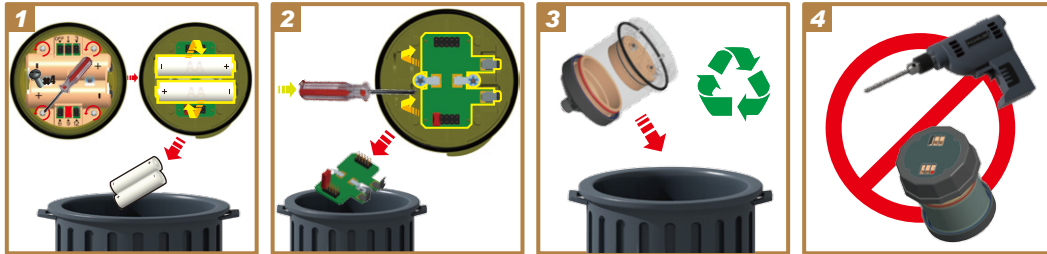


## Pulsarlube E Grease Selection Guidelines

Grease	Grease Type	Description
PL1	Multi Purpose	High performance NLGI #2 grade
PL2	Heavy Duty	Excellent heavy duty NLGI #2 with high viscosity base fluids and additional load carrying capacity
PL3	High Speed	High performance NLGI #1 grade
PL4	H1 Food Grade	USDA H1 NLGI #2 grade for applications where food grade product is required
PL5	High Temperature	Synthetic high performance NLGI #2 grade with oxidation stability
PL6	Multi Purpose MoS <sub>2</sub>	Dark gray colored MoS <sub>2</sub> containing mineral based product fortified extreme pressure property
PL7	Low Temperature	Fully synthetic product for extreme low temperature applications

**NOTE** OEM filling is available upon request under special terms and conditions. Please contact your local distributor for more information.

## How to Dispose



1. Turn the housing cap counterclockwise and unscrew the top to remove the battery cover. Dispose of used battery pack conforming to local regulations.
2. Using a hand tool such as screw driver, detach the PCB (Printed Circuit Board) from the used unit. Dispose of the PCB conforming to local regulations.
3. Dispose of remaining plastic components in a designated area. Comply with local regulations for recycling.
4. **Do not** cut or puncture a used unit to avoid any potential personal injury or hazards.

## Shelf Life and Warranty Period

The shelf life of each Pulsarlube E unit is 1 year from the date of production. Product warranty is limited to original defects in material and workmanship and will not cover any collateral damage due to mishandling, abuse and /or any other inappropriate use of this product. Warranty period is 1 year from the date of purchase.

## How to Order

E60 / PL1  
E120 / PL2  
E240 / PL3

Grease Type  
Lubricator Model (Pulsarlube E, E60: 60cc, E120: 120cc, E240: 240cc Capacity)

## Pulsarlube USA, Inc.

4312 Di Paolo Center, Glenview, IL 60025, USA  
TEL: 1-847-795-0591 FAX: 1-847-795-0119

www.pulsarlube.com / info@pulsarlube.com

Doc No. 1122-000 REV. 130103

# PULSARLUBE E

USER MANUAL

Cost Effective, User Friendly Automatic Single Point Lubricator

## Specifications

Specifications	Description
Grease Capacity	60, 120, 240cc
Max Operating Pressure	5kgf/cm <sup>2</sup> (70psi)
Operating Temp Range	-20°C ~ 55°C (-4°F ~ 131°F)
Product Size	60cc : Ø77mm (3.03") × 92mm (3.62") 120cc : Ø77mm (3.03") × 112mm (4.41") 240cc : Ø77mm (3.03") × 157mm (6.18")
Weight	60cc : 245g (0.54lb) 120cc : 305g (0.67lb) 240cc : 432g (0.95lb)
Installation Thread Size	1/4" Male NPT & BSPT compatible
Gas Type	Nitrogen (N <sub>2</sub> ) Gas
Available Dispensing Periods	1, 3, 6, 9 & 12 months
Certifications / IP code	CE / ATEX / UL / IP68
Remote Installation	Up to 1m (3ft) using a 8mm (5/16") O.D. pre-filled lube line

**NOTE** Technical information is subject to change without prior notice.



## Models

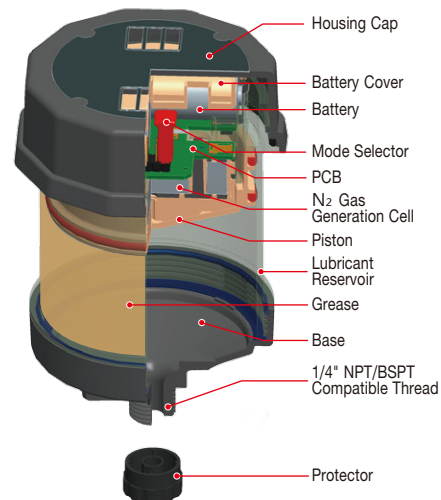
PULSARLUBE E60/120/240, 60/120/240cc Grease Lubricator

ISO9001/14001 CE

## Before Use

Thank you for purchasing the Pulsarlube E. To ensure the safe operation and proper installation of the Pulsarlube E unit, we strongly recommend that you read the following information carefully before use. If you require further information, please contact your local supplier or manufacturer.

## Product Details



## Product Certifications

Certifications		
IECEX	Ex ia IIC T4 Ga IECEX KTL 12.0008X -20°C ≤ T <sub>as</sub> ≤ 55°C	IEC 60079-0:2007-10 IEC 60079-11:2006
ATEX	CE 0344 Ex ia IIC T4 Ga INERIS 12ATEX0062X -20°C ≤ T <sub>as</sub> ≤ 55°C	EN 60079-0:2009 EN 60079-11:2007 EN 60079-26:2007
KCs	Ex ia IIC T4 12-KB2BO-0283X -20°C ≤ T <sub>as</sub> ≤ 55°C	
UL	UL US LISTED 4UX9	

## Warning

- Potential electrostatic charging hazard.
- The cleaning from the PULSARLUBE shall be done with a wet cloth.
- Do not change inside Batteries.

## Description

Manufacturer / Address	KLT Co., Ltd. 597-2, Geumseung-ri, Tanhyeon-myeon, Paju-Si, Gyeonggi-Do, South Korea
Product Description	Automatic Single Point Lubricator
Product Name	Pulsarlube E
Type	E60, E120, E240
Trademark	KLT PULSARLUBE

## Installation Instructions

1



Before installing the Pulsarlube E, remove contaminants around the lube point and ensure a clear passage by purging the lube point with a manual grease gun. If the lube passage is restricted, it may affect the performance of the lubricator. Please use the same or compatible grease as contained in the Pulsarlube E.

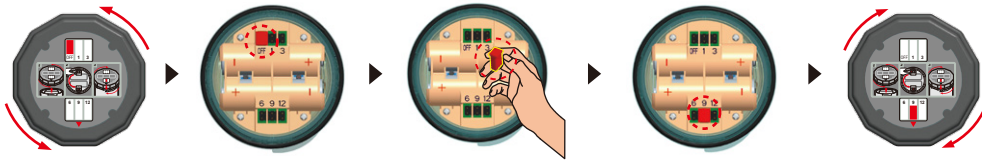
2



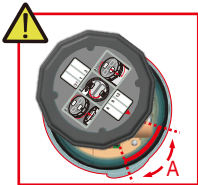
Remove the grease nipple and check for hardened grease at the bearing lube point. If hardened grease exists, clean the lube point before mounting the Pulsarlube E unit on the bearing.

3

### Set dispensing mode



- Turn the housing cap counterclockwise and unscrew the cap.
- Pull out the red Mode Selector from the default **OFF** position.
- To activate the Pulsarlube E unit, firmly push the Mode Selector into the slot of the selected period from 1, 3, 6, 9, or 12 months. The unit will soon start dispensing self-contained lubricant at the desired rate.
- Turn the housing cap clockwise until the cap is securely locked in place.



⚠ To position the window properly, place the ▼ on the housing cap in the area indicated (A).

4



Prior to installation, the installation date and scheduled date of expired lube cycle should be logged by the operator on the label of the Pulsarlube E. Refer back to label of the Pulsarlube E unit for further identification.

5



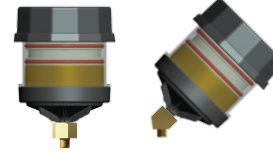
Remove the protector from the output thread and install on the lube point. The Pulsarlube E has a resiliently engineered plastic 1/4" output thread that is compatible to both NPT and BSPT threads. Use appropriate adapters if necessary and make sure that adapters are firmly tightened. Do not excessively tighten the Pulsarlube E as it may result in permanent damage to the plastic thread.

#### ⚠ WARNING

Do not use the Pulsarlube E unit for multiple lube points as it is designed for single point lubrication only. Please refer to #6 for preferred mounting methods and examples.

## 6 Mounting Methods

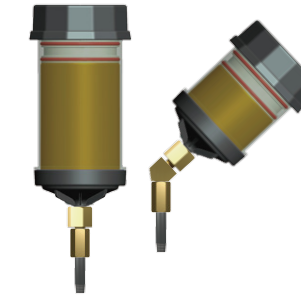
### Direct Mount - Straight & Angle



The most common and preferable mounting method is a **Direct Straight Mount**. When there are space restrictions of the application that will not allow a direct straight mount, use a 45° or 90° fitting for **Direct Angle Mount**.

When using angle fittings, ensure that the total length of the mount is not excessive.

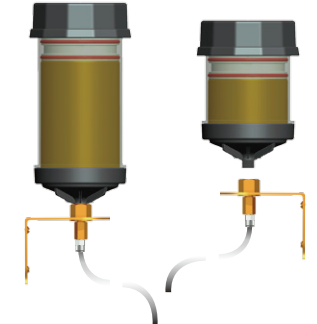
### Direct Mount with Extension - Straight & Angle



For applications where a direct straight mount or angle mount is not available, use a straight, 45°, or 90° fitting with extension pipe, e.g. 50mm, 100mm, 150mm etc.

When using extension pipes in combination with angle fittings, keep the total length of the mount as short as possible.

### Remote Mount (up to 1m)



For applications not allowing any direct mounts or extension mounts, remotely mount the unit, securing with a bracket, using an 8mm O.D. (5/16") pre-filled lube line.

#### ⚠ WARNING

Keep the total length of the mount at 1m (3ft) or less.

## Dispensing Equivalents

Required dispensing volume may vary with individual bearing types and operating conditions.

Dispensing Period	Dispensing Volume			NOTE
	60cc	120cc	240cc	
1 Month	2,00cc/day	4,00cc/day	8,00cc/day	Dispensing volumes (cc/day) are calculated assuming the lubricator is operating at 20°C/68°F and at sea level, 14.7 psi.  Output will vary with ambient temperature changes, atmospheric pressure changes, viscosity of lubricant, or any resistance or backpressure existing at the lube point (bearing and passage).
3 Month	0,67cc/day	1,33cc/day	2,66cc/day	
6 Month	0,33cc/day	0,67cc/day	1,33cc/day	
9 Month	0,22cc/day	0,44cc/day	0,89cc/day	
12 Month	0,17cc/day	0,33cc/day	0,67cc/day	

Testing is recommended for specific applications. Contact your local distributor should you need any assistance in setting proper dispensing rates.