

# TM-1 Lubricator

## Automatic Cyclic, P.N. 17676



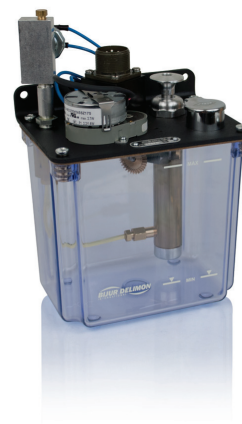
### Application

The TM-1 Lubricator is used with single line resistance type centralized lubricating systems. These systems utilize cyclic delivery meter units to proportion oil discharged from the lubricator.

### Operation

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

Cycle Time - 115 VAC	
50 Hz	60 Hz
7.5 min	6.25 min



### Technical Data

Reservoir Capacity	1 liter
Lubricator Inlet Filter	40 micron particle separation
Discharge Pressure	20-50 psi
Factory Discharge Setting	1.0cc
Discharge Volume Per Cycle*	0.2cc to 1.0cc adjustable
Viscosity range	150 to 8,000 SSU (35-1750 cSt) at operating temperature

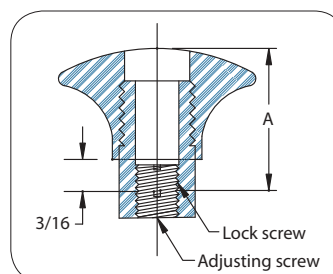
### Notes Regarding Use

1. Lubricator inlet filter should be inspected periodically and cleaned/replaced as required.
2. Discharge pressure will decrease as the number of meter units in the system increases.

### \*Discharge Volume Per Cycle

To reduce oil delivery, remove lock screw, measure "A", turn adjusting screw clockwise, increasing "A" by "B" dimension, as shown on table.

B	Discharge
0.44"	0.2cc
0.33"	0.4cc
0.22"	0.6cc
0.11"	0.8cc
0"	1.0cc



### BIJUR DELIMON INTERNATIONAL

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## Distribution System

Uses Type F meter units. For system (ø) limitations, see *Bijur Engineering Manual*. For system flow value (øT) limitations, refer to table below.

Meter Units (#)	Discharge Per Cycle (cc)		
	.25	.50	1
5	95	145	240
10	65	100	170
15	55	85	140
20	45	75	115

## Motor

Continuous duty, single phase, synchronous induction timing motor for 50/60 Hz single voltage 115. Power consumption is 3 watts.

Wiring for Single Voltage Motor	
115 VAC	Two red wires

*Bijur reserves the right to change motor size, mounting dimensions and/or manufacturer.*

## Maintenance

### Filter Replacement

A filter at pump inlet protects the lubricating system. The felt filter disc should be inspected every six months. If not clean, replace. To remove filter, pry filter cup loose in several places with a screwdriver. Remove screens and felt filter disc. Insert new filter disc in cup, then screens, so that course screen in next to pump body when installed. Reinstall assembly, making sure that it is tight and that the tip of the filter cup is about 1/16" from the shoulder on pump as shown.

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## How To Order

Volts	Cycle Time		TM-1 with 1 Pint Reservoir
	50 Hz	60 Hz	Part #
115 VAC	7.5 min	6.25 min	17676

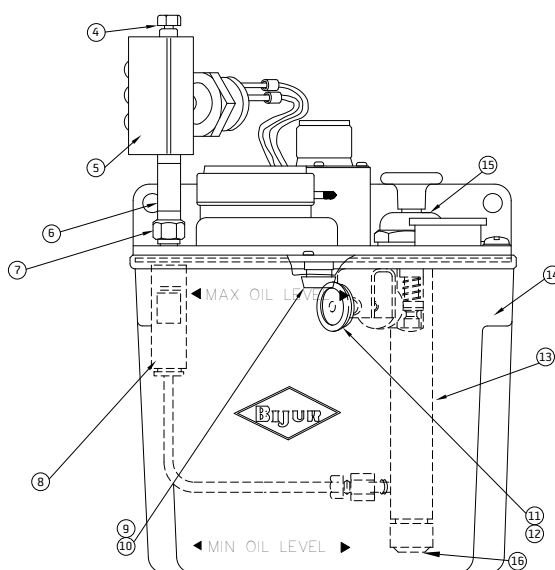
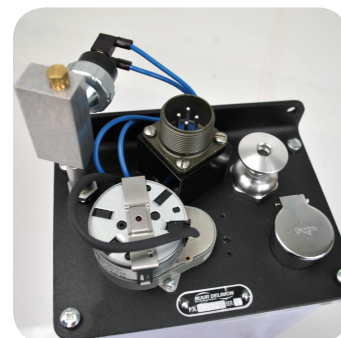
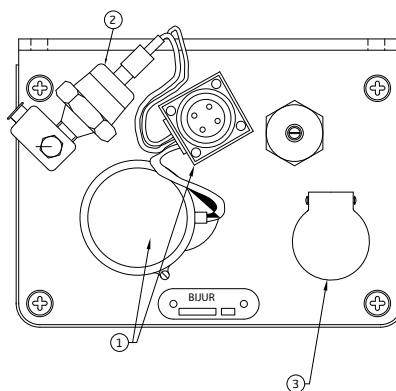
### Notes:

P.N. 17676 Replaced P.N. 17055

When ordering, specify lubricator type and part number, such as: TM-1 Lubricator, Part #17676.

## Service Parts

Item	Part #	Description
1	19417	Motor Harness /Connector Assembly
	19422-1	Motor/Gearbox only
2	HE855	Pressure Switch
3	HF705C	Fill Cap
4	15322	Plug
5	17678	Junction
6	B8482	Nipple
7	17965	Bushing
8	15317	Inline filter
9	B7824	Bevel Gear
10	HS209	Set Screw, Bevel Gear
11	B7823	Bevel Gear
12	HS210	Set Screw, Bevel Gear
13	B8827	Pump Assembly
14	20324-KIT	Reservoir Kit (Incl:Res.,Gasket & Screws)
15	B7389	Pump Body Nut
16	S178	Filter Kit



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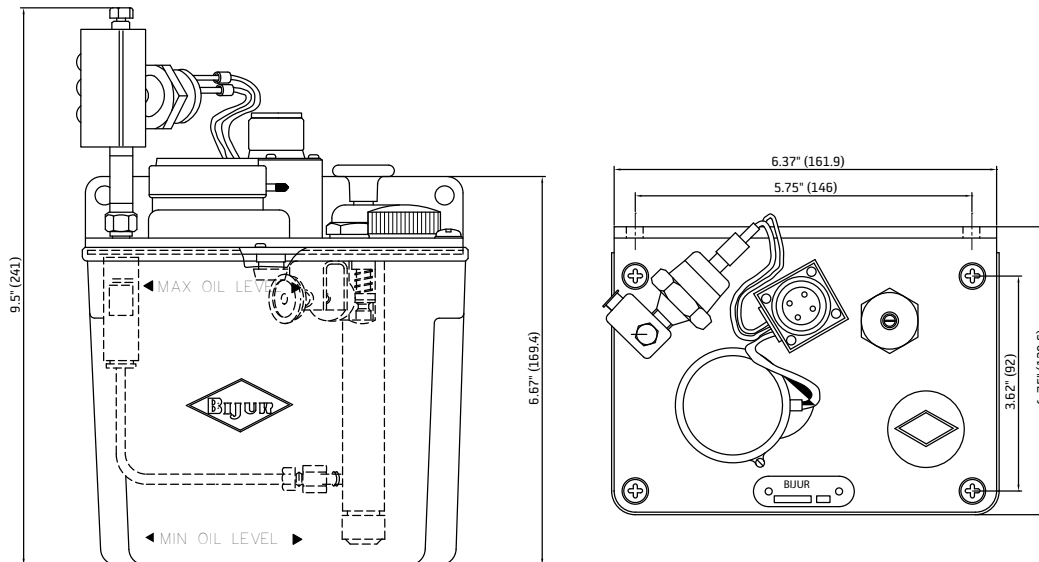
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## Dimensional Schematics

17676

Measurements shown in inches (mm).



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