

Lubrication for Emergency Rescue Vehicles



What Can Grease Jockey Do For You . . .

- Increase Life of Lubricated Components by up to 400%
- Eliminate Unplanned Downtime Due to a "Lack of Lubrication" Failure.
- Reduced Operating Costs Thru:
 1. Increased Availability of Apparatus
 2. Reduced Grease Consumption
 3. Reduced Preventive Maintenance Cost
- Improved Handling and Ride with Properly Lubricated Components

Specify Grease Jockey on Your Emergency Rescue Vehicle

SYSTEM DESCRIPTION

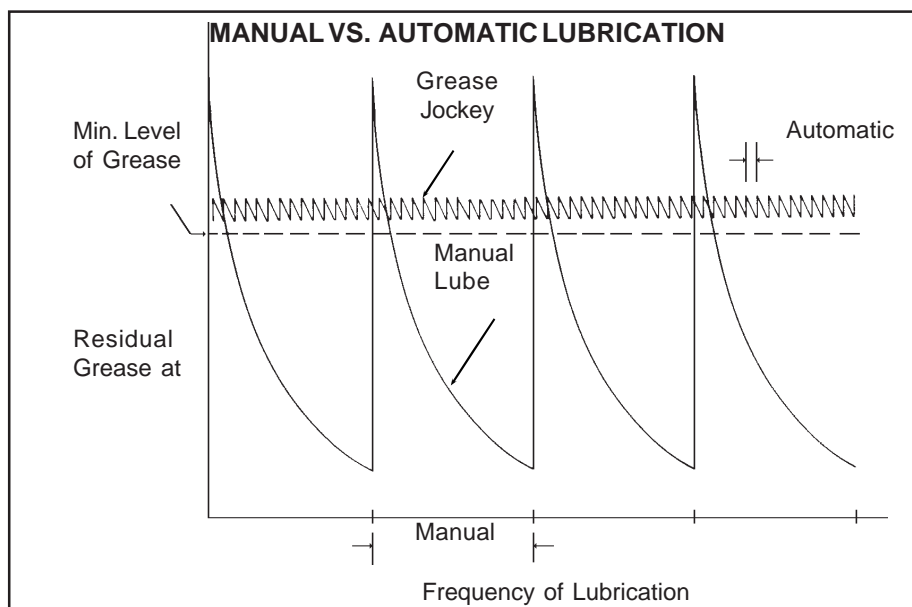
Grease Jockey is a centralized on-board system for automatic chassis lubrication of single and tandem axle ambulance, pumper, ladder, fire trucks and other rescue vehicles. A pump, powered by either a DC electric motor or by the vehicle air supply and controlled by a 12 or 24 VDC controller, feeds grease through a main line to modules serving groups of lube points. These modules are fitted with variously sized meters which feed the required amounts of grease to individual points through distribution lines.

A flexible reservoir attached to the pump holds up to 10 lbs. of grease and is easily refilled with conventional service lubrication equipment. Other reservoir sizes and styles are available.

SYSTEM BENEFIT

The benefits of Grease Jockey automatic lubrication systems can be seen with any bearing point (see chart). Small amounts of lubricant are injected at frequent intervals to keep bearings above the minimum lube requirement level on a constant basis, not just a short period of time after servicing.

Frequent lube cycles help eliminate unwanted dirt, water and other contaminants which cause bearing wear and subsequent component replacement.

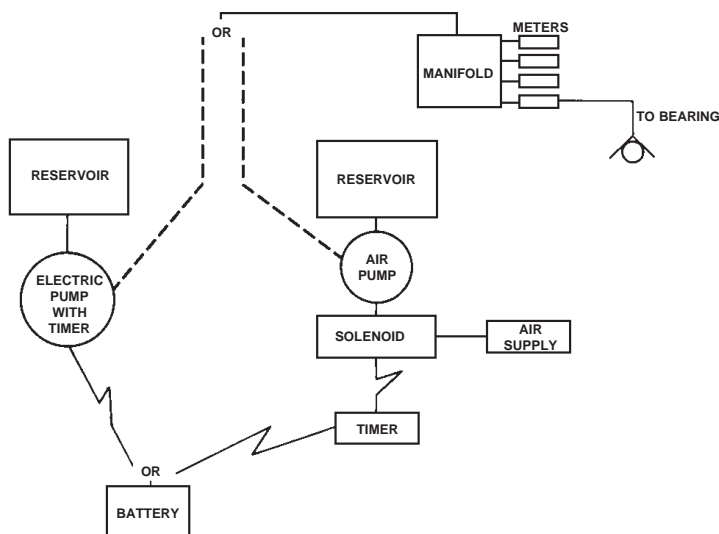


SYSTEM OPERATION

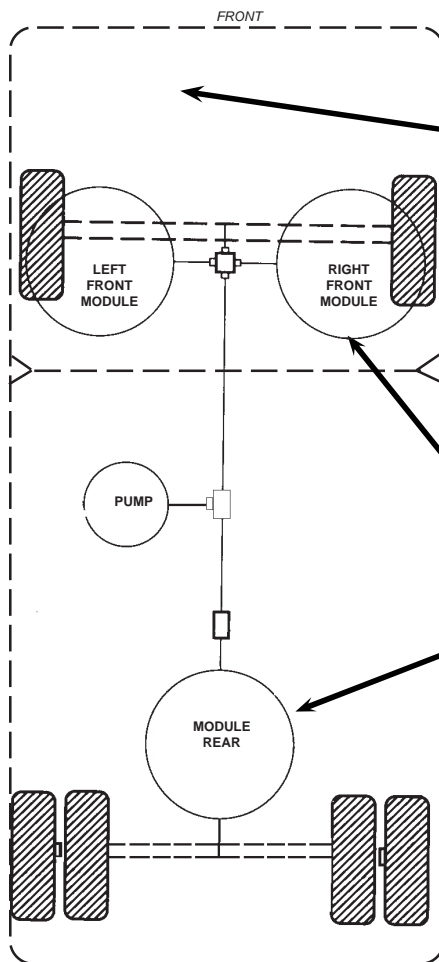
The air or electric pump is activated by a timer. The timer is connected in parallel with the vehicle's ignition switch so that the timer is operating all the time once contact has been made. At a pre-selected time set by the user, an electric circuit is energized, actuating the solenoid valve for the air pump or the electric gear-motor for the electric pump.

Lubricant pressure builds in the lines down to the meters. Each meter dispenses a precise amount of grease simultaneously into the bearings.

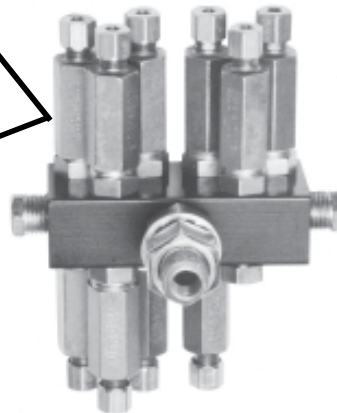
To complete the lubrication cycle, the timer breaks the circuit and the pump ceases operation. Pressure is released from the pump and meters, and the system primes itself for the next lubrication cycle.



TYPICAL CONFIGURATION



TIMER



TYPICAL MODULE WITH METERS

TYPICAL LUBE POINTS SERVED

KING PINS
 SPRING PINS
 SPRING SHACKLES
 BRAKE SHAFTS & LEVERS
 SLACK ADJUSTERS
 TRANSMISSION
 TILT CAB
 TIE RODS

AIR PUMP OPERATION

At the beginning of a lube cycle, the air solenoid valve opens, causing a neoprene diaphragm to force a spring-loaded piston into a lubricant-filled chamber. The lubricant in the chamber is driven past a check valve and into the lubricant lines which feed the modules and lube points. At the end of the cycle, the air pressure is exhausted, allowing the spring-loaded piston to retract and, at the same time, draw a new charge of lubricant from the reservoir for the next cycle. Also at the end of the cycle, the main lube line pressure is vented allowing the meters to reset and reprime for the next cycle. Periodic refilling of the reservoir is quickly accomplished through a fitting on the pump housing.

Electric motor driven pumps and other reservoir styles are available.



AIR DRIVEN PUMP

SPECIFICATIONS

Air Operated System-

Pump-

Air Pump Positive displacement, air actuated
Construction Cast aluminum body and bracket
Lubricant NLGI #0, #00 or #000 grease
Output per Cycle 1.5 cu. in (24.6 cm³)
Reservoir Capacity (flexible) 10 lbs. (4.5 kg)
(Plastic) 6 lbs. (2.7 kg), 12 lbs. (5.4 kg)
Inlet supply (dry) (air pump) .. 150 psi (1034 kPa) max;
60 psi (414 kPa) min.
Air-to-lube Ratio (max.) 9:1

Solenoid Voltage (air)..... 12 or 24 VDC

Timer-

Electrical 9 to 32 VDC (12 or 24 VDC Nominal)
Operating Temperature Range 0° to 131° F
(-19° to 55° C)
Enclosure (air pump) High-impact sealed plastic
Component Technology Solid-state
Lube Cycle Frequency 7 setting Adjustable 1/2 to 6
hours

Lines -

Main Supply to Modules 5/16" O.D. heavywall nylon
Module to Point 3/16" O.D. heavywall nylon
Operating Pressure (nylon lines) .. 1350 psi (9310 kPa)

Electric Operated System-

Pump-

Electric Pump Gearpump, electric-motor driven
Motor Voltage 12 or 24 VDC
Construction Cast aluminum body and bracket
Lubricant #00 or #000 grease
Output per Cycle w/timer 1.4 in³ (23 cm³) per pump cycle
Output per Cycle without timer ... 2.0 in³ (32.9 cm³) per
minute

Operating Pressure

1,000 psi 12 VDC
1,250 psi 24 VDC
Reservoir Capacity (flexible) 10 lbs. (4.5 kg)
(Plastic) 6 lbs. (2.7 kg), 12 lbs. (5.4 kg), 20 lbs. (9.1 kg)

Timer-

Electrical 9 to 32 VDC (12 or 24 VDC Nominal)
Operating Temperature Range 0° to 131° F
(-19° to 55° C)
Component Technology Solid-state
Lube Cycle Frequency 9 settings Adjustable 8 to 360 min.

Lines-

Main Supply to modules 5/16" O.D. heavywall nylon
Module to Point 3/16" O.D. heavywall nylon
Operating Pressure (nylon lines) .. 1350 psi (9310 kPa)

All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice

Call today for product information or to request a demonstration.

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