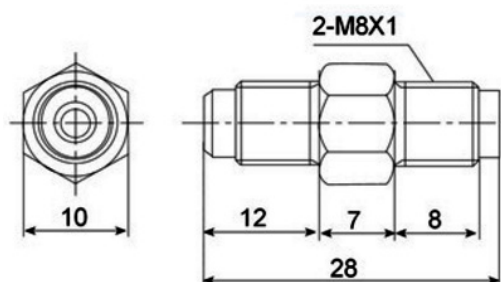
DPM型



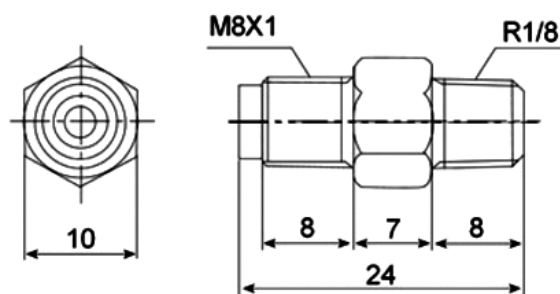
DPJ型



MC型



MJ型

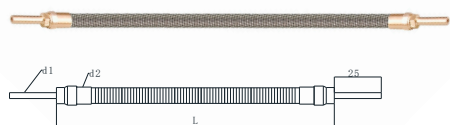


1. DPM/DPG/MC/MJ型抵抗式计量件又称比例接头。
2. 管式结构，内有限流杆和单向阀。
3. 开启压力：0.2MPa。
4. 通过节流原理控制流量，按流通能力（流量定数）对流量进行比例分配。同型号计量件再润滑系统中相互间距离的远、近、高、低、卧装或立装均在实际使用中其出油量基本相同等。使用寿命长，比例接头单向阀其橡胶密封件外部试压铜套（除密封面外）防止橡胶密封件膨胀和老化。
5. 动作灵敏，排油畅通：比例接头单向阀采用锥形弹簧，确保计量件动作敏与排油畅通，并防止排除的油剂逆流。
6. 流量比：同一型号的流量在实际使用过程中会有环境温度的变化和油的粘度不同而发生变化。

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.

润滑油管 Lubrication Oil Tube

外钢丝软管 External wire hose

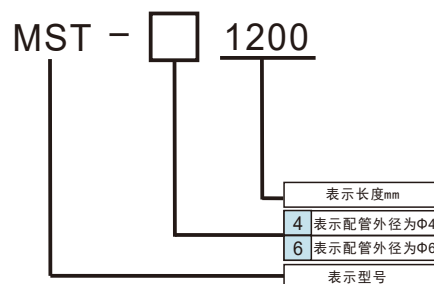


型号 Model	配管外径 d1 Outer Diameter	使用压力 使用压力 Operate Pressure	最小弯曲半径 Minimum bending radius	d2	L (mm)
MST-4	Φ4	3.0Mpa	R20mm	Φ12	可根据用户需求定制 Can be customized
MST-6	Φ6	2.7Mpa	R40mm		

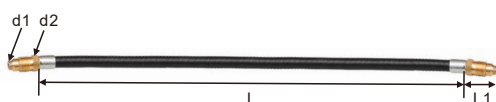
* 外钢丝软管使用橡胶管，可在有切屑和工作环境恶劣的场所下使用，适用于温度范围-20~+80° C

* 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

型号选型 Model



外钢丝护套软管 Hose with outer wire sheath

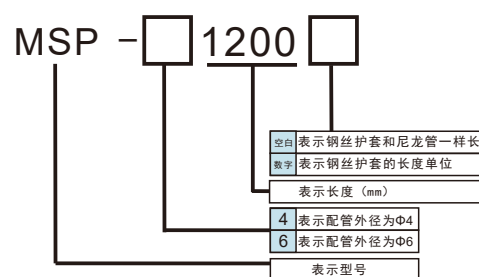


型号 Model	配管外径 d1 Outer Diameter	使用压力 Operate Pressure	最小弯曲半径 Minimum bending radius	d2	L1	L (mm)
MSP-4	Φ4	3.0Mpa	R20mm	Φ8	17	可根据用户需求定制 Can be customized
MSP-6	Φ6	2.7Mpa	R40mm	Φ10	18	

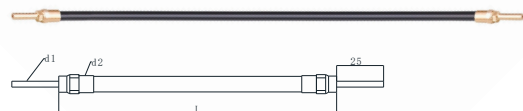
* 外钢丝护套软管是一种外套弹簧的尼龙管，可在有切屑和工作环境恶劣的场所下使用，适用于温度范围-20~+80° C

* 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

型号选型 Model



高压软管 High pressure hose

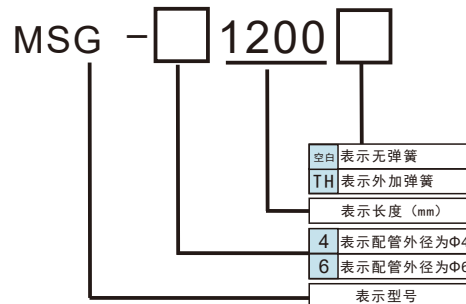


型号 Model	配管外径 d1 Outer Diameter	使用压力 Mpa Operate Pressure	最小弯曲半径 Minimum bending radius	d2	L (mm)
MSG-4	Φ4	20	R40mm	Φ12	可根据用户需求定制 Can be customized
MSG-6	Φ6	18	R80mm	Φ12	

* 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

型号选型 Model



钢丝弹簧护套 Steel wire spring jacket

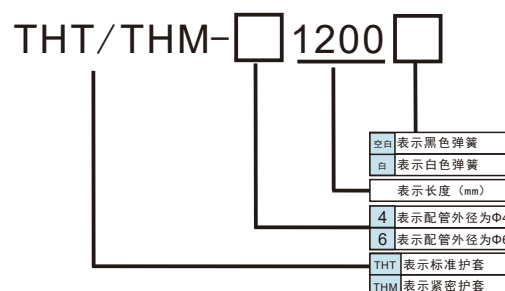


型号 Model	配管内径 Inner diameter	弹簧长度/条 Spring length	使用范围 Using range
THT	Φ4/Φ6/Φ8	2m/4m	与尼龙管胶管配合使用 Used with nylon hose
THM	Φ4/Φ6/Φ8	2m/4m	

* 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

型号选型 Model



 DPM型	型号Model	流量Traffic (CC/min)	连接方式Connection mode	备注Notes
	DPM-0	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MB04和螺帽MP04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 MB04 and nut MP04 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	3.8		
	DPM-2	6		
	DPM-3	12		
	DPM-4	18		
	DPM-5	22		

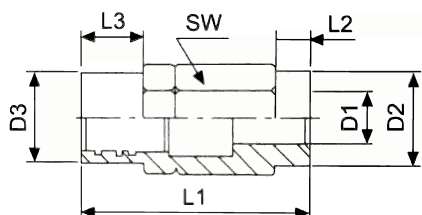
 DPJ型	型号Model	流量Traffic (CC/min)	连接方式Connection mode	备注Notes
	DPJ-0	1.8	进油口连接方式可与套管MB04和螺帽MP04链接出油口端与设备连接，常用于支管末端分配到机械润滑点。 The inlet connection mode can be connected with the casing MB04 and nut MP04. The outlet end is connected with the equipment and is often used to allocate the end of the branch pipe 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	3.8		
	DPJ-2	6		
	DPJ-3	12		
	DPJ-4	18		
	DPJ-5	22		

 MC型	型号Model	流量Traffic (CC/min)	连接方式Connection mode	备注Notes
	MC-0	1.8	两端分别与套管MB04和螺帽MP04链接，常用于油路中端。 The two ends are respectively connected with the casing MB04 and the nut MP04, 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	3.8		
	MC-2	6		
	MC-3	12		
	MC-4	18		
	MC-5	22		

 MJ型	型号Model	流量Traffic (CC/min)	连接方式Connection mode	备注Notes
	MJ-0	1.8	进油口连接方式可与套管MB04和螺帽MA04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 MB04 and nut MA04. 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
	MJ-1	3.8		
	MJ-2	6		
	MJ-3	12		
	MJ-4	18		
	MJ-5	22		

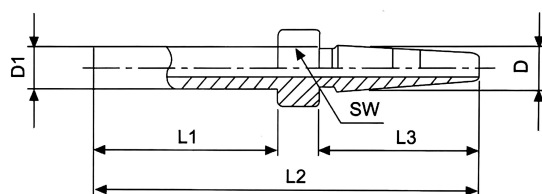
高压管接头 High Pressure Tubing Joint

高压管接头外套 High pressure adapter jacket

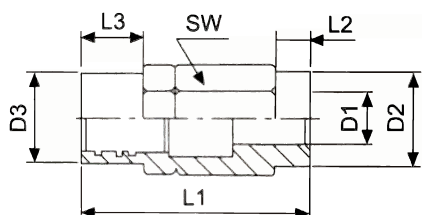


规格型号(外套) Model(Outer Casing)	D1	D2	D3	L1	L2	L3	SW	材料 Material
MSG(D/L)	M7X0.75	Φ11.8	Φ11.7	28	4	8	12	钢Steel
规格型号(直涨芯管针) Model (Straight core needle)	管外径D1 Diameter	D	L1	L1	L2	L3	SW	材料 Material
MSGD04	Φ4	M7X0.75	18	28	4	8	12	钢Steel
MSGD06	Φ6	M7X0.75	18	28	4	8	12	钢Steel

高压管直涨芯 The high pressure pipe goes straight up to the core

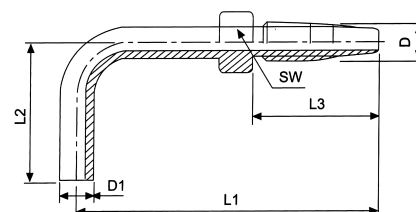
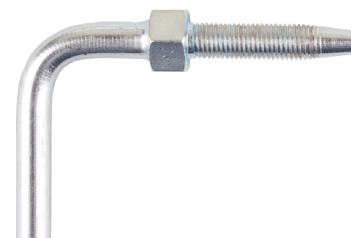


高压管接头外套 High pressure adapter jacket



规格型号(外套) Model(Outer Casing)	D1	D2	D3	L1	L2	L3	SW	材料 Material
MSG(D/L)	M7X0.75	Φ11.8	Φ11.7	28	4	8	12	钢Steel
规格型号(弯涨芯管针) (Bend core tubing needle)	管外径D1 Diameter	D		L1	L2	L3	SW	材料 Material
MSGD04	Φ4	M7X0.75		45	20.7	25	10	钢Steel
MSGD06	Φ6	M7X0.75		45	20.7	25	10	钢Steel

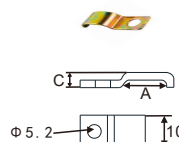
高压管弯涨芯 The high pressure pipe bends the rising core



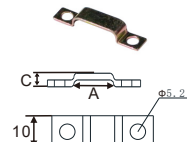
管夹Pipe clamp

名称Item	型号Model	管径Diameter	管夹数Amount	A	C	重量 (g) Weight
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
双边固定管夹 Bilateral tube clamps	MZ1304	Φ4	3	15	5	2.2
	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



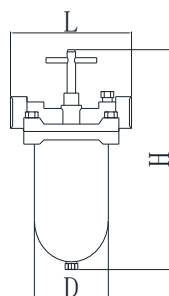
镀铜铝管 Copper coated aluminum tube



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	APD	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Adjustable filter



性能与特点Performance and characteristics

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。

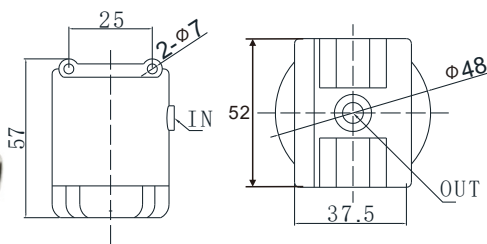
Performance and features:

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The filter



性能与特点Performance and characteristics

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(g) Weight
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 $Q=0.4 \times 8 \times 1=0.32\text{ml/h}$	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 $Q=0.0023 \times 8 \times 10=1.84\text{ml/h}$	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 x 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 sidling 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, chair 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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Customer First
诚信为本
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