

DESCRIPTION

The Sentinel™ Lube System is a fully self-contained lubrication system, providing an economical and reliable method for dispensing lubrication, and complete state-of-the-art monitoring capabilities to help safeguard your equipment against costly repair due to lubrication slow-down or stoppage.

This product offers you the convenience and peace of mind in knowing that everything you need to maintain optimal lubrication rates is provided, all in one easy-to-use system. Components include: oil reservoir, pump, divider valve(s), filters, gauge, and monitoring system.

The Sentinel Lube System's modular design provides a proven cost-effective way to assemble customized lubrication systems to meet specific volume and pressure requirements. Pumping systems available on the Sentinel Lube System accommodate flow rates ranging from 1.25 - 425 pints per day.

The Sentinel Lube System uses a Manzel divider valve to accurately proportion and dispense oil to as many as 16 points, at pressures to 6000 psi. This series progressive design provides positive displacement and metering.

Using our microprocessor-based Lube Sentinel Monitor, the Sentinel Lube System safeguards your equipment against lubrication-related failure. This monitor detects and displays precise lubrication rates in 6 different units of measure, and can be configured to sound an alarm or activate an automatic shut-down in low-flow situations.

Designed for flexibility, the Sentinel Lube System will meet the requirements of a wide range of industries, including: automotive, food processing, gas transmission, petrochemical, pulp and paper, rubber processing,



textile, and utilities. The Sentinel Lube System can be used in virtually any industrial application where precise lubrication to prolong and protect valuable equipment is required.

FEATURES/ADVANTAGES/BENEFITS

Flexibility

- Accommodates flow rates from 1.25 to 425 pints per day
- Services 1-16 lube points (with 256 possible using secondary blocks).
- 2 reservoir sizes: 20 or 30 gallon
- 3 pumping systems available
- Applications up to 6000 psi (7500 psi systems available as an option).
- Single or 3-phase motor
- Separable design allows for flexibility in installation: panel can be separated from reservoir and pump assembly
- Standard industrial or explosion-proof



Divider Valve and Monitor Panel

Control & Monitoring

Precise lubrication rates allow you to adjust your pump to prevent over or under lubrication. Displays in:

- 6 different units of measure
- instantaneous reading
- average reading
- accumulated totals/since last reset

Built-in relay provides an electrical signal for an alarm or shut-down system when monitor detects the minimum flow rate you have programmed for your equipment.

No special training required to configure or operate the Lube Sentinel Monitor - simple 3-button design.

Completely Self-Contained

System includes:

- Reservoir
- Pump with motor

- Rupture relief valve
- Filtration
- Divider valve (1-16 points) - supplied by distributor to match the application.
- Monitor and Proximity Switch
- System pressure gauge

User Friendly - Easy to Install & Retrofit

All it takes is three easy steps.

1. Run electrical wiring for motor and monitor.
2. Connect tube fittings (run new or use existing tubing).
3. Turn it on.

***Note:** Adjusting the pump(s) and configuring the monitor takes just minutes, with no special training required.

System Integrity

- Incorporates products that combine proven technology with the state-of-the-art in lubrication today.
- Made in the U.S.A.

ACCESSORIES

Reservoir

- Heater
- High/Low Level Switch
- Low Level Switch
- Auto Fill

***Note:** All electric components available with explosion-proof options.



Lube Sentinel Monitor

Monitor

- **Safety Set**

The Safety Set includes a polarized magnetic sensitive switchbank that plugs into the face of the monitor. The switches correspond with the function buttons of the monitor and are activated by our Magnetic Data Wand, allowing operation of the monitor without removing the cover.

Options

- **Two Level Monitoring**

When the Lube Sentinel Monitor is being used in a single block or single master system, the monitor can be configured to designate 1 channel as an alarm point and the other channel as a shutdown point.

- **Explosion Proof**

Explosion proof monitor housing and motor options are available for various area classifications.

PRINCIPLES OF OPERATION

The operation of the Sentinel Lube System begins with a gravity supply line that runs from the reservoir to the inlet of the electric motor-driven pump. The pump delivers the output based on gear ratio, pump selection and setting. The pump generates the pressure required to overcome system pressure. The oil is then discharged through a high pressure filter into the divider valve, to meter and proportion the oil and deliver it to the point of injection.

System pressure is displayed with a pressure gauge on the panel, providing an indicator of potential problems. The Lube Sentinel Monitor will continuously check the system for slow or no-flow conditions. Should the flow rate fall below the pre-set minimum, the unit will fault. The monitor's internal relay will then be energized, and this signal can be used to sound an alarm or annunciate a shut down of your equipment. The System is protected from over pressure with a rupture disc at the discharge of the pump. Should a lube line become blocked, the rupture disc will burst, relieving the high pressure to the reservoir by way of a tube.

SPECIFICATIONS

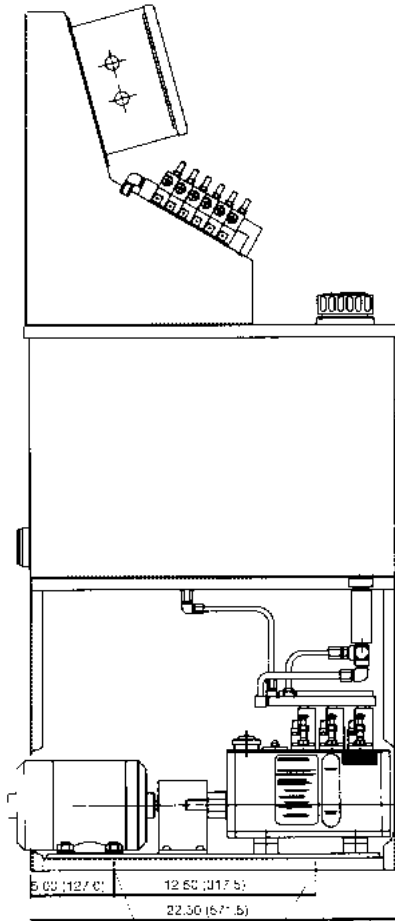
General

Material (basic)	Steel
Seals	Viton
Working Pressure (Max.) .	6000 psi standard
.....	7,500 psi option
Flow Rate (24 hr day) ..	1.25 pints - 425 pints
Weight	250 lbs. empty

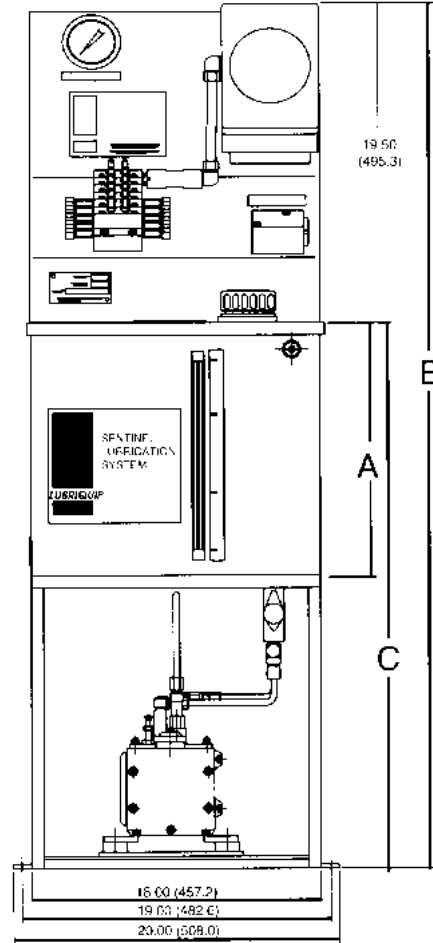
DIMENSIONS (mm)

20 Gallon Unit

30 Gallon Unit



.362 DIA. MOUNTING HOLES - 4 PLACES



CAPACITY	DIMENSIONS		
	A	B	C
20 GAL.	15.50 (393.7)	53.00 (1346.2)	33.50 (850.9)
30 GAL.	22.00 (558.8)	59.50 (1511.3)	40.00 (1016.0)

Look to LUBRIQUIP, INC.
for all your
Centralized Lubrication System needs

MONITOR: See Bulletin 14700

DIVIDER VALVES: See Bulletin 10102

FILTER: See Bulletin 15201

PUMPS: Manzel Model SBL-88 - See Bulletin 51040

Trabon LubeMaster - See Bulletin 12715

Trabon MVB Pump - See Bulletin 12506

PROXIMITY SWITCHES: See Bulletin 45306

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Centralized Lubrication Systems

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