



LUBE SAVER

Automatic Conveyor Lubrication

The Lube Saver system is designed to dispense fluid based lubricants using a simple dedicated logic controller with repeat cycle intervals programmed to apply just the right amount of lubricant at each lube point. Menu driven programming allows the lube technician to quickly and easily program how long the lube pump will run for each "event" and how long the corresponding lube zone valve will remain open to allow lube to flow.

**A simple, easy to use system for
dispensing and controlling conveyor lubricants**



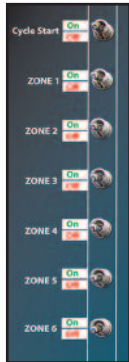
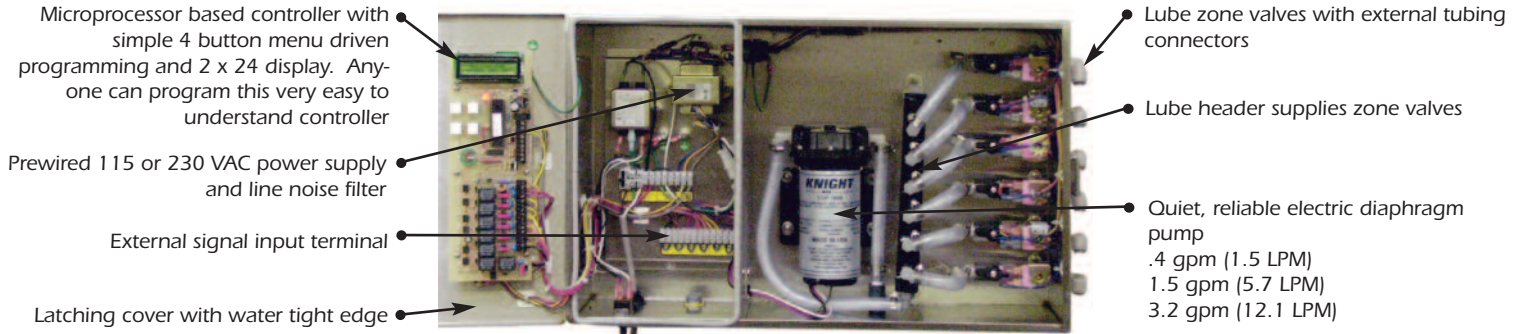
INDUSTRIAL SYSTEMS

- Dispense synthetic lubes to reduce water usage and discharge
- Dispense water based lubes with automatic zone control and optimization
- Clean and simple installation
- Less complicated than water driven pumps
- Simple digital controller with menu driven programming and password protection
- Reliable electric diaphragm lube pump (.4 , 1.5 , or 3.2 GPM)(1.5 , 5.7, or 12.1 LPM)
- Rugged 16 gauge #304 stainless steel control cabinet
- Supplies up to six lube zones with external on/off activation
- Lube cycle start with a toggle of a switch, voltage signal or dry contact inputs
- Easy to install, no need for highly skilled installation labor
- Track lube usage with EDGE data logger

KNIGHT

IDEX
FLUID & METERING

Features



Operator Control Panel

The simple operator panel allows operators to select which zones will be lubricated during that production run.

By toggling the cycle start switch the Lube Saver begins its preset lube dosing events automatically.

If the operators leave the system on too long an alarm will sound



Water Based Lube

Optional water based lube supply/ proportioning equipment packages

- 1 Water meter paced diaphragm pump, mix tank and level control
- 2 Level control/proportioner with 15 gallon poly tank

How It Works

At the beginning of each shift the operator determines which zones are to be lubricated and selects the corresponding zone switches on the front of the system as well as turning on the cycle start switch. At the end of the shift, the operator turns the cycle start switch to the off position. Lube cycles can also be triggered automatically from a PLC, conveyor motor switch, etc.

Applications



Market Served:

Beverage
Distillery
Food
Automotive & Chemical
Pharmaceutical & Nutritional
Cosmetic & Personal Care

Specification

Pumps	Three Chamber Electric Diaphragm with 3/8" (.95 cm) fittings
Case Material	Stainless steel #201
Wet End Materials	Viton/Santoprene
Dimensions	24.91" x 15.11" x 8.4" (63.27 cm x 38.38 cm x 21.34 cm)
Flow Rate	.4 GPM, 1.5 GPM, 3.2 GPM (1.5 LPM, 5.67 LPM, 17.1 LPM)
Case Rating	IP-65
System Voltage	115 or 230
Signal Start Input Voltage	18 to 250 VAC
PSI	70 PSI (4.82 bar)
Lube Zone Valve Voltage	110 or 230 VAC
Suction Lift	10 feet (3.04 m)
Maximum lift for priming	10 feet (3.04 m)

ORDERING INFORMATION

LUBE SAVER

PART #	DESCRIPTION	FLOW RATE	POWER INPUT
7641419	Lube Saver automatic lubrication system		
1600135-01	Electric Diaphragm Pump with internal bypass (Viton)	.4 GPM (1.5 LPM)	115 V
1600135-02	Electric Diaphragm Pump with internal bypass (Viton)	.4 GPM (1.5 LPM)	230 V
1600138-01	Electric Diaphragm Pump with internal bypass (Viton)	1.5 GPM (5.7 LPM)	115 V
1600138-02	Electric Diaphragm Pump with internal bypass (Viton)	1.5 GPM (5.7 LPM)	230 V
1600144-01	Electric Diaphragm Pump with internal bypass (Viton)	3.2 GPM (12.1 LPM)	115 V
1600144-02	Electric Diaphragm Pump with internal bypass (Viton)	3.2 GPM (12.1 LPM)	230 V

KNIGHT LIMITED WARRANTY

Knights controls and pump systems are warranted against defects in material and workmanship for a period of ONE YEAR. All Electronic Control Boards have a TWO YEAR warranty. Warranty applies only to the replacement or repair of such parts when returned to the factory with a KRA number, freight prepaid and found to be defective upon factory inspection. Rubber and synthetic rubber parts such as "O" rings, diaphragms, squeeze tubing and gaskets are considered expendable and are not covered under warranty. Warranty does not cover liability resulting from performance of this equipment nor the labor to replace this equipment. Product abuse or misuse voids warranty. Knight products are not for use in potentially explosive environments. Any use of our equipment in such an environment is at the risk of the user. Knight does not accept any liability in such circumstances.

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