

AUTO LUBE

PLCd-240

#4533



Quality you can count on!

DATA SHEET

AUTO-LUBE PLCd/2 (PLC Powered & Programmed)

A full featured externally powered, self-contained automatic lubricator that is powered and programmed with your PLC

General Description

The AUTO-LUBE PLCd/2 is a reusable, electro-mechanical lubricator that is externally powered and programmed using your PLC. It's constant 350psi lubricant output pressure allows the unit to be direct mounted, remote mounted up to 30 feet* away from the lube point, or coupled with a progressive distribution block to lubricate from 2 to 12** lube points. This model is available in capacity size of 240cc and is designed for PLC controlled machinery where a 24VDC power supply is available.



Programming the PLCd



The AUTO-LUBE 24V-PLCd/2 lubricator has a unique design utilizing a Power-Through AUTO fitting which contains the electrical connections needed to power the unit. This gives the user the ability to quickly remove the lubricator for fast lubricant cartridge change-out while avoiding disconnecting the electrical connections. A 5-foot extension cable on the Power-Through AUTO fitting is connected to a PLC-controlled power supply.

The PLC program controls the frequency of lubrication output cycles by applying a 24VDC current for at least 5 seconds and a maximum of 15 seconds for a single lubrication stroke. Turn off the current until the next lubrication cycle is required. If continuous power is applied the unit will cycle every 25 seconds for a total of 10 cycles and then go into sleep mode. To get the 24V-PLCd/2 lubricator out of sleep mode, shut off the current supply and start the unit again.

Further control is provided by adjusting the volume of lubricant ejected on each cycle. A set of 8 special stroke-limiting washers are supplied with each lubricator. When the Power-Through AUTO is used without washers (yielding full piston stroke), the output volume at each stroke is 0.63cc. For each washer (including the "C"-shaped lock washer) inserted into the brass adapter of the Power-Through AUTO, the output volume is decreased by 0.04cc per stroke.

Operation

The AUTO-LUBE PLCd/2 metered positive displacement pump has been primed before shipment and is ready for use. On first installation, all fittings, lube lines and bearings should be pre-charged with the same lubricant that was ordered with the lubricator. Next, install the Power-Through AUTO fitting to your lube point and connect the lead wire to your preprogrammed PLC. Screw the AUTO-LUBE PLCd/2 on the Power-Through AUTO fitting. Once power is applied to the lubricator the unit will cycle once and proceed to follow the PLC program. Periodic visual inspection is recommended for all AUTO-LUBE lubricators.

When the lubricant cartridge is empty, unscrew the AUTO-LUBE PLCd/2 lubricator from the Power-Through AUTO fitting. Place the unit on a firm surface, outlet end down. Push down on the clear plastic housing while turning the black plastic locking ring counter-clockwise. The housing and spring assembly will separate from the pump base. Remove the empty cartridge and replace with a new one.

*Maximum lube line length is dependent on ambient temperature, grease type and application back pressure.

Benefits

Reduce production downtime by lubricating your equipment while in operation

Improve safety by remote mounting the lubricator up to 30 feet from lube points in hazardous locations

Easily integrates with your current lubrication program

Reduce lubrication costs by utilizing "Minimal Lubrication Practices" by programming the lubricator to your machine requirements

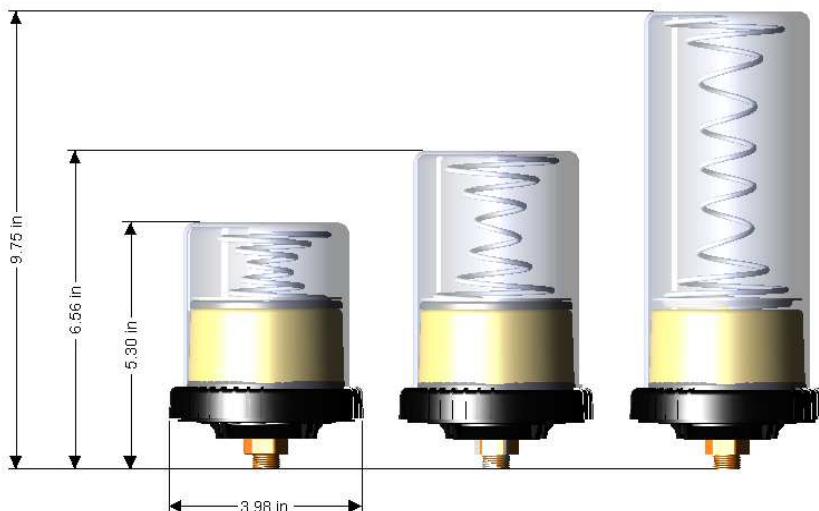
Specifications	
Operation:	Electro-Mechanical, positive displacement pump
Lubricant cartridge capacity:	120cc, 240cc or 480cc (Replaceable)
Compatible lubricants:	Specify lubricant
Connection thread:	1/4" NPT Male
Max operating pressure:	350psi (25 bar)
Temperature range:	5°F to 120°F (-15°C to 50°C)
Output timing settings:	Output frequency programmed from external PLC
Power supply:	External 24vdc; max amps 0.5; stroke duration 8 sec.
External On/Off Control	Yes
Remote installation:	Up to 30 feet (9 meters), single-point
Reusable:	Yes
Multi-Point compatible:	Yes
Warranty:	2 Year limited

*Maximum lube line length is dependent on ambient temperature, grease type and application back pressure.

** Multi-Point Systems with more than 8 outlets have restrictions on tubing OD, tubing length and the viscosity of the lubricant.

Electrical Specifications

- PLC-controlled lubrication cycles
- 2-wire, 5ft extension cable, Brown(+), Blue(-)
- Input voltage: 24VDC
- Max Amps: 0.5A
- Single cycle duration: 10 seconds
- Minimum time between output cycles: 10 Minutes
- Maximum continuous running time: 60 Seconds
- Polarity Protection



Application Photo



Production equipment application

Accessories



Wire Extension Kits



Protective Cover



Installation Kit

AUTO-LUBE PLCd Installation Instructions



1. Install stroke limiting spacer washers if needed.



2. Install the Power-Through AUTO fitting.



3. Screw on the AUTO-LUBE PLCd/2 lubricator.



4. Connect the extension wire to your programmed PLC.

AUTO-LUBE PLCd Exploded View

