

The Innovative Leader of Automatic Lubricators



PULSARLUBE


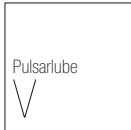












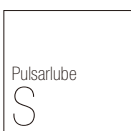
Master Catalogue





The Best Lubrication Solutions

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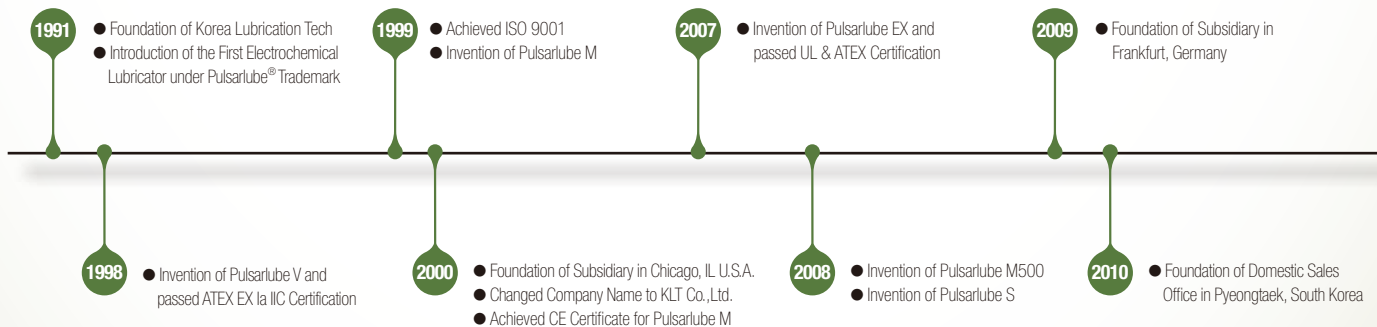
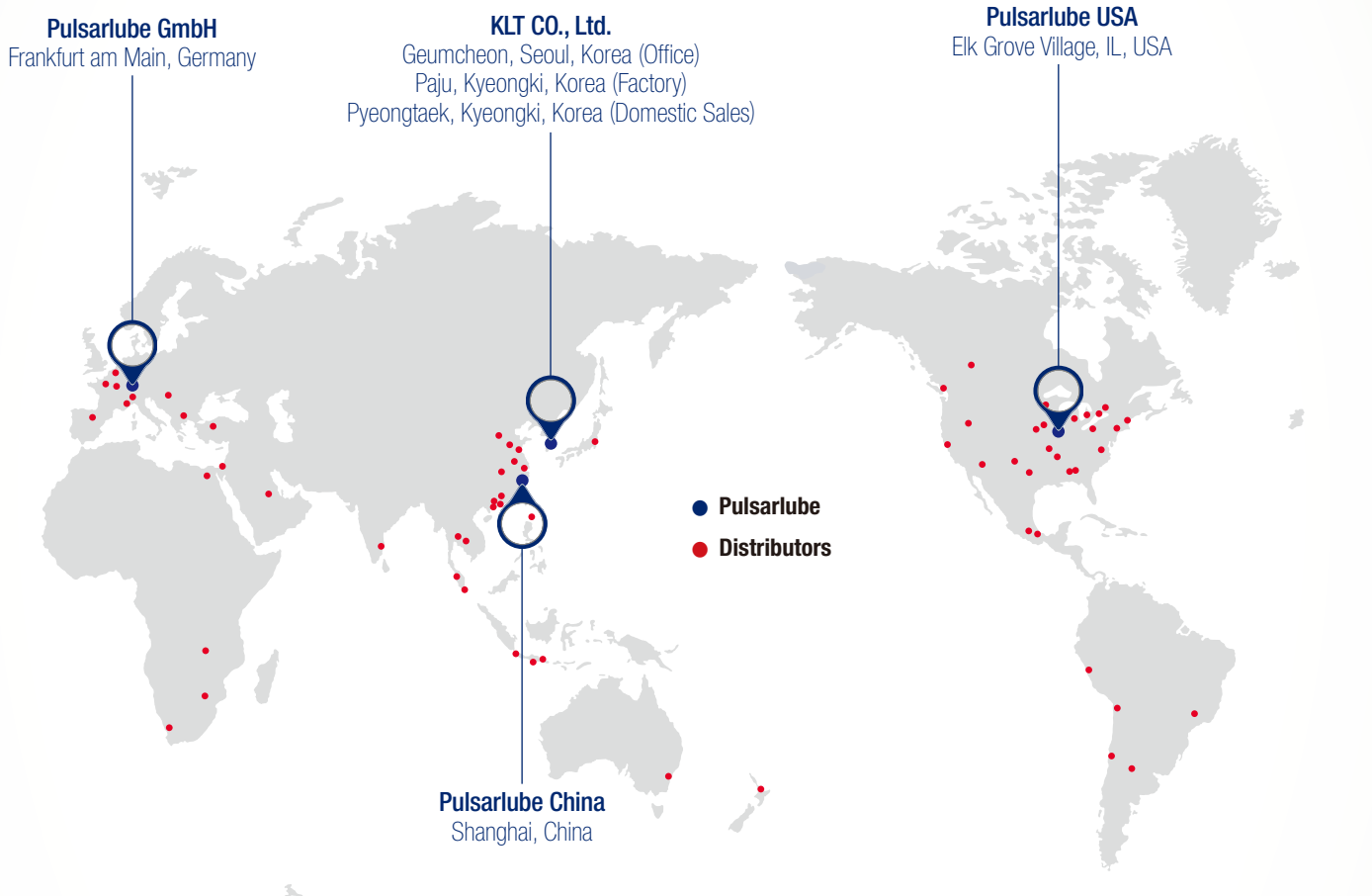
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Company Introduction

Utilizing patented cutting edge microprocessor technology, **PULSARLUBE®** provides the most innovative and reliable Automatic Single Point Lubricator on the market. Backed by years of research and development PULSARLUBE offers a wide range of superior products to meet the needs of our customers.

PULSARLUBE provides high quality products and services worldwide through its well-established distribution network.





provides its customers with the highest quality assurance as well as continuous innovation to its cutting edge technology for the best lubrication solutions.



2011

- Foundation of Sales Office in Seoul, South Korea (Marketing/Sales, R&D)
- Achieved ISO 14001

2013

- Foundation of Sales Office in Shanghai, China

2015

- Invention of Pulsarlube PLC

2017

- Invention of Pulsarlube EXP

2012

- Invention of Pulsarlube E & passed IECEX/ATEX/UL Certification

2014

- Invention of Pulsarlube Mi

2016

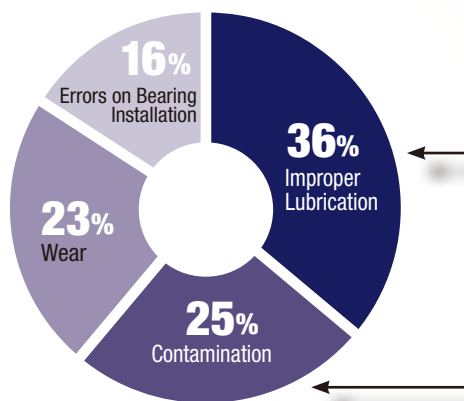
- Launch of Customized Lubricant Business

2018

- Invention of electromechanical Pulsarlube EXPL
- Invention of Pulsarlube BT

Is Your Equipment Well Maintained?

Many organizations are aware that excellent lubrication is a crucial step and a good investment to optimize machinery life. However in reality, the lubrication budget is often treated as secondary and is frequently one of the first areas for budget cuts. It can be difficult to find the right way, the right time, and the right amount to lubricate while determining what the “best lubrication solution” is for your machinery because optimum lubrication practices require skill, time, manpower, and money. PULSARLUBE offers a variety of lubrication products to solve all of your lubrication needs.



61%
of Bearing Failures
are Due to Lubrication
Issues

We Provide The Best Lubrication Solutions For Your Machinery

Accurate automatic lubrication can extend bearing life which will reduce replacement/repair cost and avoid unnecessary downtimes.

Disadvantages of Manual Lubrication

Excessive
Lubrication

Hazardous
Working Sites

Insufficient
Lubrication

High
Labor Cost

Advantages of Automatic Lubrication

Proper
Lubrication

Safe
Working Sites

Precise
Lubrication

Long-term
Cost Benefits

Pulsarlube is the most effective solution to lubricate your equipment.

Pulsarlube Automatic Lubricators: A Variety of Lubrication Solutions for Most Applications and Environments

Pulsarlube lubricators demonstrate definitive advantages over the competition.



High Operating Pressure

High operating pressures enables customers to have a variety of installation methods and options.

10_m

Up to 10m (30ft) for
single point remote installations.

8 points

Up to 8 lube points for
multi-point lubrication.



Wide Temperature Range

Our technology offers benefits in a wide range of ambient temperatures.

N₂

Inert nitrogen gas is less affected by
changes in ambient temperature.

Lithium Battery

Optional lithium battery offers excellent
performance in low temperatures.

Pulsarlube offers a variety of solutions that can significantly increase your bottom line.

Pulsarlube Product Line

Experience World Class Automatic Lubricators.

Pulsarlube **E**

Features

Compact, Economical, Submersible

Grease Replacement Method

Disposable

Operating Pressure

Max. 5bar (73psi)

Grease Pouch Capacity

60/120/240ml



Electrochemical

Pulsarlube **V**

Features

Advanced LCD, Microprocessor
Controlled Gas Generation

Grease Replacement Method

Disposable

Operating Pressure

Max. 5bar (73psi)

Grease Pouch Capacity

125/250ml



Pulsarlube **M**

Features

High Operating Pressure, Multi-Point Capabilities,
and Low Temp Capabilities

Grease Replacement Method

Service Pack Replacement

Operating Pressure

30~60bar (435~870psi)

Grease Pouch Capacity

60/125/250/500ml



Electromechanical

Pulsarlube **EX**

Features

UL Certified, Remote Installation
Capability, Advanced Diagnostics

Grease Replacement Method

Service Pack Replacement

Operating Pressure

Max. 15bar (218psi)

Grease Pouch Capacity

125/250ml



Pulsarlube **EXP/EXPL**

Features

The Electromechanical Industry's
First Highest Explosion-Proof Certified Lubricator

Grease Replacement Method

Service Pack Replacement

Operating Pressure

30~60bar (435~870psi)

Grease Pouch Capacity

60/120/240/480ml



Electromechanical

Pulsarlube **MS/MSP**

Features

Prevents Under & Over Lubrication by Synchronizing
Operation to Equipment

Grease Replacement Method

Service Pack Replacement

Operating Pressure

30bar~60bar (435~870psi)

Grease Pouch Capacity

60/125/250/500ml



Pulsarlube BT

Features

Bluetooth-enabled
Automatic Electromechanical Lubricator

Grease Replacement Method

Service Pack Replacement

Operating Pressure

30bar~60bar (435~870psi)

Grease Pouch Capacity

60/120/240ml



with Advanced Features

Pulsarlube Mi

Features

Synchronizes to Equipment without Electrical Wiring,
Advanced Vibration Sensor

Grease Replacement Method

Service Pack Replacement

Operating Pressure

30bar~60bar (435~870psi)

Grease Pouch Capacity

60/125/250ml



Pulsarlube PLC

Features

Manage Dispensing Rates through PLC,
Signal Out to External Alarm for Warning / Error Messages

Grease Replacement Method

Service Pack Replacement

Operating Pressure

30bar~60bar (435~870psi)

Grease Pouch Capacity

60/120/240/480ml



Spring

Pulsarlube S

Features

Refillable, Unique Design Reduces
Effects of Oil Separation

Grease Replacement Method

Refillable

Grease Pouch Capacity

100ml



Pulsarlube OL500

Features

Refillable, Compatible with a Wide Range
of Oil Viscosity, Multi-Point Capability

Oil Replacement Method

Oil Refillable

Operating Pressure

Max. 10bar (145psi)

Oil Reservoir Capacity

500ml



Oiler

Pulsarlube EO

Features

Compact, Economical

Oil Replacement Method

Disposable

Operating Pressure

Max. 5bar (73psi)

Oil Reservoir Capacity

60/120/240ml





Automotive

Chains
Lifts
Electric Motors
Conveyors
Loaders
HVAC Systems



Steel

Loaders
Conveyors
Electric Motors
Blowers
Fans
Pumps



Cement

Conveyors
Electric Motors
Blowers
Fans
Pumps



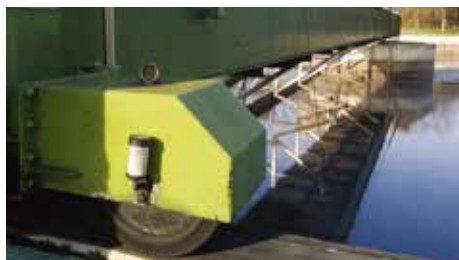
Mining

Mobile Equipment
Conveyors
Electric Motors
Pumps
Crushers



Pulp & Paper

Conveyors
Electric Motors
Blowers
Pumps
Paper Machines





Petrochemical

Electric Motors
Blowers
Pumps
Air Compressors



Thermal Power Plant

Water Pumps
Electric Motors
Conveyors
Boilers
Heaters



Nuclear Power Plant

Water Pumps
Electric Motors
Conveyors
Boilers
Air Handling Units



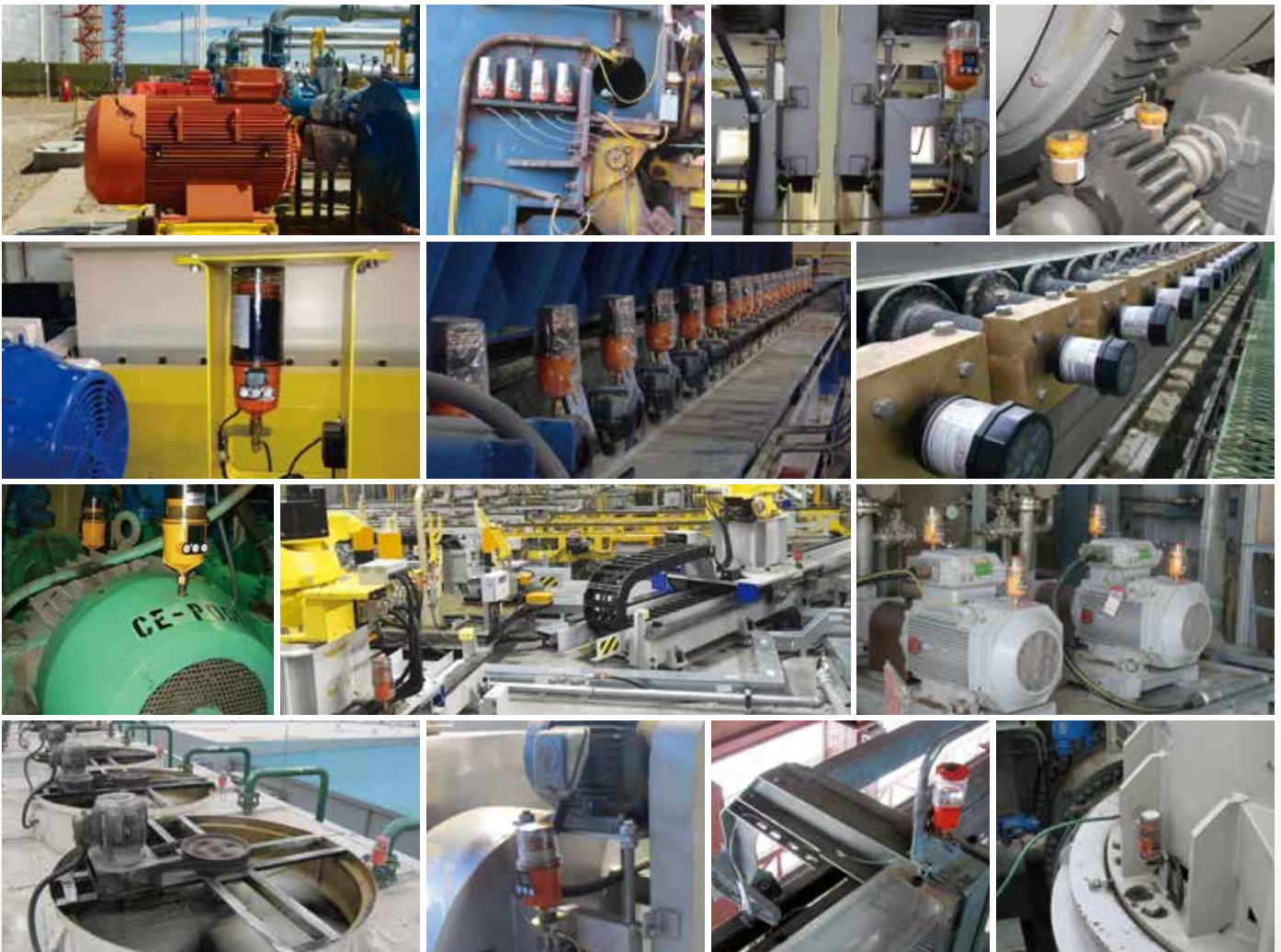
Semiconductor

Air Handling Units
Clean Rooms
Cooling Towers
SMD PCB Lines
LCD Panels
Loader Robots
Wet Scrubbers



Marine

Mooring Winch
Doors
Cranes
Pumps
Electric Motors



The Pulsarlube E is intrinsically safe.

The Pulsarlube E can be used in **hazardous locations** containing flammable liquids, vapors, gases, and dust.



Pulsarlube E

Compact & Economical

The Pulsarlube E is our smallest lubricator which can easily be installed in confined areas with limited accessibility. This eco-friendly product is recyclable.

Features & Benefits



Compact design is convenient for use in very confined spaces & Specially designed to endure high vibration



Transparent container and cap for easy visual inspection of remaining lubricant and dispensing periods



Eco-friendly product where applicable parts can be disposed of separately



Rated IP68 for dust-proof and protection against water damage



Specifications

Grease Pouch Capacity

60ml/120ml/240ml (disposable)

Power Supply

Electrochemical reaction (Nitrogen gas)

Operating Pressure

Max. 5bar (73psi)

Operating Temperature

-20°C~55°C (-4°F~131°F)

Dispensing Periods

1, 3, 6, 9, 12 month

Remote Installation

Max. 1m (3.3ft) with O.D. Ø8 tube

Multi-Point Installation

N/A

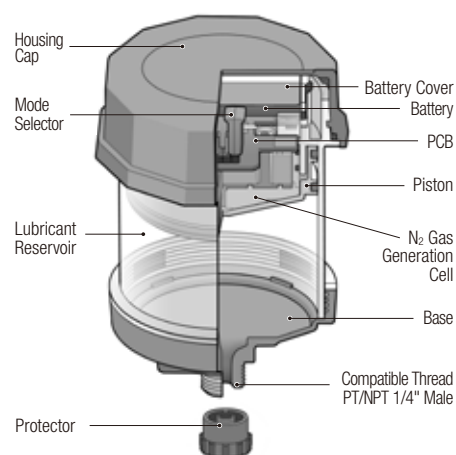
IP Code

IP68

Product Certifications

IECEX, ATEX, KCs, UL, CE, MSHA

Cross Section



Product Dimension

E60 : Ø77(3.03") x 91mm(3.58") (H)

E120 : Ø77(3.03") x 111mm(4.37") (H)

E240 : Ø77(3.03") x 156mm(6.14") (H)

Applications



CEMENT



PULP & PAPER



MINING



CONVEYORS



WASTE DISPOSAL



MARINE

Safety is a top priority.

Pulsarlube electrochemical lubricators generate inert nitrogen gas which is **safer** to use compared to hydrogen gas type lubricators.



IP68

IECEX



Pulsarlube V

Advanced Performance & Smart Operation

The Pulsarlube V is an easy-to-program gas type lubricator which offers a large user friendly LCD display.

Features & Benefits



Variable dispensing settings with a large informative LCD display & Easy to reprogram at any time with a press of a button



8-bit microprocessor controlled to ensure the most accurate dispensing rate



Certified CE, ATEX, UL for use in hazardous areas



Rated IP68 for dust-proof and protection against water damage



Specifications

Grease Pouch Capacity
125ml/250ml (disposable)

Power Supply
Electrochemical reaction
(Nitrogen gas)

Operating Pressure
Max. 5bar (73psi)

Operating Temperature
-20°C~55°C (-4°F~131°F)

Dispensing Periods
1, 2, 3, 6, 12 month & Purge (P)

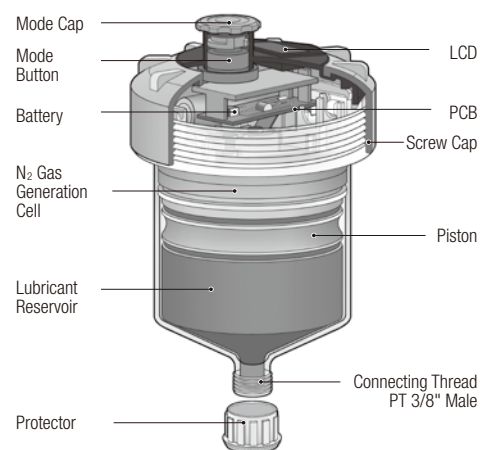
Remote Installation
Max. 1m (3.3ft) with O.D. Ø8 tube

Multi-Point Installation
N/A

IP Code
IP68

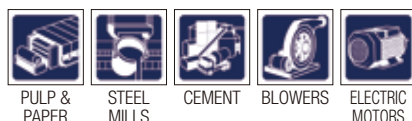
Product Certifications
IECEX, ATEX, KCs, UL, CE, MSHA

Cross Section



Product Dimension
V125 : Ø97(3.81") x 128mm(5.04") (H)
V250 : Ø97(3.81") x 166mm(6.53") (H)

Applications



Pulsarlube M

Unrivalled Power & Long-Term Reliability

The Pulsarlube M consists of a vertical feed pump and a microprocessor chip allowing an average operating pressure of 30bar (435psi). It is designed to ensure reliable lubrication and at the same time reduce lubrication expenses with cost saving Service Packs.



Features & Benefits

30bar	Up to 8 lube points for multi-point / Max. 10m (33ft) for single point
-40°C	Optional lithium battery pack available for low temperature usage
LCD	Easy to program with built-in LCD and simple button controls
Service Pack	Substantial savings with the use of replaceable grease pouches and battery packs

Specifications

Grease Pouch Capacity

60ml/125ml/250ml/500ml (replaceable)

Power Supply

DC 4.5V Battery Pack

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

Standard Alkaline Battery :
-15°C~60°C (5°F~140°F)
Optional Lithium Battery :
-40°C~60°C (-40°F~140°F)

Dispensing Periods

60ml : 1~12 month
125ml/250ml : 1, 2, 3, 6, 12 month & H (15 days)
500ml : 1, 2, 4, 6, 12, 18, 24 month & H (15 days)

Remote Installation

Max. 10m (33ft) with
O.D. Ø6 tube

Multi-Point Installation

Max. 6m (20ft) with
O.D. Ø6 tube
(Up to 8 lube points)

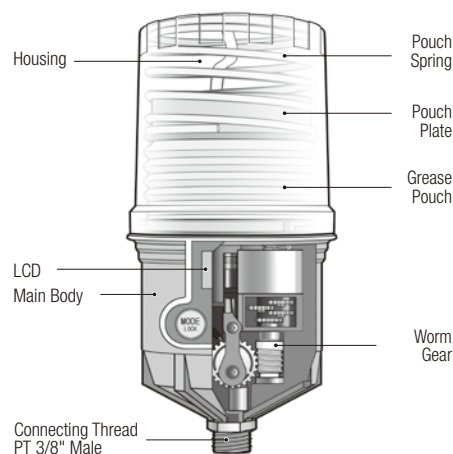
IP Code

IP54

Product Certifications

CE

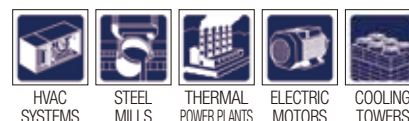
Cross Section



Product Dimension

M60, M125 : Ø91(3.60") x 181mm (7.13") (H)
M250 : Ø91(3.60") x 210mm (8.27") (H)
M500 : Ø92(3.62") x 260mm (10.23") (H)

Applications



Service Packs

Substantial Cost Saving

Pulsarlube electromechanical lubricators are reusable and bring the cost saving benefits to the customers with the use of a replacement kit, Service Pack.

Service Pack consists of

A grease pouch of selectable lubricant type in various volumes

An OEM battery pack :

DC 4.5V Alkaline battery pack (standard) or DC 4.5V Lithium battery pack

* Note : A battery pack is not included in the MSP and PLC service packs

A disposable dust cover :





PVC dust cover (standard) or U/V protection dust cover

* Note : A dust cover is not included in the PLC service packs

Warning

The grease pouch and battery pack must always be replaced together at the end of each lubrication cycle to ensure reliable operation and guaranteed performance of the lubricator.

Service Pack Sizes (Grease Pouch Capacity)

60ml	120~125ml
	
240~250ml	480~500ml
	

Battery Pack Selection Guide

Applications	Alkaline Battery Pack (Standard)	Lithium Battery Pack (Optional)
Direct Mount	OK	OK
Operating Temp Range	-15°C ~ 60°C (5°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)
Programming	Up to 12 months	Up to 24 months
Remote Installation	3m (10ft) or less on a single line	Up to 6m (20ft) per line
Multi-Point Lubrication	OK	Recommended
500ml Grease Pouch	OK	Recommended

Explosion-Proof Electromechanical lubricator specifically designed for hazardous areas where **Class I, Division II, Group C & D** certification is required.



EEx nL IIB T5



Ex nL IIB T5 IP54
12-KB2BO-0279X

IP54



Pulsarlube EX

Specifically Designed for Hazardous Areas

The Pulsarlube EX is specially engineered to meet requirements for use in hazardous areas and to ensure safe and reliable lubrication solutions to your valuable equipment.

Features & Benefits



Easy to check LCD displays with backlight function



Specifically designed for places where Class I, Division II, Group C & D certifications are required



Auto Lock Out mode to prevent unintentional mode changes



Substantial savings with the use of replaceable grease pouches and battery packs



* For replacement kit information, please refer to Service Pack on Page 15

Specifications

Grease Pouch Capacity

125ml/250ml (replaceable)

Power Supply

DC 4.5V Battery Pack

Operating Pressure

Max. 15bar (218psi)

Operating Temperature

-15°C~60°C (5°F~140°F)

Dispensing Periods

1, 2, 3, 6, 12 month & H (15 days)

Remote Installation

Max. 3m (10ft) with O.D. Ø6 tube (Direct mount is preferable)

Multi-Point Installation

N/A

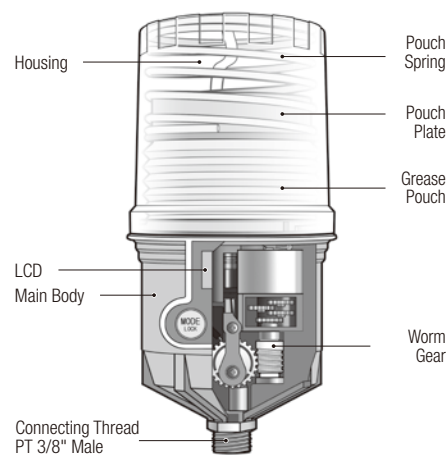
IP Code

IP54

Product Certifications

ATEX, KCs, UL, CE

Cross Section



Product Dimension

EX125 : Ø91(3.60") x 181mm (7.13") (H)
EX250 : Ø91(3.60") x 210mm (8.27") (H)

Applications



PETROCHEMICAL
PLANTS

NUCLEAR
POWER PLANTS

OIL & GAS

THERMAL
POWER PLANTS

ELECTRIC
MOTORS

Most advanced Explosion-Proof electromechanical lubricator
specifically designed for highly **hazardous area** containing flammable
medium.



II 3 G Ex ic IIC T5/T4 Gc
DEKRA 17ATEX0012X



Ex ic IIC T5/T4
17-KA2B0-0115X

IECEx

Ex ic IIC T5/T4 Gc
IECEx KTL 17.0001X



Ex ic IIC T5/T4 Gc
NEPSI GYJ17.1038X



單點式自動注油機 (PulsarLube EXP)
EXP60
Ex ic IIC T5/T4 Gc
容許電壓 : 4.5 Vdc
TD040272
KLT Co. Ltd

CE IP65



II 3 G Ex ic IIC T4 Gc
DEKRA 17ATEX0012X



Ex ic IIB T4
18-KA2B0-0463X

IECEx

Ex ic IIB T4 Gc
IECEx KTL17.0001X



Ex ic IIC T4 Gc
NEPSI GYJ17.1038X



Class I, Division 2, Groups A, B, C, & D, T4
Class II, Division 2, Groups E, F, G, T4
-18°C ≤ Tamb ≤ 54°C (Alkaline batteries)
-30°C ≤ Tamb ≤ 50°C (Lithium batteries)
Conforms to UL Std. 121201
Cert. to CSA Std. C22.2 NO. 213

CE IP65



Pulsarlube EXP/EXPL

Advanced Explosion Proof Capacity

The Pulsarlube EXP/EXPL is a specifically designed electromechanical lubricator for the exclusive use in all applications where the explosion-proof certified devices must be used under all explosive gases or dusts existing environments.

Features & Benefits



Easy to check LCD displays with backlight function



The Industry's first highest explosion-proof certified lubricator designed for safe use in the area classified as danger zone



The best operating pressure (60bar) among existing explosion proof single point automatic lubricator



Substantial savings with the use of replaceable grease pouches and battery packs



* For replacement kit information, please refer to Service Pack on Page15

Specifications

Grease Pouch Capacity

60ml/120ml/240ml/480ml (pre-set)

Power Supply

DC 4.5V Battery Pack (replaceable)
Standard : Alkaline Battery
Optional : Lithium Battery

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

EXP : 0°C~50°C
EXPL : -15°C~50°C

Dispensing Periods

60ml : 1~12 month
120ml~480ml :
1, 2, 3, 6, 9, 12 month

Remote Installation

Max. 6m (20ft) with Ø6 tube

Multi-Point Installation

Lithium Battery :
Max. 3m (10ft) with Ø6 tube
(Up to 8 lube points)

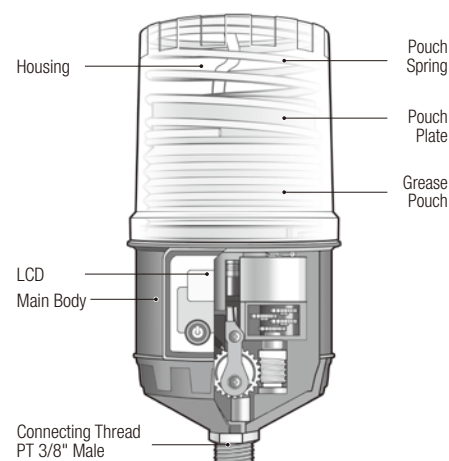
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IP65

Product Certifications

EXP : ATEX, KCs, IECEx,
NEPSI, TS, CE
EXPL : ATEX, KCs, IECEx,
NEPSI, ETL, CE

Cross Section



Connecting Thread
PT 3/8" Male

Product Dimension

EXP/EXPL60, EXP/EXPL120 : Ø91(3.60") x 181mm(7.13") (H)
EXP/EXPL240 : Ø91(3.60") x 208mm(8.19") (H)
EXP/EXPL480 : Ø92(3.62") x 260mm(10.23") (H)

Applications



PETROCHEMICAL PLANTS NUCLEAR POWER PLANTS OIL & GAS THERMAL POWER PLANTS ELECTRIC MOTORS

Pulsarlube MS/MSP

Machine Synchronized

The Pulsarlube MS/MSP units offer the advantage of providing automatic lubrication to machinery that is infrequently or intermittently used by synchronizing itself to the equipment, thereby avoiding the problem of over lubrication.



* For replacement kit information, please refer to Service Pack on Page15

Features & Benefits

Synchronized	Dispenses a preset amount of lubricant only when equipment is in operation which prevents over lubrication
30bar	Up to 8 lube points for multi-point / Max. 10m (33ft) for single point
LCD	Easy to program with built-in LCD and simple button controls
Service Pack	Substantial savings with the use of replaceable grease pouches and battery packs

Specifications

Grease Pouch Capacity

60ml/125ml/250ml/500ml (replaceable)

Power Supply

MS : DC 4.5V Battery Pack
MSP : External Power Supply

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

Standard Alkaline Battery :
-15°C~60°C (5°F~140°F)
Optional Lithium Battery :
-40°C~60°C (-40°F~140°F)

Dispensing Periods

60ml : 1~12 month
125ml/250ml : 1, 2, 3, 6, 12 month & H (15 days)
500ml : 1, 2, 4, 6, 12, 18, 24 month & H (15 days)

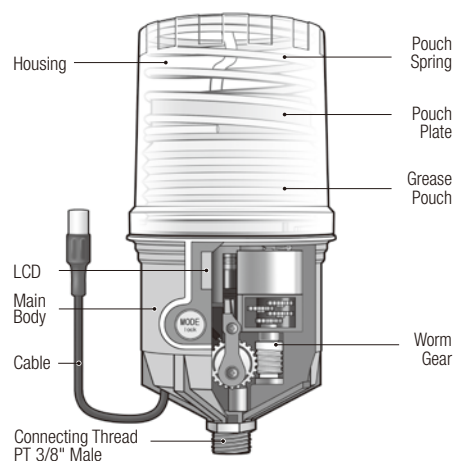
Remote Installation

Max. 10m (33ft) with
O.D. Ø6 tube

Multi-Point Installation

Max. 6m (20ft) with O.D. Ø6 tube
(Up to 8 lube points)

Cross Section



Product Dimension

MS60, MS125 (MSP60, MSP125) : Ø91(3.60") x 181mm(7.13") (H)
MS250 (MSP250) : Ø91(3.60") x 210mm(8.27") (H)
MS500 (MSP500) : Ø92(3.62") x 260mm(10.23") (H)

Applications



MS/MSP Product Selection

The MS and MSP units both synchronize to machinery but are engineered differently in order to meet customer's specifications for their equipment. The MS unit turns On or Off through a relay box in accordance with the related equipment power signal. The MSP unit connects with a power supply (VAC or VDC) connected to the electric control panel.



Pulsarlube MS

Uses a battery pack as its power source.

MS+Relay Box+Service Pack

- * Battery pack has to be replaced along with grease pouch.
- * MS unit is not external powered unit.



Pulsarlube MSP

Uses external power as its power source.

MSP+Relay Adapter (VAC or VDC)+Service Pack

- * An initial battery pack is included in the MSP as a backup power source and to store data. The battery pack in the MSP does not need to be replaced for up to 5 years.
- * MSP is also available in oiler (MSP-OL500).

MS Relay / MSP Power Supply Specification

	MS	MSP	
	Relay	VAC	VDC
Voltage Rate Input Range	AC100~480V, 0.5W/50~60Hz	100~220V	12~24V
Voltage Rate Output Range	Signal (Open collector type)	5.0V, 2A	
Power ON Indicator	Red LED on Relay Box or Power Supply		
Relay Box Dimensions	85mm (D) × 49mm (W) × 32mm (H)		
Wire Length	To Lubricator : 90mm Relay Box/Power Supply : Input - 1m (3.3ft), Output - 4m (13ft)		

* For ordering instructions, please refer to "How to Order" on page 33

Bluetooth-enabled electromechanical lubricator controlled conveniently using the Pulsarlube mobile APP.



Pulsarlube BT

Advanced Convenience

The Pulsarlube BT is Bluetooth-enabled electromechanical lubricator for enhanced user-friendliness using the Pulsarlube mobile App.

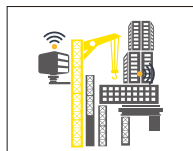
Features & Benefits



Real-time pairing between mobile device and lubricator



Easily share DB between mobile device and server



Remotely monitor lubricator status in hazardous and inaccessible work areas via mobile App in close proximity



Substantial savings with the use of replaceable grease pouches and battery packs



* For replacement kit information, please refer to Service Pack on Page 15

Specifications

Grease Pouch Capacity

60ml/120ml/240ml (pre-set)

Power Supply

DC 4.5V Battery Pack (replaceable)

Standard : Alkaline Battery

Optional : Lithium Battery

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

Standard Alkaline Battery :

-5°C ~ 60°C (23°F ~ 140°F)

Optional Lithium Battery :

-20°C ~ 60°C (-4°F ~ 140°F)

Dispensing Periods

1~12 month

Remote Installation

Max. 6m (20ft) with Ø6 tube

Multi-Point Installation

Max. 3m (10ft) with Ø6 tube
(Up to 8 lube points)

Detection Range

5 ~ 20m (16.4ft ~ 65.6ft)
depending on installation environment

Bluetooth Specification

Bluetooth 4.1 (class 2)

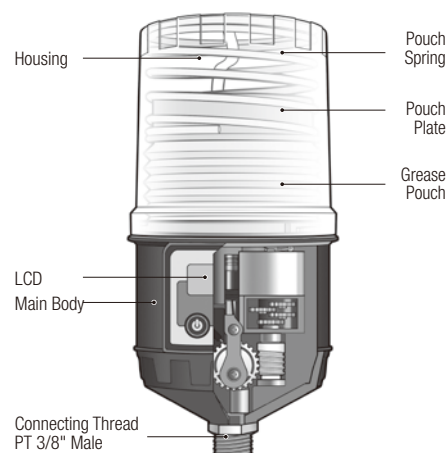
IP Code

IP65

Product Certifications

CE, KC, FCC

Cross Section



Product Dimension
BT60, BT120 : Ø91(3.60") x 181mm(7.13") (H)
BT240 : Ø91(3.60") x 208mm(8.19") (H)

Applications



PETROCHEMICAL
PLANTS



CLEAN
ROOMS



HVAC
SYSTEMS



ELECTRIC
MOTORS



COOLING
TOWERS

Pulsarlube Mi

Synchronized Lubricator with an Intelligent Vibration Sensor

The Pulsarlube Mi operates only when vibration is detected on the installed application.



- * For replacement kit information, please refer to Service Pack on Page 15
- * For more information on installation, please refer to the website

Features & Benefits

Vibration Sensor	Vibration sensor allows the unit to lubricate only when the application is operating
No Wire	No need for external electric wiring to motors or other power cables
Service Pack	Substantial savings with the use of replaceable grease pouches and battery packs
Simple & Precise	Simple to operate & dispenses precise amounts of lubricant reliably

Specifications

Grease Pouch Capacity

60ml/125ml/250ml
(replaceable)

Power Supply

DC 4.5V Battery Pack

Operating Pressure

30~60bar (435~870psi)

Operating Temperature

Standard Alkaline Battery :
-15°C~60°C (5°F~140°F)
Optional Lithium Battery :
-40°C~60°C (-40°F~140°F)

Dispensing Periods

1~12 month

Remote Installation

Max. 1m (3.3ft) with O.D. Ø6 tube

Multi-Point Installation

Max. 1m (3.3ft) with O.D. Ø6 tube
(Up to 2 lube points)

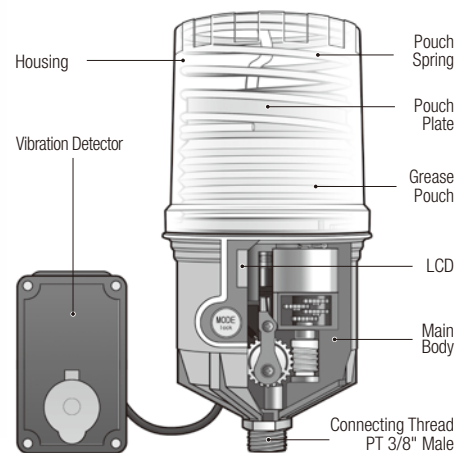
Vibration Detector

- Piezoelectric Cantilever-type Film Sensor
- Adjustable Sensitivity Range

Wire Length

- To Lubricator : 150mm (0.5ft)
- Sensor Cable : 1.2m (4ft)

Cross Section



Product Dimension

Mi60, Mi125: Ø91(3.60") x 181mm(7.13") (H)
Mi250 : Ø91(3.60") x 208mm(8.19") (H)

Applications



Pulsarlube PLC

PLC Controlled & Remotely Monitored & High Performance

The Pulsarlube PLC is specially designed to be fully integrated with a PLC system and offered in two types; MONTH and INTERVAL type.



- * For replacement kit information, please refer to Service Pack on Page 15
- * For more information on installation, please refer to the website

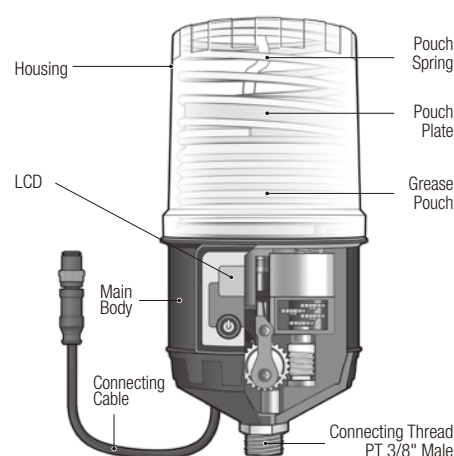
Features & Benefits

PLC Control	Programmed to deliver fresh lubricant upon receiving a signal from the PLC
Communication	In case of any warning messages, the unit sends out a signal to an external alarm
Convenient	Both NPN and PNP connections are available
2 Types	MON type dispenses at predetermined intervals and rates depending on the monthly setting selected INT type dispenses on command when a signal is received from the PLC, at the rate selected by the user

Specifications

Grease Pouch Capacity 60ml/120ml/240ml/480ml (pre-set)	Remote Installation Max. 10m (33ft) with O.D. Ø6 tube
Power Supply External Power Supply	Multi-Point Installation Max. 6m (20ft) with O.D. Ø6 tube (Up to 8 lube points)
Operating Pressure 30~60bar (435~870psi)	Product Certifications CE, KC
Operating Temperature -20°C~60°C (-4°F~140°F)	1 Per Stroke(@20°C) MONTH type : 0.34ml / Stroke (@20°C) INTERVAL type : 0.34ml x Mode selected (@20°C)
Dispensing Periods MONTH type : 1~12 month INTERVAL type : 1, 2, 3...6 Mode	Wire Length • To Lubricator : 150mm (0.5ft) • Extra connecting wires available for Purchase

Cross Section



Product Dimension

PLC60, PLC125: Ø91(3.60") x 181mm (7.13") (H)
PLC240: Ø91(3.60") x 208mm (8.19") (H)
PLC480: Ø92(3.62") x 260mm (10.23") (H)

Applications



Pulsarlube OL500

Compatible with a Wide Range of Oil Viscosity

The Pulsarlube OL500 is specifically designed to deliver a fresh, consistent, and precise amount of oil to all of the vital parts of your rotating equipment.



* For more information on installation, please refer to the website

Features & Benefits

10bar	Can lubricate up to 4 lube points, Max. 6m (20ft) per point
Accessory Kit	Applicable Oil / Able to handle a wide range of oil viscosity
LCD	Easy to program with built-in LCD and simple button controls
Easy Refill	Refillable oil reservoir

Specifications

Oil Reservoir Capacity

500ml (refillable)

Power Supply

DC 4.5V Battery Pack

Operating Pressure

10bar (145psi)
(depends on oil viscosity)

Operating Temperature

Standard Alkaline Battery :
-15°C~60°C (5°F~140°F)

Dispensing Periods

1, 2, 4, 6, 12, 18, 24 month & H (15 days)

Remote Installation

Max. 6m (20ft) with O.D. Ø4 tube

Multi-Point Installation

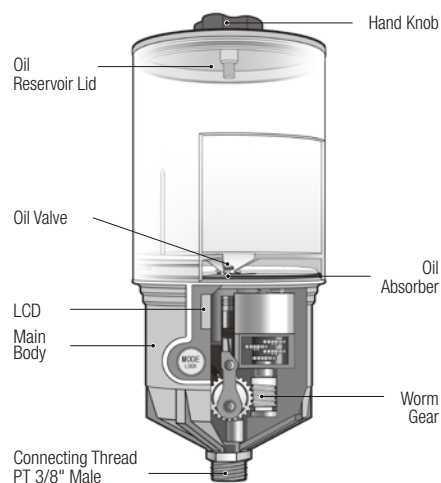
Max. 3m (10ft) with O.D. Ø4 tube
(Up to 4 lube points)

Oil Viscosity Range

100~10,000 cSt@40°C

* Special instructions available
for 10~100 cSt@40°C

Cross Section



Product Dimension

OL500 : Ø94 mm (3.70") x 229 mm (9.02") (H)

Applications



ESCALATORS WIRE ROPES CHAINS

Pulsarlube E0

Highly Cost Effective Gas Type Oiler

The Pulsarlube E0 is a low-cost oil lubrication solution which utilizes a non-return valve (NRV) to allow reliable lubrication minimizing oil leak.



* For more information on installation, please refer to the website

Features & Benefits

NRV	Specially designed non-return valve (NRV) allows the unit to be installed in any position minimizing oil leak
Compact Design	Compact size is convenient for use in confined spaces
Durability	Engineered to withstand high vibration
Eco-Friendly	The components of Pulsarlube E0 can be disposed and recycled separately conforming to local regulations

Specifications

Oil Reservoir Capacity

60ml/120ml/240ml
(disposable)

Power Supply

Electrochemical reaction
(Nitrogen gas)

Operating Pressure

Max. 5bar (73psi)

Operating Temperature

-20°C~55°C (-4°F~131°F)

Dispensing Periods

1, 3, 6, 9, 12 month

Remote Installation

Max. 3m (10ft) with O.D. Ø4 tube

Multi-Point Installation

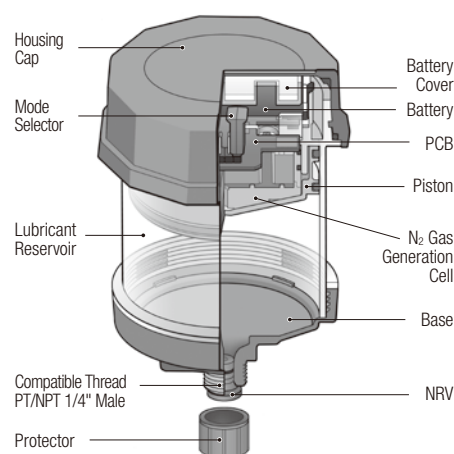
N/A

Oil Viscosity Range

100~10,000 cSt@40°C

* Special instructions available
for 10~100 cSt@40°C

Cross Section



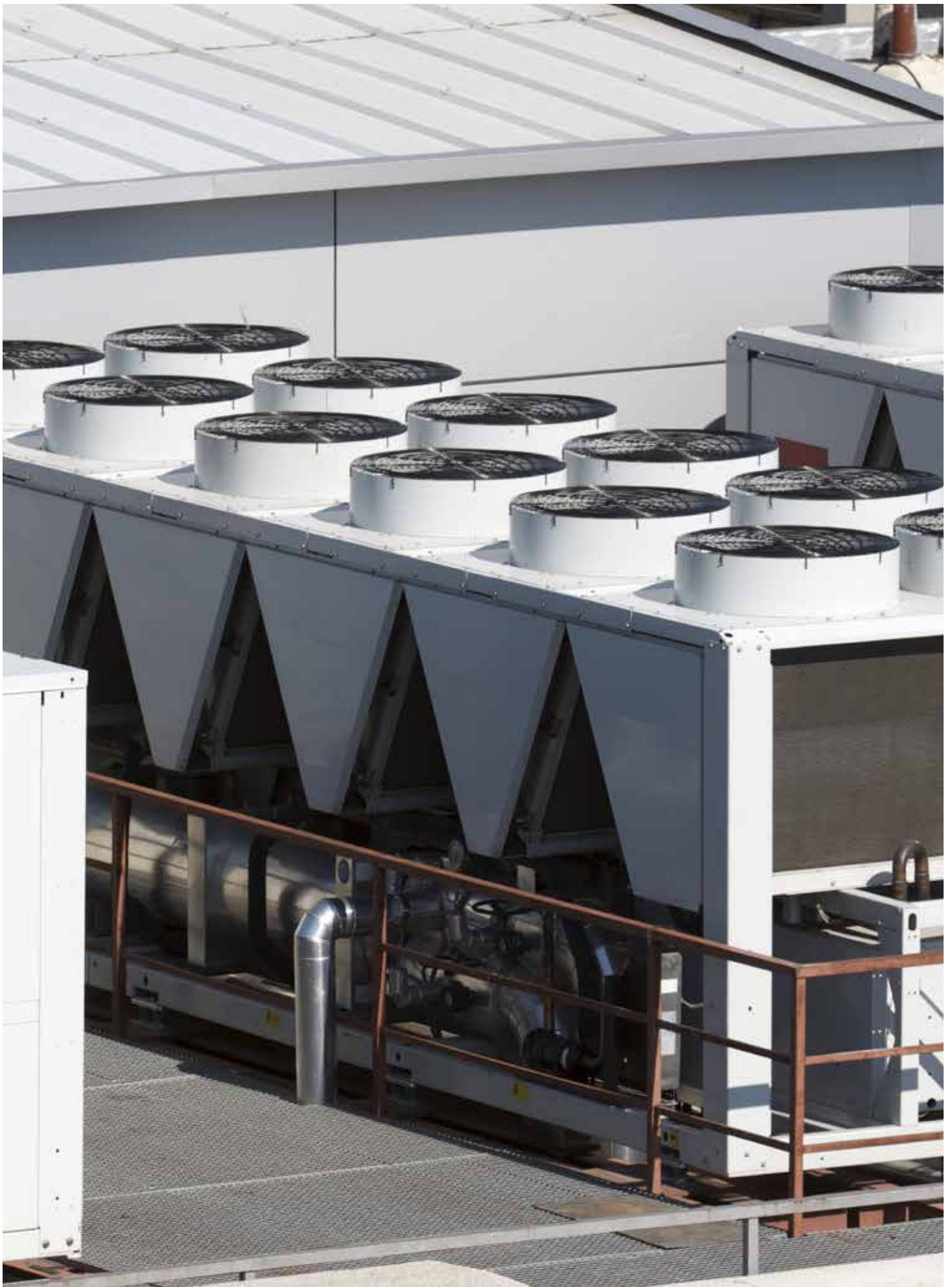
Product Dimension

E060 : Ø77mm (3.03") x 91mm (3.58") (H)
E0120 : Ø77mm (3.03") x 111mm (4.37") (H)
E0240 : Ø77mm (3.03") x 156mm (6.14") (H)

Applications



ESCALATORS WIRE ROPES CHAINS



Pulsarlube S

Unique and Ingenious Design

The Pulsarlube S is an advanced spring type lubricator operates with the spring at the bottom and an upward piston movement, which dramatically reduces the effects of oil separation that have plagued traditional spring type lubricators.



Specifications

Grease Pouch Capacity

100ml (refillable)

Remote Installation

N/A

Power Supply

Spring

Multi-Point Installation

N/A

Operating Pressure

N/A

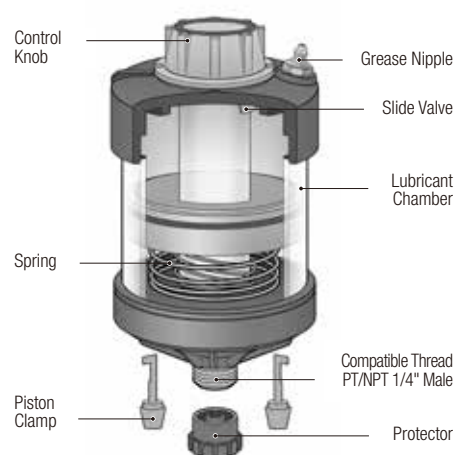
Operating Temperature

-23°C~121°C (-9°F~250°F)

Dispensing Periods

5 Dial Settings

Cross Section


Product Dimension

S100 : Ø67mm (2.64") x 129mm (5.08") (H)

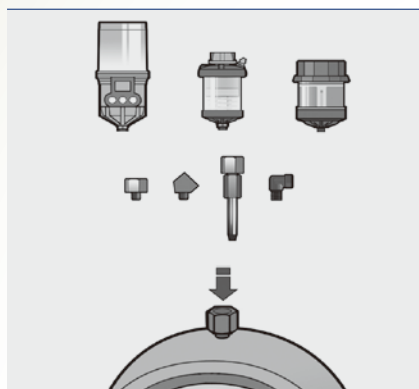
Features & Benefits

Design	The upward piston movement reduces oil separation and the possibility of grease hardening
Control Knob	Grease dispensing rate can be easily controlled by using the control knob
Reuse	Easy to refill grease on site using grease nipple
Pre-Filled	Available pre-filled due to strategically placed piston clamps

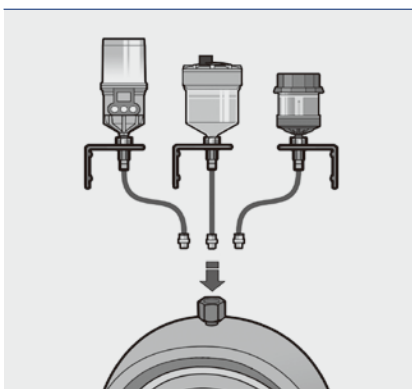
Applications



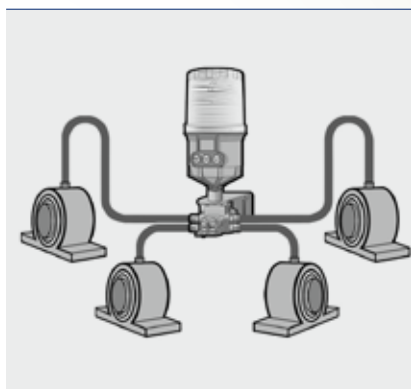
Pulsarlube Installation Options



Direct Mount



Single Point Remote Installation



Multi-Point Installation

Direct Mount

Prior to installing your lubricator, please refer to our full accessories list on the website to order a necessary part for your application.

Reducer	Socket	45° Elbow	90° Elbow	Pipe
				

Single Remote & Multi-Point Installation

Most used installation parts that are necessary to install Pulsarlube lubricators/oilers are packaged in a single assembly kit for your convenience. The kits are designed to meet all relevant standards. Please refer to the complete assembly kits chart below to order a right kit for right application. If further assistance required, contact your local dealer or distributor.

Installation Kits Part No.		Gas type Lubricator		Mechanical Lubricator
		E	V	M, EXP/EXPL, MS&MSP, BT, Mi, PLC
Single Point Kit	Single Point	2000RC-1	1000RC-1	1250RC-1
Multi-Point Kit	2 Point	–	–	1250MD-2
	3 Point	–	–	1250MD-3
	4 Point	–	–	1250MD-4
	5 Point	–	–	1250MD-5
	6 Point	–	–	1250MD-6
	7 Point	–	–	1250MD-7
	8 Point	–	–	1250MD-8

Application Solutions

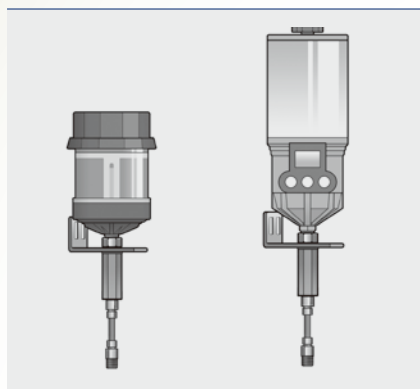


Installation Kits & Accessories for Grease Lubrication

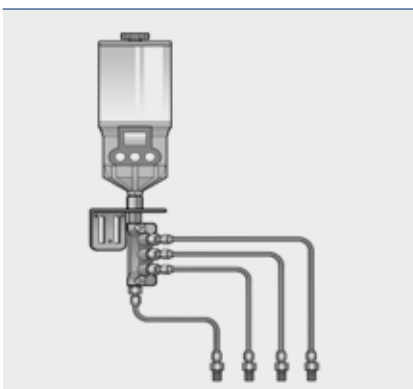


No.	Part No.	Specifications	Single Point			Multi-Point						
			2000 RC-1	1000 RC-1	1250 RC-1	1250 MD-2	1250 MD-3	1250 MD-4	1250 MD-5	1250 MD-6	1250 MD-7	1250 MD-8
1	A002	Reducer, 3/8"F x 1/8"M Adaptor (Brass)		●	●	●	●	●	●	●	●	●
2	A005	Reducer, 1/4"F x 1/8" M Adaptor (Brass)	●									
3	B002	Mounting Bracket, "L" Shape	●	●	●	●	●	●	●	●	●	●
4	B051	Self Drilling Screw, #8 x 20	●	●	●	●	●	●	●	●	●	●
5	HU-2RS	HU-2RS, Grease Type, 2 Ports				●						
	HU-3RS	HU-3RS, Grease Type, 3 Ports					●					
	HU-4RS	HU-4RS, Grease Type, 4 Ports						●				
	HU-5RS	HU-5RS, Grease Type, 5 Ports							●			
	HU-6RS	HU-6RS, Grease Type, 6 Ports								●		
	HU-7RS	HU-7RS, Grease Type, 7 Ports									●	
	HU-8RS	HU-8RS, Grease Type, 8 Ports										●
6	B057	Washer	●	●	●							
7	B058	Tooth Washer				●	●	●	●	●	●	●
8	A012	Socket, 1/8"F x 1/8"F Adaptor (Brass)	●	●	●							
9	A239	Tube Fitting, Push-In Type, PC8-PT1/8"M	●	●								
10	A240	Tube Fitting, Push-In Type, PC6-PT1/8"M			●	●	●	●	●	●	●	●
11	A214-1	Distribution Tubing, O.D. 1/4"(6mm) Nylon Tubing, 10ft Pre-filled with (Grease Type)			●	●	●	●	●	●	●	●
12	A212-1	Distribution Tubing, O.D. 5/16"(8mm) Urethan Tubing, 3ft Pre-filled with (Grease Type)	●	●								
13	A243	Thread Converter, PT1/8"F X NPT1/8"M (Brass) (USA only)	●	●	●	●	●	●	●	●	●	●

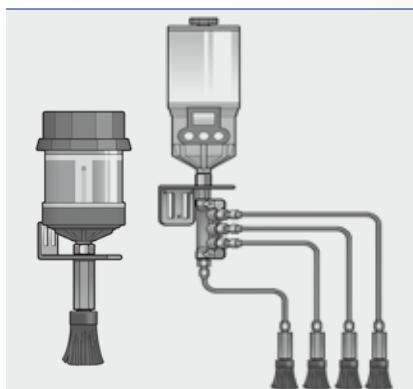
Pulsarlube Oiler Installation Options



Single Point Installation for Oilers



Multi-Point Installation for Oilers



Brush Kits for Oilers

Installation Kits Part No.		Gas type Oiler	Mechanical Oiler
		E0	OL
Single Point Kit	Single Point	C035	1250R0-1
Multi-Point Kit	2 Point	–	1250R0-2
	3 Point	–	1250R0-3
	4 Point	–	1250R0-4
Brush Kit	Flat Nylon Brush	C036	C030
	Round Nylon Brush	C037	C031
	Flat Steel Brush	C038	C032
	Round Steel Brush	C039	C033

1



2



3



4



5



6



7



8



9



10



11



12



13



14



15



16



17



18



19



20



21



22



23



Application Solutions



Installation Kits & Accessories for Oil Lubrication

No.	Part No.	Specifications	Single Point		Multi-Point		
			C035	1250R0-1	1250R0-2	1250R0-3	1250R0-4
1	A002	Reducer, 3/8"F x 1/8"M Adaptor (Brass)		●	●	●	●
2	A005	Reducer, 1/4"F x 1/8"M Adaptor (Brass)	●				
3	A012	Socket, 1/8"F x 1/8"F Adaptor	●	●			
5	C004-1	Resistance Valve, #1 Distributor Spray (one-touch type)			●	●	●
6	C006	Reducer, PT 1/8"F x M8 x 1P			●	●	●
7	C007	Tube Fitting, Dia. 4mm x PT1/8"M	●	●	●	●	●
8	B002	Mounting Bracket, "L" Shape	●	●	●	●	●
10	B051	Self Drilling Screw, #8 x 20	●	●	●	●	●
11	C009	Sleeve Ring, Dia. 4mm	●	●	●	●	●
12	C011	Insert, Dia. 4mm x 2.5mm	●	●	●	●	●
13	C010	Tube Clamp, Dia. 4mm x 1R	●	●	●	●	●
14	B057	Washer	●	●	●	●	●
16	C003-1	Distributor, 3 (1P) M8 x 1P			●		
17	C003-2	Distributor, 4 (2P) M8 x 1P				●	
18	C003-3	Distributor, 5 (3P) M8 x 1P					●
19	C021-1 ~ C021-4	O.D. 4mm Nylon Tubing (Clear), 10ft (3m) ~ 40ft (12m)	●	●	●	●	●
-	Cable Tie		●	●	●	●	●

No.	Part No.	Specifications	EO Brush Kit				OL Brush Kit			
			C036	C037	C038	C039	C030	C031	C032	C033
1	A002	Reducer, 3/8"F x 1/8"M Adaptor (Brass)					●	●	●	●
2	A005	Reducer, 1/4"F x 1/8"M Adaptor (Brass)	●	●	●	●				
4	C012	Socket, PT1/8"F x NPT1/8"F	●	●	●	●	●	●	●	●
9	B003	Oil Brush Bracket, "L"Shape	●	●	●	●	●	●	●	●
10	B051	Self Drilling Screw, #8 x 20	●	●	●	●	●	●	●	●
14	B057	Washer	●	●	●	●	●	●	●	●
15	B058	Tooth Washer	●	●	●	●	●	●	●	●
20	C013	Oil Brush, 2" Flat Stainless Steel, NPT1/8"M			●				●	
21	C014	Oil Brush, 1" Round Stainless Steel, NPT1/8"M				●				●
22	C001	Oil Brush, 2" Flat Nylon, NPT1/8"M	●				●			
23	C002	Oil Brush, 1" Round Nylon, NPT1/8"M		●				●		

Pulsarlube Grease Selection Chart

Pulsarlube standard grease specifications may change due to supplier's demand.
Please check with your local distributor before purchase.

Grease Code	Region	Application	Base Oil	Temperature	NLGI	Thickener	Color
PL1	●	Multi Purpose	Mineral	-20°C~150°C	1.5	Lithium Complex	Yellow
PL2	● ●	Heavy Duty	Mineral	-15°C~170°C	1	Aluminum Complex	Black
	●			-20°C~160°C	2	Lithium Complex	Grey
PL3	●	High Speed	Mineral	-30°C~130°C	1.5	Lithium Complex	Yellowish Brown
PL4	●	H1 Food Grade	Mineral	-40°C~120°C	1	Calcium Sulfonate Complex	White
	● ●			-25°C~170°C	2		
PL5	● ●	High Temperature	Mineral	-15°C~160°C	1	Polyurea	Beige
	●		Fully Synthetic	-40°C~180°C	2	Lithium Complex	Red
PL6	●	Multi Purpose with MoS ₂	Fully Synthetic	-15°C~180°C	1	Polyurea	Yellow
PL7	●	Low Temperature	Fully Synthetic	-45°C~170°C	1	Lithium Complex	Gold
PL8	●	Biodegradable performances	Synthetic	-35°C~120°C	2	Lithium Calcium	Beige
PL10	● ●	Motor Bearing	Mineral+Synthetic	-25°C~150°C	2	Polyurea	Beige

● Pulsarlube USA (North and South America) ● Pulsarlube GmbH (Europe) ● Pulsarlube Asia Pacific (Asia, Oceania, Africa) ● Worldwide

Pulsarlube Thickener Compatibility Chart

	Aluminum Complex	Barium Complex	Calcium Stearate	Calcium 12 Hydroxy	Calcium Complex	Calcium Sulfonate	Clay Non-soap	Lithium Stearate	Lithium 12 Hydroxy	Lithium Complex	Polyurea Conventional	Polyurea Shear Stable
Aluminum Complex		x	x	●	x	▲	x	x	x	●	x	●
Barium Complex	x		x	●	x	●	x	x	x	x	x	▲
Calcium Stearate	x	x		●	x	●	●	●	▲	●	x	●
Calcium 12 Hydroxy	●	●	●		▲	▲	●	●	●	●	x	●
Calcium Complex	x	x	x	▲		x	x	x	x	●	●	●
Calcium Sulfonate	▲	●	●	▲	x		x	▲	▲	●	x	●
Clay Non-soap	x	x	●	●	x	x		x	x	x	x	▲
Lithium Stearate	x	x	●	●	x	▲	x		●	●	x	●
Lithium 12 Hydroxy	x	x	▲	●	x	▲	x	●		●	x	●
Lithium Complex	●	x	●	●	●	●	x	●	●		x	●
Polyurea Conventional	x	x	x	x	●	x	x	x	x	x		●
Polyurea Shear Stable	●	▲	●	●	●	●	▲	●	●	●	●	

▲ Test required ● Compatible x Incompatible

Pulsarlube Installation Chart

● Recommended △ To be decided after inspection

Installation Types	Installation Conditions & Checkpoints	Lubricator Type											
		Spring	Electrochemical			Electromechanical			Advanced Features			Oiler	
		S	E	V	M	EX	EXP/EXPL	MS/MSP	BT	Mi	PLC	OL500	EO
Before Installation	Select a proper location convenient for operation / replacement	●	●	●	●	●	●	●	●	●	●	●	●
	Check the thread size (1/4", 3/8") of the grease inlet	●	●	●	●	●	●	●	●	●	●	●	●
Direct Installation	Heavy dust or particle contamination	●	●	●	●	●	●	●	●	●	●	●	●
	Low backpressure	●	●	●	●	●	●	●	●	●	●	●	●
	High vibration (A dampener should be applied for high vibration conditions)	●	●		●	●	●	●	●	●	●	●	●
	Moisture and water (Check the IP rating on each model)	●	●	●	△	△	●	△	●	△	●	△	●
	High backpressure				●	△	●	●	●	●	●	●	
	Confined areas	●	●										●
Remote Installation	High temperature areas (Maximum ambient temperatures of 55°C or under)		△		●	●	●	●	●	●	●	●	△
	High vibration		●		●	●	●	●	●	●	●	●	●
	Confined areas				●	●	●	●	●	●	●	●	
	Long distance from lube point (over 1m)				●	△	●	●	●	●	●	●	
Multi-Point Installation	Short distance from lube point				●		●	●	●	●	●	●	
	Multiple lube points gathered in limited spaces				●		●	●	●	●	●	●	
Machine Synchronized Application	Lubrication must be applied whenever machine operates							●		●	●		
	Machine operates with extended downtimes							●		●	●		
	HVAC & other machines that may be controlled by temperature changes							●		●	●		
	Machine is a fire risk hazard due to overheating/ over-lubrication							●		●	●		
Check Points	<ul style="list-style-type: none">• Please check compatibility between the grease previously used and the grease contained in the Pulsarlube lubricator.• The tubing and/or fittings should be filled with the same or a compatible grease as is contained in the lubricator.• Please check that fitting connections are tight and that the bearing passageway is clear before installation.• Units installed with 45° & 90° elbow adapters in confined areas should be handled and replaced with care.• Do not install units in areas where they may fall and cause injuries.• Take into consideration tube length, tube ID, and backpressure on the lube point for remote installation.• For the optimal results in multi-point installation, please consider the following:<ul style="list-style-type: none">① Backpressure from tube ② Backpressure from divider block ③ Backpressure from bearing④ Operating pressure (①+②+③) ⑤ NLGI#1 grease is recommended ⑥ Maximum 8 points⑦ Regular check-ups required for dispensing conditions if using a divider block or oil distributor• Before installing products with advanced features (MS, MSP, BT, Mi, PLC), please refer to the user manuals and follow the instructions carefully.												

Pulsarlube Dispensing Recommendations

Below are some general guidelines for bearing lubrication requirements. Testing is recommended for specific applications. Please contact your local distributor should you need any assistance in setting proper dispensing rates.

Dispensing Cycle Chart

<div> <div>ml</div> <div>Mode/ Month</div> </div>	60ml		125ml		250ml		500ml	
	Hours	Cycles/Day	Hours	Cycles/Day	Hours	Cycles/Day	Hours	Cycles/Day
1/2	–	–	1 hours	24	30 minutes	48	15 minutes	96
1	4 hours	6	2 hours	12	1 hours	24	30 minutes	48
2	8 hours	3	4 hours	6	2 hours	12	1 hours	24
3	12 hours	2	6 hours	4	3 hours	8	–	–
4	16 hours	1.5	–	–	–	–	2 hours	12
5	20 hours	1.2	–	–	–	–	–	–
6	24 hours	1	12 hours	2	6 hours	4	3 hours	8
7	28 hours	0.86	–	–	–	–	–	–
8	32 hours	0.75	–	–	–	–	–	–
9	36 hours	0.66	–	–	–	–	–	–
10	40 hours	0.6	–	–	–	–	–	–
11	44 hours	0.54	–	–	–	–	–	–
12	48 hours	0.5	24 hours	1	12 hours	2	6 hours	4
18	–	–	–	–	–	–	9 hours	2.66
24	–	–	–	–	–	–	12 hours	2

Dispensing Mode Selection Chart

Bearing Dimensions	60ml	Dispensing Rate (ml/day)	125ml	Dispensing Rate (ml/day)	250ml	Dispensing Rate (ml/day)	500ml	Dispensing Rate (ml/day)
231mm ~ 330mm	–	–	–	–	–	–	0.5 Month	33.34
171mm ~ 230mm	–	–	–	–	0.5 Month	16.67	1 Month	16.67
101mm ~ 170mm	–	–	0.5 Month	8.33	1 Month	8.33	2 Month	8.33
91mm ~ 100mm	–	–	1 Month	4.17	2 Month	4.17	4 Month	4.17
76mm ~ 90mm	1 ~ 2 Month	1.00 ~ 2.00	2 Month	2.78	3 Month	2.78	6 Month	2.78
66mm ~ 75mm	3 ~ 5 Month	0.40 ~ 0.67	3 Month	1.39	6 Month	1.39	12 Month	1.39
51mm ~ 65mm	6 ~ 8 Month	0.25 ~ 0.33	6 Month	0.70	12 Month	0.70	18 Month	0.90
36mm ~ 50mm	9 ~ 10 Month	0.20 ~ 0.22	12 Month	0.35	–	–	24 Month	0.70
35mm below	11 ~ 12 Month	0.16 ~ 0.18	–	–	–	–	–	–

How To Order

Please follow the steps below when ordering Pulsarlube products. OEM filling is available upon request under special terms and conditions. Please contact your local distributor or Pulsarlube regional sales office for detail information. Certain products may not be available in specific regions.

EX) M125/PL2

Product Grease Capacity Grease Type

Step 1

Step 1 Choose your Pulsarlube product.

Spring	Electrochemical	Electromechanical	Advanced Features	Oiler
S	V, E	M, EX, EXP, EXPL	MS, MSP, BT, Mi, PLC	OL500, EO

Step 2

Step 2 Choose the desired grease capacity.

Product	Capacity
S	100ml
V	125/250ml
E	60/120/240ml
M	60/125/250/500ml
EX	125/250ml
EXP, EXPL	60/120/240/480ml
MS, MSP	60/125/250/500ml
BT	60/120/240ml
Mi	60/125/250ml
PLC	60/120/240/480ml
OL500	500ml
EO	60/120/240ml

Step 3

Step 3 Select the grease type.

PL1	PL2	PL3	PL4	PL5	PL6	PL7	PL10
Multi Purpose	Heavy Duty	High Speed	H1 Food Grade	High Temperature	Multi Purpose with MoS ₂	Low Temperature	Motor Bearing

Additional Features for certain products.

MSP Power Supply	
VAC (AC-DC Adapter)	VDC (DC-DC Converter)

PLC	
1) N : NPN Sensor Type 2) P : PNP Sensor Type	1) INT : Interval Control Type 2) MON : Month Control Type

* When ordering PLC product, please carefully choose from 1) your PLC type + 2) pulsarlube Signal type in order.

EX) MSP125-VDC / PL2 PLC 120 N-INT/PL1

Product Grease Capacity Additional Features Grease Type

Step 1

Step 2

Step 3



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