

ISO9001

PULSARLUBE



The New Generation of Single Point Lubricators 250cc



PULSARLUBE U.S.A., INC.

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Operating Principles

PULSARLUBE & **PULSARLUBE V** operate on the principle of inert Nitrogen (N₂) gas generation through the use of an electrolyte and electrical energy. Pressure is generated above a piston and lubricant is dispensed through an outlet at the base of the unit.

PULSARLUBE has a fixed dispensing rate, 1, 2, 3 or 6 month in each unit, while **PULSARLUBE V** has a variable dispensing rate from 1 to 12 month in a single unit and is controlled by a microprocessor to ensure reliable and predictable lubricant delivery.

Uses

PULSARLUBE & **PULSARLUBE V** are designed to dispense a precise, predictable and fresh supply of lubricant in a wide variety of industrial applications. Use **PULSARLUBE** & **PULSARLUBE V** lubricators where:

- Contamination is present and can cause bearing damage.
- Access is limited or difficult.
- Applications are not inspected frequently.
- The environment is wet or corrosive.
- Maintenance costs must be reduced.
- Production output is critical.
- Downtime losses are high.

Adjustment Guidelines

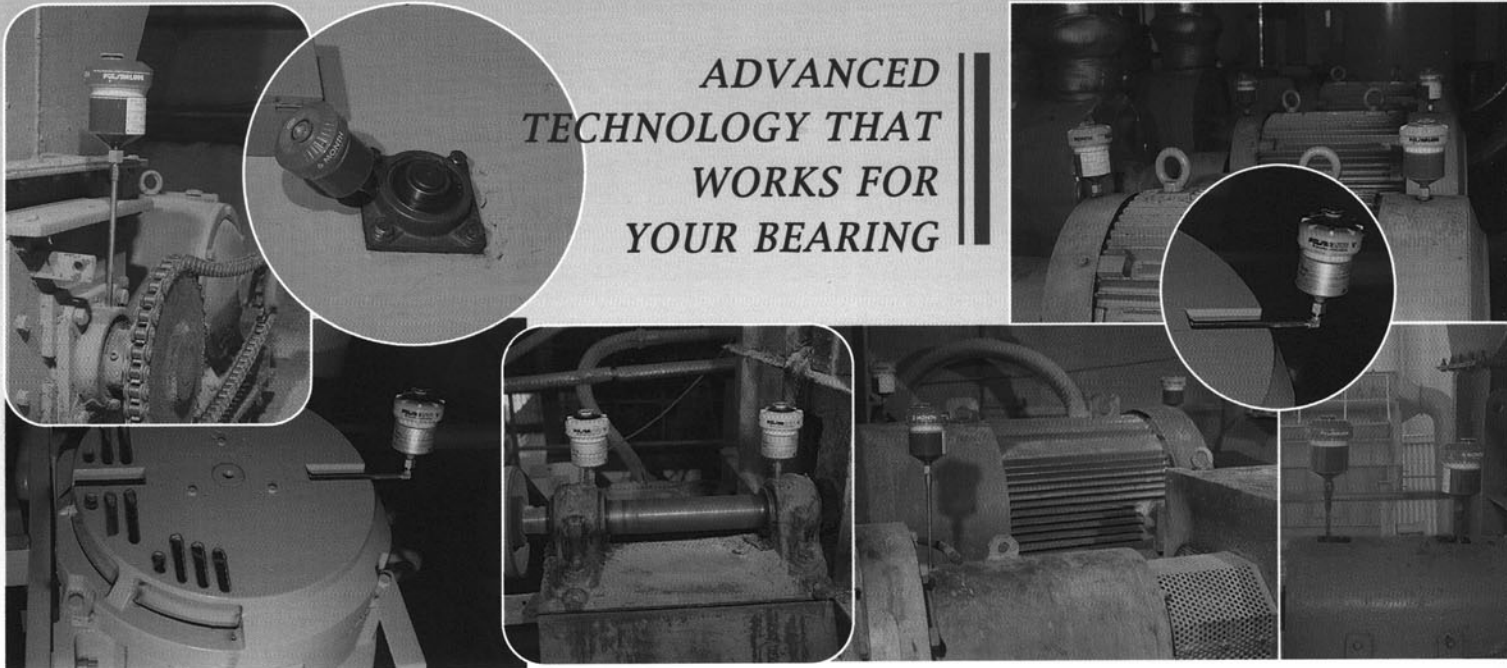
As the unit can be set to dispense different lubricant volumes, adjustment for your application is critical for success. Some guidelines for anti-friction roller bearings are shown as follows:

Ball & Roller Bearings

| Bearing Shaft Diameter | Mode Setting | Mode |
|----------------------------|--------------|-----------------|
| 105-120mm (4-1/8"~ 4-3/4") | 1 Month | OR1 |
| 88-105mm (3-1/2"~ 4-1/8") | 2 Month | GR2 |
| 79-87mm (3-1/8"~ 3-1/2") | 3 Month | RD3 |
| 63-78mm (2-1/2"~ 3") | 6 Month | BL6 |
| 49-62mm (2"~ 2 - 1/2") | 12 Month | VARIABLE |

Actual volume should be determined by observing the condition of the bearing and comparing volume with normal practices. Other applications such as labyrinth seals and electric motors require different lubricant volumes, check with your distributor for recommendations.

**ADVANCED
TECHNOLOGY THAT
WORKS FOR
YOUR BEARING**



Grease Selection Guidelines

| Model | Grease Type | Description |
|------------|------------------|---|
| PL1 | Multi Purpose | High Performance NLGI#2 EP grease for multipurpose applications in low to moderately high temperature or loaded applications. Dark gray colored (contains MoS ₂). |
| PL2 | Heavy Duty | High Performance NLGI#2 EP grease for heavy-duty applications. Dark gray colored (contains MoS ₂). |
| PL3 | High Speed | High Performance NLGI#2 grease specially designed for high-speed applications (above 3,000 rpm). |
| PL4 | Food Grade | USDA H1 rated NLGI#1 High Performance Aluminum Complex grease for food applications. |
| PL5 | High Temperature | Fully synthetic High Performance NLGI#2 grease for extreme temperature applications. |
| PL6 | Multi Purpose | Yellowish colored PL1 for applications where use of dark color grease is not desirable. |

OEM filling is available on demand. For specific terms and conditions, please contact your local distributor or the manufacturer.

Equivalents

| | | | | |
|---|--|--|---|---|
|  <p>OR 1 1 MONTH 8.3cc per day</p> |  <p>GR 2 2 MONTH 4.2cc per day</p> |  <p>RD 3 3 MONTH 2.8cc per day</p> |  <p>BL 6 6 MONTH 1.4cc per day</p> |  <p>VARIABLE 1~12 MONTH 8.3~0.7 per day</p> |
|---|--|--|---|---|

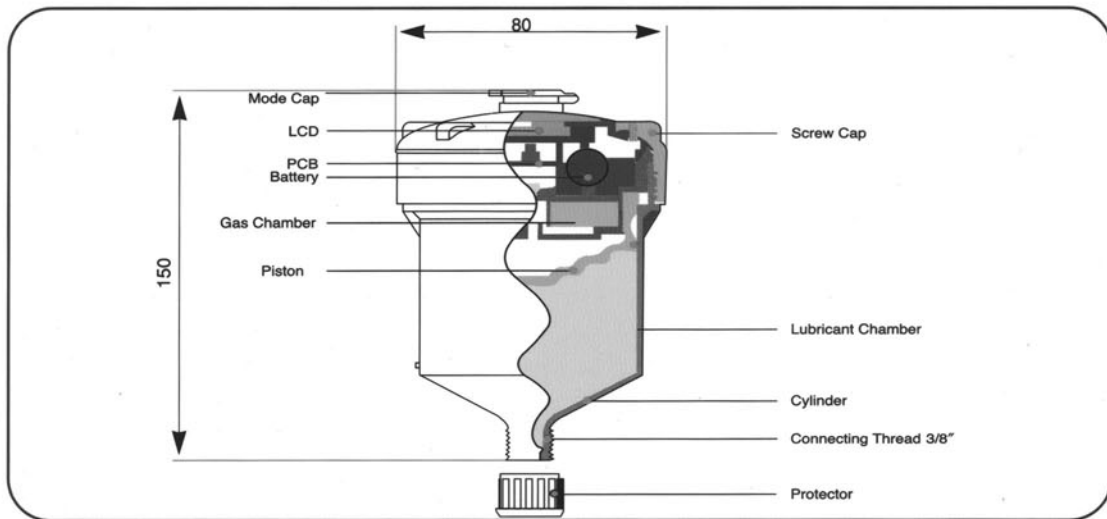
Note : Equivalents shown are for **PULSARLUBE** units operating at 20°C /68°F at sea level, 14.7psi. Output will vary with ambient temperature changes, atmospheric pressure changes, viscosity of lubricant, length of tube in remote installation, etc.

PULSARLUBE V

Advantages

| | |
|-----------------------------|--|
| Large LCD Display | User friendly. |
| One Touch Mode Switch | Simple operation. |
| Auto Purge Cut-out | Can not over lubricate. |
| Microprocessor Control | Accurate dispensing. |
| Variable Dispensing | Reduced inventory, six dispensing rates available. |
| Programmed Logic Circuit | Auto purge dispensing when expired. |
| High Performance Lubricants | High quality lubricants for industrial applications. |

Cross Section



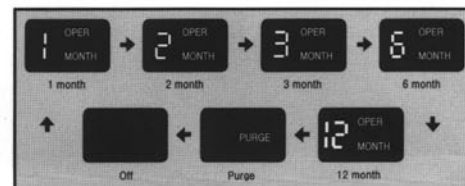
Installation

Installation is simple. Follow these steps.

1. Apply grease through existing nipple.
2. Remove nipple and fit adapter as required.
3. Fit unit to adapter or bearing thread.
4. Confirm LCD operation.
5. Set unit to correct dispensing rate.
6. Close switch cap.
7. Put on clear waterproof cover.
8. Mark installation date on label.
9. Schedule replacement date.

Operation

Each time the red switch is depressed, the dispensing rate changes. To return to the Start Position, continue to depress the red switch. See below for the seven operating position;



For safe use and proper installation, please refer to the installation instructions or preferred fitting methods available from your local distributor or the manufacturer.



Notes

- ◆ Use the waterproof cover over the unit when it is installed outdoors or in the humid environment.
- ◆ Before installing the unit, remove contaminants around the fitting point.
- ◆ Install one unit on each bearing point. A large sized bearing greater than 4 $\frac{3}{4}$ " (120mm) needs two units with a non-return valve. If a bearing has more than two nipples, install one unit for each nipple.
- ◆ The purge mode dispenses a large quantity of grease in a short time. It is useful to engage when back-pressure exists or the lube line is clogged. After the purge operation is used, the mode should be returned to a normal operation by depressing the appropriate mode button.
- ◆ When using the unit for the first time, fill the lube line with a manual grease gun. If the lube line is restricted, dispensing will be delayed. The grease in the gun should be same as, or compatible with, the grease in the unit. Please contact your distributor to check the grease compatibility.
- ◆ In a remote installation, the tube or pipe should have an internal diameter greater than 1/4" and a length less than 3 feet (1 meter). The tube or pipe should be filled with the same or compatible grease as the grease contained in the unit.
- ◆ The dispensing pressure decreases as distance increases. 1, 2 or 3 month mode is recommended in a remote installation.
- ◆ The operating temperature of the unit is from -4 °F to 140 °F (-20 °C to 60 °C).
- ◆ The maximum working pressure of the unit is 70 psi (5kg-f/cm²).
- ◆ Each unit has a lot number. Record the number of each unit for maintenance purposes.

PULSARLUBE U.S.A., INC.

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Distributor

WARRANTY

PULSARLUBE U.S.A., INC. guarantees the product to be free of defects in material and workmanship for a period of 12 months from date of delivery.

NOTE : Warranty is limited to replacement of the product.