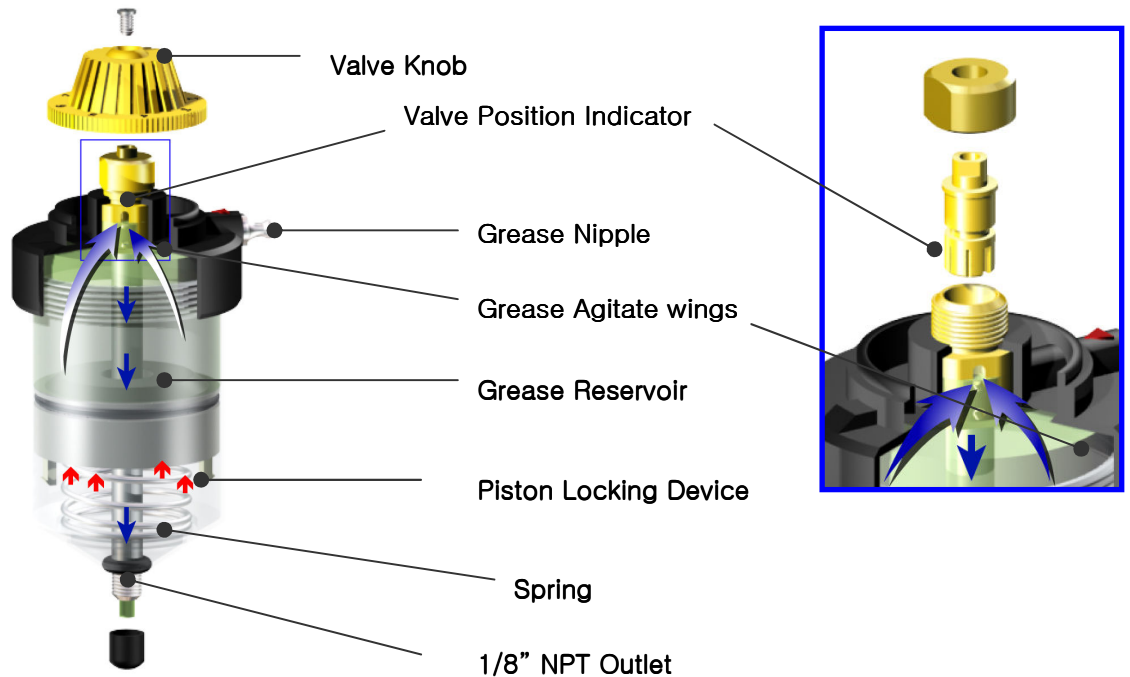


"Upside Down" Who's to say What's impossible Well they forgot This world keeps spinning And with each new day ... I want to turn the whole thing **upside down** I'll find the things they say just can't be found ...

## Pulsarlube S New Concept Spring Type

### 1. Pulsarlube S Operating Principles



Pulsarlube S operates very unique and it designed very scientific.

Spring pushes lubricant upward and maintains it within the lubricator, thereby preventing any oil from dripping out due to gravity. In this reason, grease will be not hardened and all lubricant is able to dispense completely at that end of lubrication cycle.

Conventional type of spring lubricator has a ball valve to control discharging grease, It is really hard to control grease output. Pulsarlube S has a 7 different size of out put hole in side of valve with dial style valve knob It is really good to control accurate grease output.

Moreover, Pulsarlube S has a Piston Locking Device. It will hold piston when unit is stocking or transportation period. Spring force will not effect to grease properties. It is good to prevent oil separation and it allow the to supply grease filled unit in the market. It is one of good advantage to customer because there is no need to fill grease by them also install immediately, no need any other equipment to mount unit on the bearing.

One more thing, there is lubricant agitating wings inside of unit. It will stir so that grease will be not hardened whenever turn the valve knob. It is good to prevent grease hardening in front of grease output hole.

If we will use needle valve at 1/8" outlet to control output, then it will be double control the lubricants output precisely. It makes to able to dispense oil as well.

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## 2. Pulsarlube S Comparisons

Item	Conventional Type	Pulsarlube S	Comparisons
Operating Principles	Spring pushes the grease downward. This causes oil separation and allows oil to drip out of the grease cup, leaving thickener behind. This thickener hardens and <u>prevents</u> thorough lubrication of equipment.	Spring pushes lubricant <u>upward</u> and maintains it within the lubricator, thereby preventing any oil from dripping out due to gravity.	Oil constantly spills out of the conventional unit due to the fact that the spring pushes downward, thereby causing grease hardening, which in turn causes a dispensing problem. <b>Advantage:</b> All lubricant is completely dispensed at that end of lubrication cycle.
Control Valve	No Valve Position Indicator Available.	7 flow rates available through utilization of Valve Position Indicator.	Conventional unit has the <u>disadvantage</u> of not being able to control the flow of lubricant administered to the lubrication point.
Grease	Cannot be supplied with lubricant due to oil separation problem. Once filled, this lubricator empties leaving hardened grease behind. This occurs because of gravity's effect on oil when separated from lubricant.	Can be supplied with or without lubricant!	The Piston locking device holds piston in place on the Pulsarlube S. Spring force will not affect greases properties.
Performance	Does not dispense lubricant effectively due to oil separation	Completely dispenses lubricant due to its innovative design.	Unlike the conventional unit, the Pulsarlube S is capable of completely dispensing lubricant, due to the fact that the Pulsarlube S is not susceptible to thickener hardening.

## 3. Pulsarlube S Advantage

Here are major advantages of using a Pulsarlube S product.

1. Oil separation will not occur while lubricator is in storage.
2. Can be installed immediately (Grease pre-filled unit)
3. Convenient
4. Lubricates much more reliably and effectively
5. Anyone can install & maintain Pulsarlube S
6. Units & dispensing rates to suit all applications

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#### 4. Pulsarlube S Application Point

Pulsarlube S can be used on any equipment that has:

- Ball, Roller Bearings
- Shield Bearings with Seal
- Open Bearings
- Required Bearing flushing action

#### 5. Pulsarlube S Installation Instruction

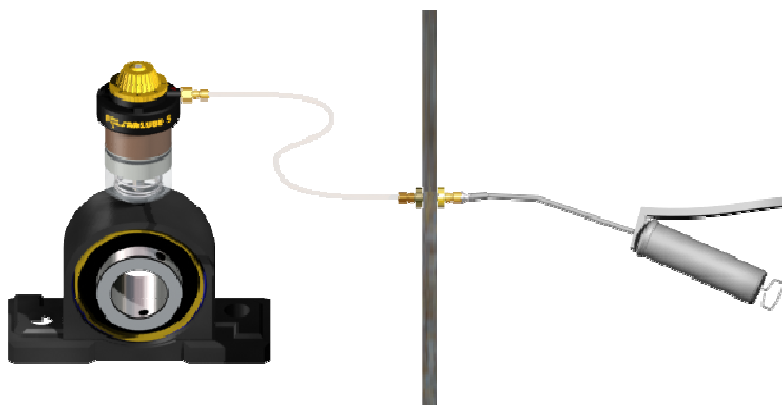
If Pulsarlube S already has filled with grease, Piston Locking device should be released by finger with setting valve position indicator #7, and after confirming grease coming out, set proper valve position# according to valve position selection guide.

If Pulsarlube S need to fill grease, then set valve position "OFF" and fill the grease by grease gun and/or pump thru grease nipple **(Don't fill over capacity because lubricator will be broken)** . and install unit with setting proper valve position.

To mount, screw the Pulsarlube S assembly directly into the grease fitting hole, turn hand tight only. A 45° to 90° adaptor can be used if space is limited. Pulsarlube S units can be mounted vertically, inclined, horizontally or upside down.

#### Remote Grease Refill Kit (Product#: 1500RC)

If plants have hard to reach lubrication sites, 1500 RC Remote Install Kit allows refilling from distances up to 10 feet. 1500RC Remote Install Kit comes complete with all of the required fittings and 10 feet of high pressure hose. Please remember, Pulsarlube S is specifically designed to refill a Pulsarlube S unit, not replace it. The hose should be prefilled prior to hook up to Pulsarlube S unit. Be certain the hose is free of all air bubbles.



#### 6. Pulsarlube S Specification

1. Grease capacity: 120 cc (110 gram)
2. Operate in ambient temp: -10°F ~ 250°F (-23°C ~ 121°C)
3. Outlet thread size: 1/8" NPT

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## 7. Pulsarlube S Valve Position Selection Guide

To select Pulsarlube S unit's valve position, you need to know the bearing shaft diameter and speed, as well as the bearing class.

### Pulsarlube S Valve Position Selection Guide

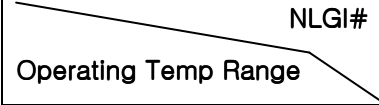
<b>Bearing Shaft Dia</b>	<b>Up to 50mm</b>			
Operating Condition	Intermittent		Continuous	
Bearing Class	Sealed	Opened	Sealed	Opened
Regardless RPM	1	2	3	4
<b>Bearing Shaft Dia</b>	<b>Over 50mm</b>			
Operating Condition	Intermittent		Continuous	
Bearing Class	Sealed	Opened	Sealed	Opened
Under 1000 RPM	3	3	4	4
1000~3000 RPM	5	5	6	6
Over 3000 RPM	7	7	7	7

Remark: Pulsarlube S demand feed unit, not time selectable unit (refill interval is based on the usage each application requires)

## 8. Pulsarlube S Spring Selection Guide

To select proper spring, you need to know the operating temperature and grease NLGI# .

### Pulsarlube S Spring Selection Guide

 NLGI#	NLGI#0	NLGI#1	NLGI#2
Operating Temp Range			
-10°F (-23°C)~40°F (4°C)	Black	Black	Black
40°F (4°C)~100°F (38°C)	Silver	Silver	Black
100°F (38°C)~150°F (66°C)	Silver	Silver	Silver

Silver: Moderate Spring Force, Black: Strong Spring Force

Selection Example: The shaft diameter is over 50mm, shaft speed continuous 2,000RPM, Sealed bearing with NLGI#1 grease under ambient temp 15°C~30°C,

1. Pulsarlube S valve: Select Position # 6.
2. Pulsarlube S spring: Select spring color: Silver color (Moderate) spring

Select Model Number: KLT1500S (Pulsarlube S with silver color spring)

Manufacturer: Pulsarlube USA,Inc

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Pulsarlube USA,Inc.

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