ALEMITE

SERVICE INSTRUCTIONS

Air Line Lubricators

5904-2
5906-2
5908-2
5912-2
5916-2

DESCRIPTION

This series of Alemite air line lubricators is designed to provide continuous, automatic aspiration of oil into air lines serving pumps, compressors, etc., while minimizing re-setting and maintenance. All models feature a “Dial-Set” adjustment whereby the desired oil metering can be set accurately regardless of airflow. Once set, these lubricators automatically compensate for changes in airflow demand and provide a bypass for a wide operating range with low pressure drop. The upper sight glass allows visual confirmation of the oil flow rate.

SPECIFICATIONS — ALL MODELS

Maximum Operating Air Pressure ..... 250 psi

Maximum Operating Temperature ..... 150° F

Maximum Oil Viscosity ..... SAE 40
(SSU 800 Sec. @ 100°F)

INSTALLATION

Before installing the lubricator, blow out the pipe line to be served, removing all scale and other foreign matter. Lubricator threads are dry seal, apply pipe compound or teflon tape sparingly to the male threads of the connection only. Do not allow sealant on first two threads.

Install lubricator so that the airflow will travel in the direction indicated by arrows on the lubricator body. Install as near as possible to the equipment to be lubricated. To assure trouble-free performance, an air filter should be installed upstream of the lubricator.

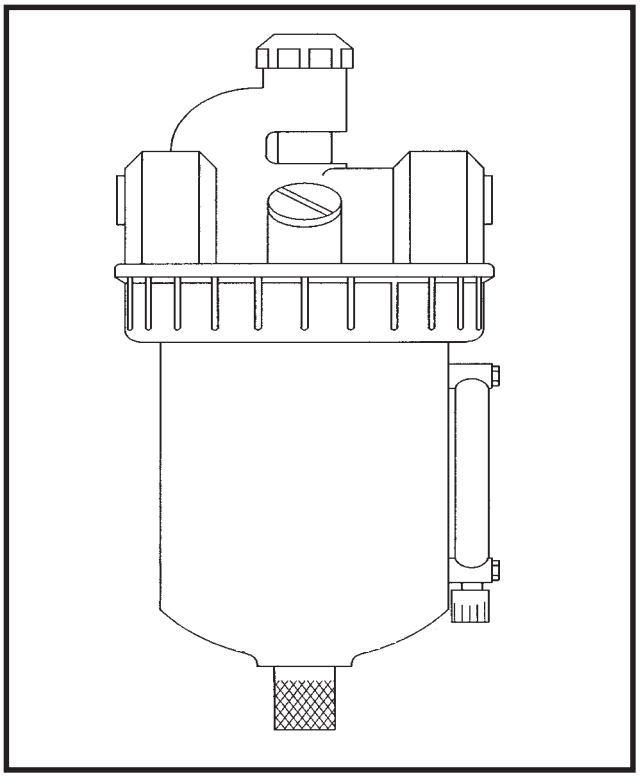


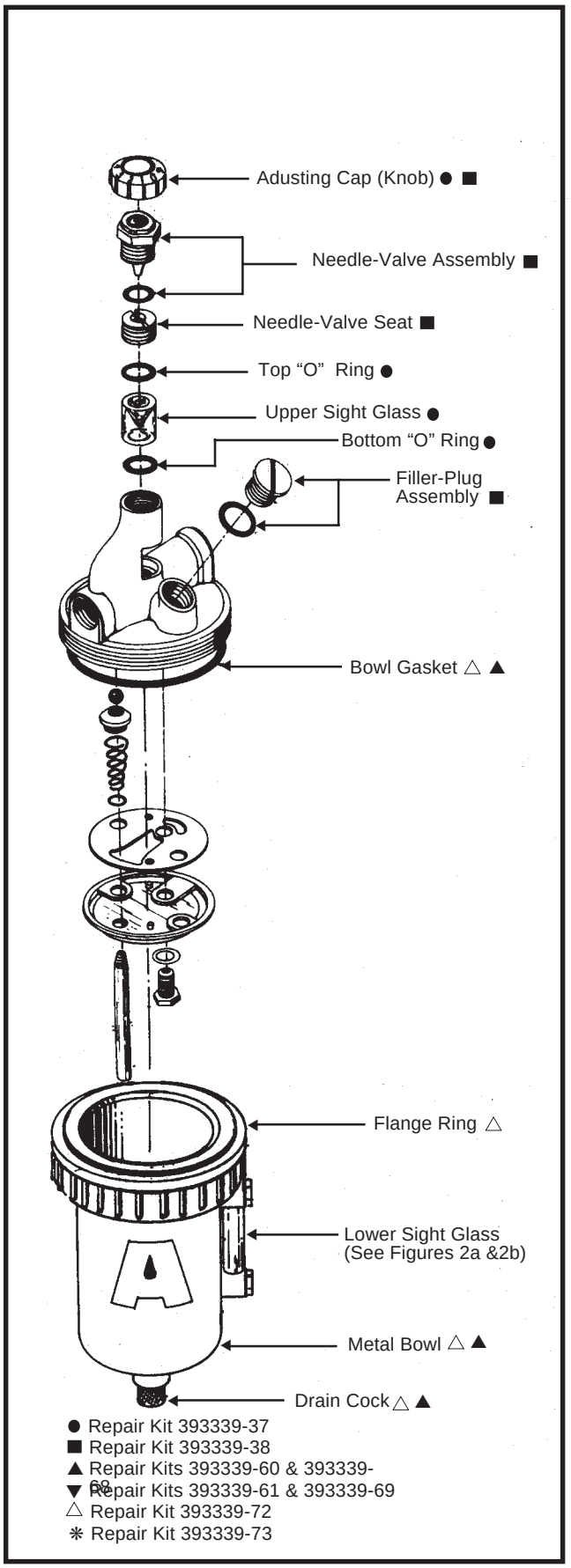
Figure 1: *Model 5904-2 Air Filter/Moisture Separator*

MODEL SPECIFICATION CHART

Model	5904-2	5906-2	5908-2	5912-2	5916-2
Air Inlet & Outlet	1/4"	3/8"	1/2"	3/4"	1"
Bowl Capacity	5 oz.	5 oz.	8 oz.	16 oz.	16 oz.
Operating Range, 100 psi (5 psi drop max.)	2 to 33 cfm	2 to 33 cfm	5 to 90 cfm	10 to 330 cfm	10 to 330 cfm
Weight	2-1/4 lbs.	2-1/4 lbs.	4 lbs.	3-3/4 lbs.	3-3/4 lbs.

FOR FURTHER SERVICE, CONTACT YOUR LOCAL ALEMITE DISTRIBUTION CENTER

ALEMITE CORPORATION
PO BOX 12300 CHARLOTTE NC 28220-9925



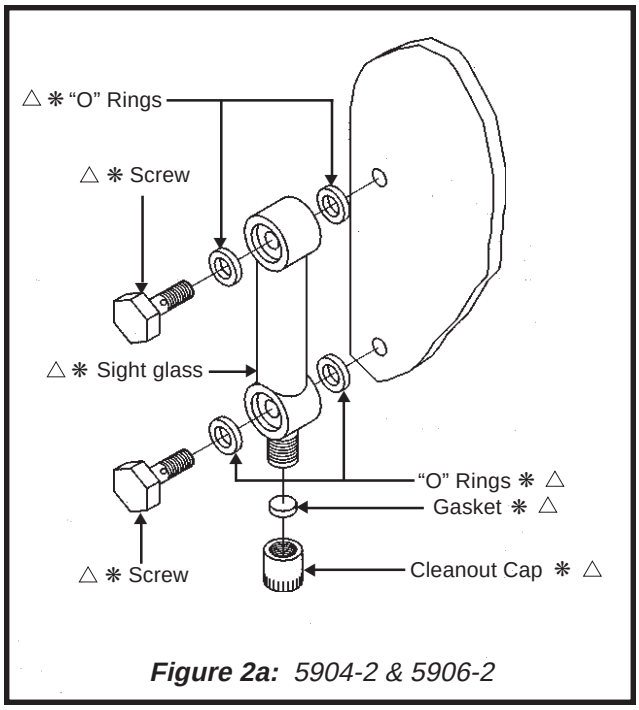


Figure 2a: *5904-2 & 5906-2*

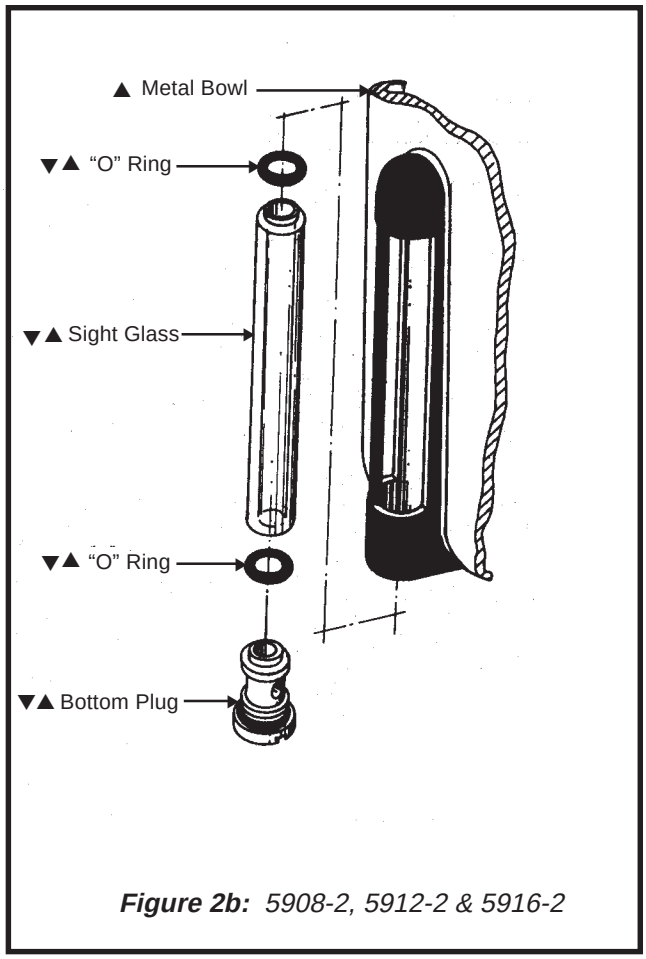


Figure 2b: *5908-2, 5912-2 & 5916-2*

Figure 2: *Lubricator Parts*

Repair Kits For Models 5904-2 and 5906-2

● 393339-37 For Upper Sight Glass Assembly

Adjusting Cap
Upper Sight Glass
"O" Ring (Top)
"O" Ring (Bottom)

■ 393339-38 For Needle-Valve Assembly

Adjusting Cap
Needle Valve Assembly
Needle Valve Seat
Filler Plug Assembly

△ 393339-72 For Bowl and Lower Sight-Glass Assembly

Bowl Gasket
Bowl with Sight Glass Assembly
Drain Cock
Flange Ring

□ 393339-73 For Lower Sight-Glass Assembly

Sight Glass Assembly with Cleanout Cap
"O" Rings (4)
Screws (2)

Repair Kits For Model 5908-2

● 393339-37 For Upper Sight-Glass Assembly

Adjusting Cap
Upper Sight Glass
"O" Ring (Top)
"O" Ring (Bottom)

■ 393339-38 For Needle-Valve Assembly

Adjusting Cap
Needle Valve Assembly
Needle Valve Seat
Filler Plug Assembly

▼393339-61 For Lower Sight-Glass Assembly

"O" Rings (2)
Sight Glass
Bottom Plug
Indicator Float

▲ 393339-60 For Bowl and Lower Sight-Glass Assembly

Bowl Gasket
Bowl with Sight Glass Assembly
and Drain Cock

Repair Kits For Models 5912-2 and 5916-2

●393339-37 For Upper Sight-Glass Assembly

Adjusting Cap
Upper Sight Glass
"O" Ring (Top)
"O" Ring (Bottom)

■ 393339-38 For Needle-Valve Assembly

Adjusting Cap
Needle Valve Assembly
Needle Valve Seat
Filler Plug Assembly

▲ 393339-68 For Bowl and Lower Sight-Glass Assembly

Bowl Gasket
Bowl with Sight Glass Assembly
and Drain Cock

▼393339-69 For Lower Sight-Glass Assembly

"O" Rings (2)
Sight Glass
Bottom Plug
Indicator Float

LUBRICANT RECOMMENDATIONS

For average condition, the use of a high quality SAE 10 (SSU 150-200 Sec. @ 100° F) oil is recommended. Other lubricating oils may be used as specified by the manufacturer of the equipment being served but should be no heavier than SAE 40 (SSU 800 Sec. @ 100°F).

NOTE: The oil and its container must be as clean as possible, as dirt or other contaminants will clog the lubricator, necessitating shut-down and cleaning.

FILLING

All models of this series of lubricators can be filled while under pressure and without shutting down equipment. To fill, slowly remove either Fill Plug and fill to within 1/4" of the top of the bowl using correct oil.

For best results, use a long spout oil can so that the filler neck of the can may be inserted into the top of the bowl.

OPERATION

The “Dial-Set” knob is factory set so that no oil is delivered to the venturi for atomization when the knob is set to zero (0). Turn on air supply to start flow and set the knob to obtain the desired drops per minute (visible through the Upper Sight Glass). As an initial setting, one or two drops per minute is suggested. Setting should be modified by the user as determined by experience and demand.

During operation, lubrication may be checked by holding a thumbnail or mirror to the equipment exhaust; a heavy film indicates over-lubrication and the drops-per-minute setting should be reduced by turning the knob clockwise to a lower setting.

NOTE: Clockwise rotation of the knob decreases the oil-feed rate.

If desired, lubricator may be made tamper-proof by removing Knob once correct setting is reached.

NOTE: Numbers on knob are for reference only and DO NOT correspond to drops-per-minute.

MAINTENANCE

If both oil and air supply are kept “clean” and the oil level is never allowed to fall below the bottom of the bowl supply tube, the lubricator should provide long periods of unattended service. Cessation of oil dripping as viewed through the upper sight glass, regardless of adjustment, is an indication that cleaning is necessary.

CAUTION: Make certain that the air supply to the unit is shut off and all pressure relieved before removing components such as the Bowl and Cock Assembly or the Needle Valve Assembly.

To clean, it is not necessary to remove the lubricator from the line. Disassembly may be accomplished simply and with a minimum of tools by following the exploded views in Figure 2. In most instances, only the oil metering components (those found in the vertical housing above the upper sight glass) need be cleaned. Clean these parts with methanol. Make certain that all holes and passages are clear.

NOTE: Clean Sight Glasses with household detergent and water only. The hole for oil passage at the bottom of the Upper Sight Glass area may require careful cleaning. Clear this passage by using a No. 57 drill.

Blow out the disassembled lubricator with compressed air before reassembly.

Page 3 is a listing of the repair kits that are available to facilitate servicing the air line lubricators. These kits provide parts that are most subject to wear and damage.

CHANGES SINCE LAST REVISION

No Part Changes