

P-55U Pump Operating Instructions (Box Suction)

Box Suction Pumps (Vacuum Feed)

- Fill reservoir with oil.
- Loosen union nut on pump outlet
- Remove the vent screw and fill the sight glass with oil. Prime by manually pumping flushing unit until air free oil is observed from the drip tube, and oil level drops in the sight glass
- Replace vent screw and tighten union nut
- Maintain oil level in sight glass below the drip tube so drops can be observed

Flow Rate Adjustment

- Loosen locknut on flushing unit
- Turn flushing unit counter-clockwise to increase flow
- Turn flushing unit clockwise to decrease flow
- Tighten locknut when desired flow rate is achieved

Sight Glass

- In a vacuum type sight feed, it is not uncommon for oil level in the sight glass to drop during operation. Absence of a level indicates air is being taken in with the oil and some oils, due to viscosity conditions, will release air faster than others. When the quantity of air becomes excessive, it can eventually air lock the pump.

For this reason it is recommended an oil level in the sight glass be maintained.

When level drops, remove the vent screw and fill sight glass to top; replace vent screw and operate flushing unit manually, observing that oil in the sight glass is free from air. If air is not expelled, it may be necessary to loosen union nut (on pump outlet) and expel air at this point. It is desirable to maintain level below the drip tube so drops can be seen during operation.

Due to viscosity conditions, some oils release air faster than others. For this reason, it is difficult to indicate how long the sight glass level can be maintained before a diminishing oil level occurs.

Overfilling of Sight Glass

- In a vacuum type sightfeed, it is not uncommon to see a reverse action whereas sight glass fills with oil and the drops can not be observed. Overfilling is caused by oil

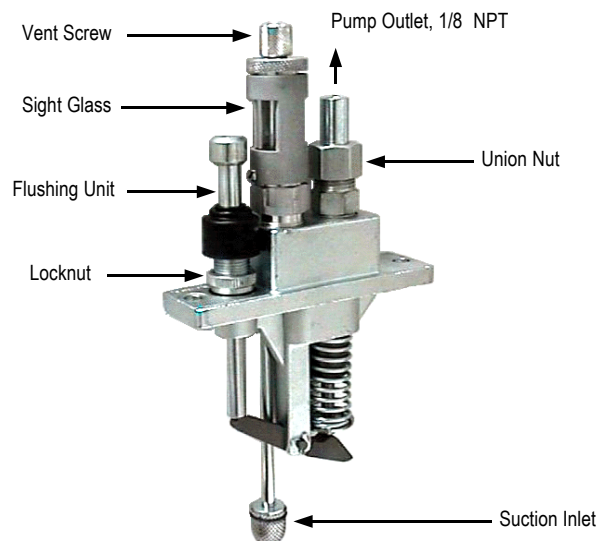
absorbing air in the sight glass and normally does not affect the operation of the pump. Remove the vent screw from sight glass and allow level to drop below drip tube. Tighten vent screw and check to see that air free oil from drip tube can be observed in the sight glass. If overfilling continues, it may be caused by plunger wear and oil slippage is being drawn back to sight glass. If this is the problem, the feed setting in drops per stroke will then automatically be reduced by the amount of slippage.

Reservoir Oil Level (Loss of Prime)

- If reservoir runs low on oil (at a point below the suction inlet of the pump) it may be necessary to prime individual pumps after filling, using procedure listed above.

Pump Displacement

- Maximum output (per stroke):
 - 1/4 Plunger = .018 Cubic Inches
 - 3/8 Plunger = .038 Cubic Inches
- The cubic volume for a pint of oil is 28.9 cubic inches and average drop size is .002 cubic inches. There are approximately 14,500 drops in a pint; however oil viscosity may vary drop size.



For Additional Information Contact:

Fred C. Gilbert Company

106 Norris Road

Bakersfield, Ca. 93308 USA

Telephone (661) 399-9569

Fax (661) 393-9654