ISO9001

PULSARLUBE

The New Generation of Single Point Lubricators 250cc

PULSARLUBE U.S.A., INC.

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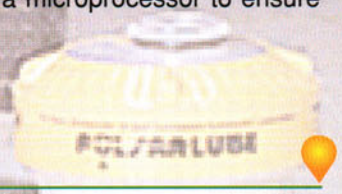
Operating Principles

PULSARLUBE & PULSARLUBE V operate on the principle of inert Nitrogen (N_2) 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.

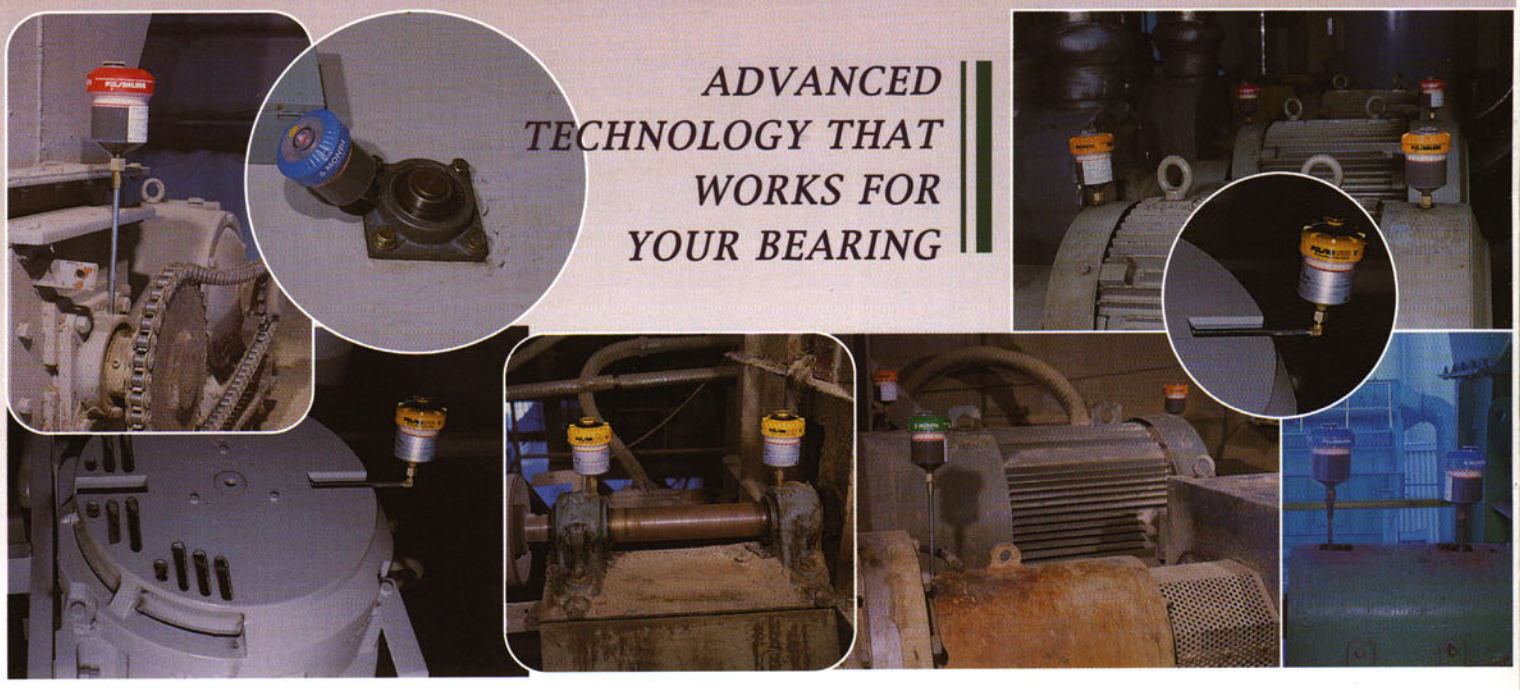
Adjustment Guidelines

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

OR 1
1 MONTH
8.3cc per day

GR 2
2 MONTH
4.2cc per day

RD 3
3 MONTH
2.8cc per day

BL 6
6 MONTH
1.4cc per day

VARIABLE
1~12 MONTH
8.3~0.7 per day

Note : Equivalents shown are for PULSARLUBE units operating at 20℃ /68℉ 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.

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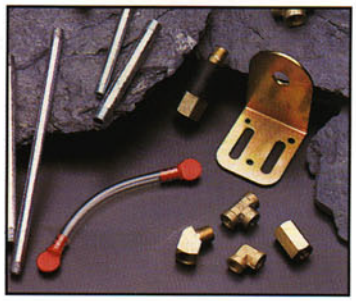
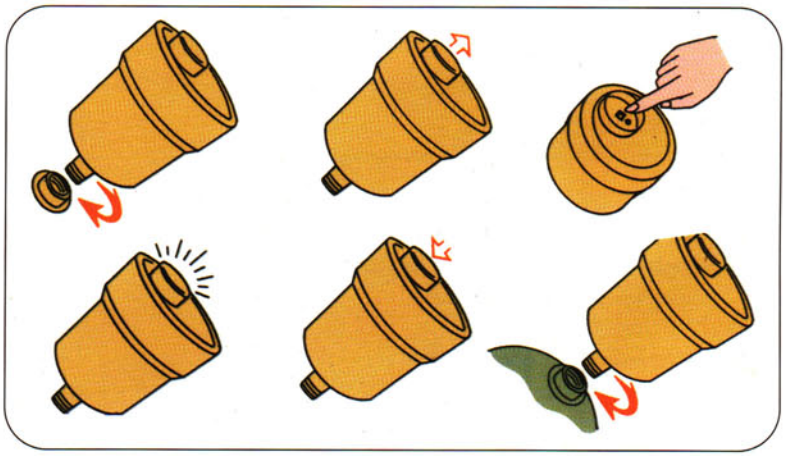
OR 1 GR 2 RD 3 BL 6

Advantages

Translucent, Impact Resistant Housing	Easy to inspect remaining lubricant.
Produces Inert Gas	Safe to use in confined spaces.
Color Coded Units	Easy to identify.
Indicator Lamp	Easy to check operation.
On/Off Switch	Easy to start, Can be stopped.
Low Unit Cost	Reduced lubrication costs.
Simple Fitting Method	No tools or training required.

Installation





To start the PULSARLUBE , depress the button located beneath the screw-on, clear waterproof cap. Once activated, a green indicator lamp flickers 7 to 8 seconds to confirm operation. As long as the lamp is illuminated, the unit is working.

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 4¾″(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 ℉ to 140 ℉(-20 ℃ to 60 ℃).
- The maximum working pressure of the unit is 70 psi (5kg-f/㎠).
- Each unit has a lot number. Record the number of each unit for maintenance purposes.

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rev. 1 February 2001