

Technical Data Sheet

Dahle SAO-120 Automatic Oiler

OPERATION

A motor-driven spring discharge pump, the motor incorporates a gear reduction which determines the operating cycle time of the piston.

APPLICATION

Typically, the TM-1 automatic cyclic lubricator utilizes single line metering (resistance) devices. The lubricator is also ideally suited to deliver precise amounts of oil to various types of friction points.

DISCHARGE PRESSURE RANGE

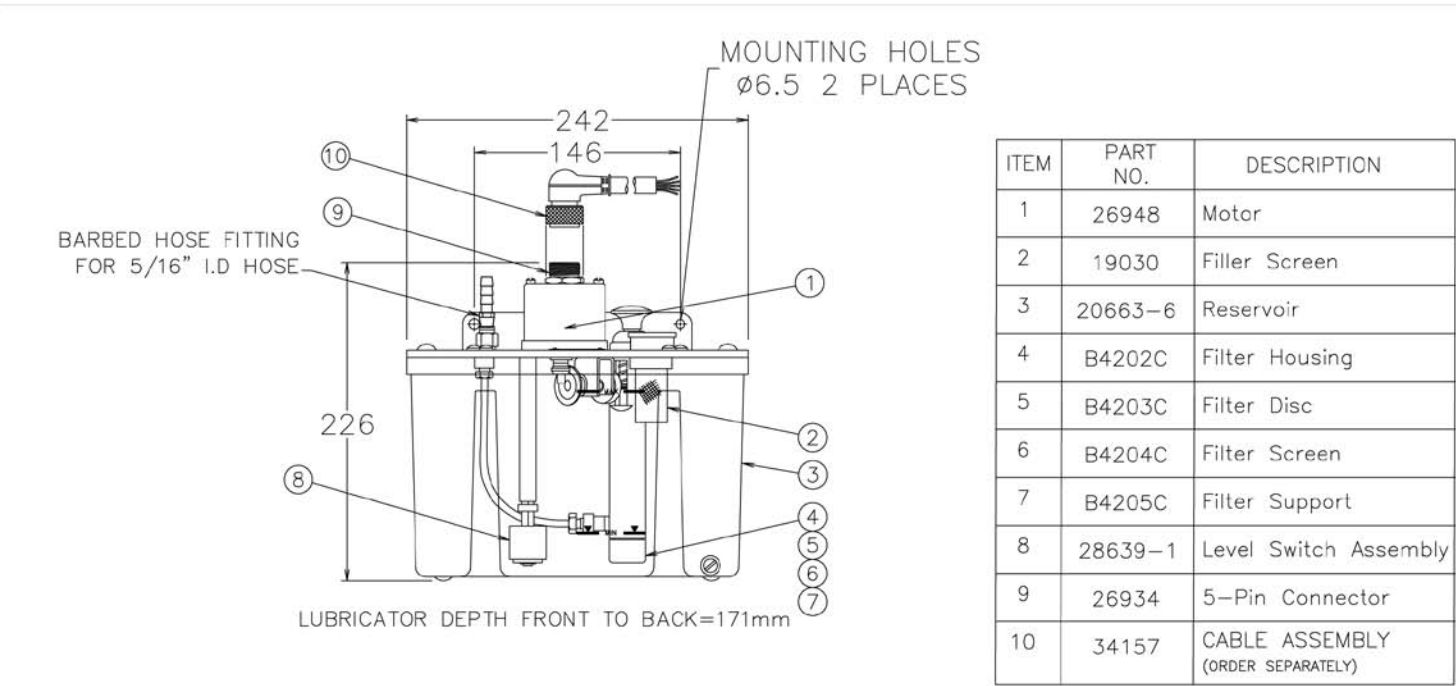
Output discharge pressure depends on the characteristics of the lubrication distribution system. When metering resistance devices are incorporated in the single line discharge system, typical pressure ranges between 20 - 50 psi (1.4 - 3.5 bar). Applications utilizing only a single discharge line develop only marginal pressures.

SERVICE PARTS

Normal recommended service parts are listed below.

OTHER TECHNICAL DATA

- | | |
|-------------------------------------------|----------------------------------------------------------------|
| • Discharge Cycle Time | 12 second intervals |
| • Reservoir Capacity | 4.0 liter (fill)
3.7 liter (useable) |
| • Discharge Volume Per Cycle (Adjustable) | 0.2cc minimum
1.0cc maximum
(set at maximum discharge) |
| • Lubricator Inlet Filter | 40 micron separation |
| • Liquid Level Switch | closed on low level |
| • Oil Viscosity Range | 150 to 8000 SSU
(35 to 1750cSt)
at operating temperature |



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DISCHARGE VOLUME PER STROKE CYCLE

Lubricant delivery per stroke is 1.0cc maximum. Output is adjustable from 1.0cc to 0.2cc minimum.

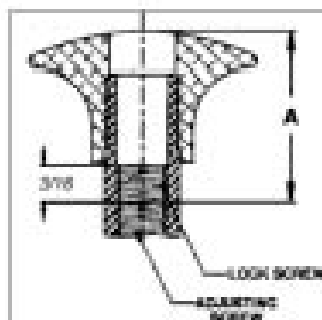
Important: Do not set minimum stroke output below 0.2cc. Refer to stroke setting table at right.

Lubricator is supplied set at maximum delivery stroke.

To decrease oil delivery, follow steps below:

- Remove lock screw by turning counter-clockwise.
- Measure dimension A before making adjustment.
- Turn adjusting screw clockwise to increase screw depth (refer to table at right).
- After desired setting is achieved, install and tighten lock screw.

- Note: It is recommended that actual delivery be measured for circumstances requiring a precise amount of lubricant.



Increase Screw Depth		To Obtain Discharge
INCHES	MM	cc/Cycle
0	0	1.0cc
.110	2.8	.8cc
.220	5.6	.6cc
.330	8.4	.4cc
.440	11.2	.2cc

Stroke Setting Table
This table to be used as a guide only

MOTOR

Continuous duty, single phase synchronous induction timing motor for 50/60 Hz, single phase, 110 volts.

Power consumption: 3 watts.

LIQUID LEVEL SWITCH

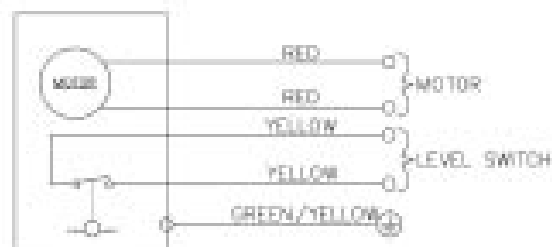
Lubricator is equipped with a low level switch. Switch is supplied so that the switch will **close** an electrical circuit whenever the oil in the reservoir is **below** the minimum operating level. When connected to a light or other indicating device, the reservoir liquid level can be monitored.

Customers may reverse the switch operation when desired by inverting the float. The switch will then **open** an electrical circuit whenever oil is **below** the minimum oil level.

Switch contact rating: 10 watts maximum.

WHEN ORDERING, SPECIFY

Name, symbol, description and part number, such as:
SAO-120 with 4 Liter Reservoir, Part No. 34687



Illustrations and specifications are not binding in detail. Designs are subject to modification and improvement without notice.



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