

# HAP-P Lubricator

## Manual, One Shot

### General

Lubricator includes a spring return piston pump and is operated by pushing a lever which raises a piston and compresses a spring, discharging oil into the system. Discharge volume and pressure are independent of oil viscosity.

### Operation

Lubricator includes a spring return piston pump in a plastic reservoir. Pulling up slowly on the lever handle to the stop fills the cylinder with a predetermined volume of oil. Upon release, spring pressure discharges the oil into the system and returns the handle to the original position. Lubricator must be operated at intervals recommended by machine manufacturer.



### Technical Data

Reservoir Capacity	475cc (1 pint)
Lubricator Inlet Filter	40 micron particle separation
Discharge Pressure	60 psi average
Factory Discharge Setting	15cc
Piston Diameter	1/18"
Piston Stroke Setting	1/2 to 1-1/8"
Discharge Volume Per Stroke	5 to 15cc
Viscosity range	100 to 10,000 SSU at operating temperature
Outlet	1/8"NPTF

### Notes Regarding Use

- Lubricator inlet filter should be inspected periodically and cleaned/replaced as required.  
To install replacement, disconnect discharge tubing and remove cylinder cap.
- Discharge pressure will decrease as discharge volume decreases and the number of meter units in the system increases.

Piston Stroke Setting	1-1/8"	13/16"	21/32"	1/2"
Discharge Volume/Stroke (cc)	15	10	7.5	5.0

### System & Limitations

Use meter units type F. Total system flow ( $\emptyset$ ) limitation is given in the table below.

Meter Units (#)	CC Per Shot			
	5.0	7.5	10	15
15	1750	2400	2900	3500
20	1500	1700	2200	2600
25	1230	1500	1700	2000
30	950	1200	1400	1700
40	780	960	1100	1300
50	640	820	920	1100
60	570	710	810	960
70	500	600	720	860

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## Startup Instructions

Fill reservoir; operate lubricator until oil flows freely at all bearings.

## Maintenance

### Filter Replacement

A filter at pump inlet protects the lubricating system and should be inspected every six months. If not clean, replace. To remove filter, pry out snap ring with screwdriver and remove filter disc and screens. To re-install, insert in the following order: filter disc support (coarse screen), filter disc screen (fine screen), filter disc, filter clamp ring and filter snap ring.

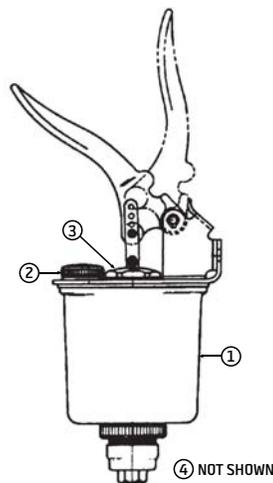
## How to Order

Name	Part #
Lubricator HAP-P	D3221C

When ordering, specify by name and part number, e.g. Lubricator HAP-P, Part #D3221C.

### Service Parts

Item	Description	Part #
1	Reservoir	C2966C
2	Filler Cap	B9230C
3	Gasket	B9058
4	Filter Group	S130



#### ATTENTION

Use clean oil only of the type and viscosity recommended by machine manufacturer.

#### ATTENTION

Replace filter group annually.

#### ATTENTION

Before removing cylinder cap, pull up handle and place block between handle and reservoir to hold piston above lowest position.

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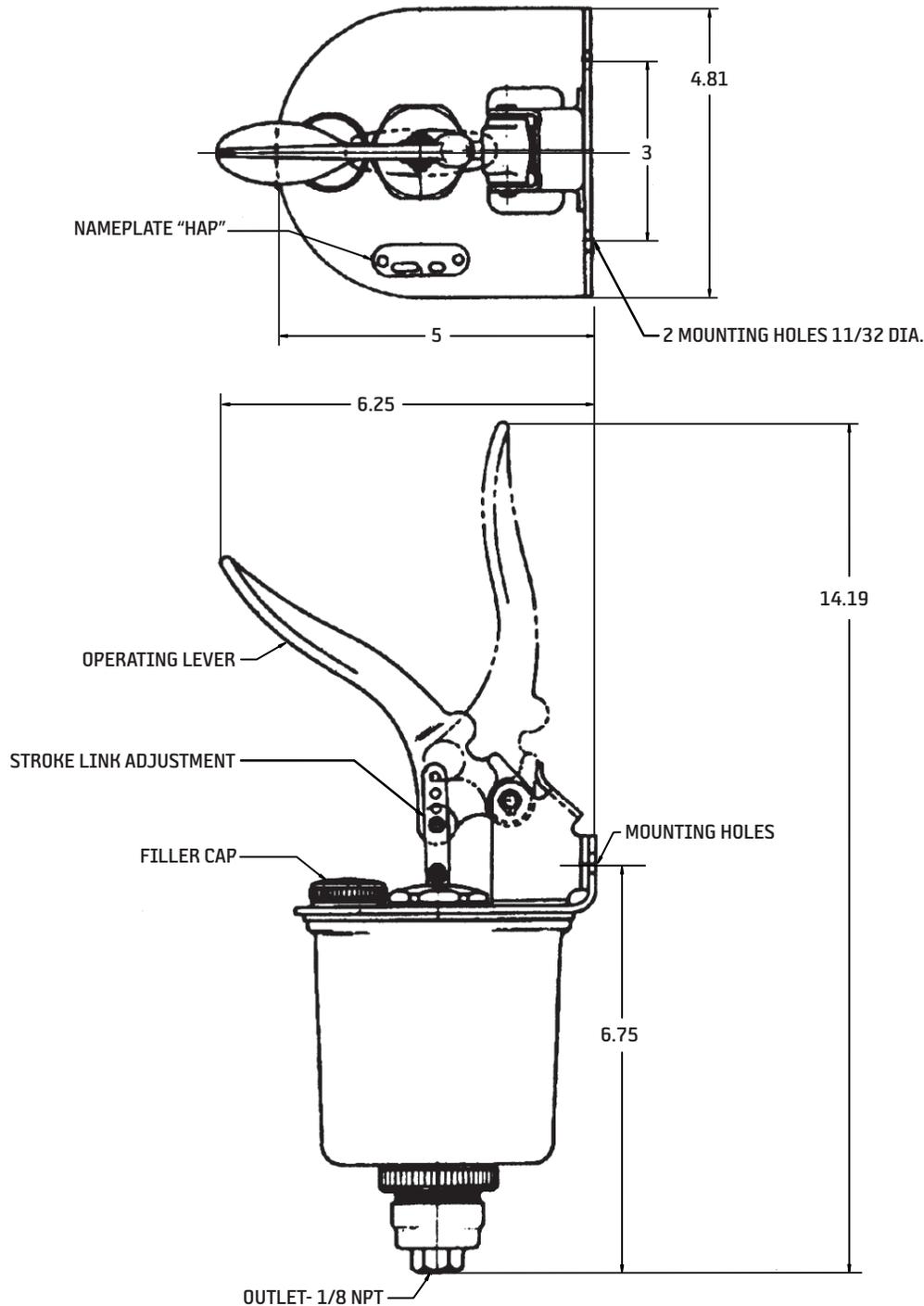
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## Dimensional Schematic

Measurements shown in inches.



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