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 dome allows visual confirmation of the oil feed 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 the lubricator so that the air flow 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.

MODEL SPECIFICATION CHART

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

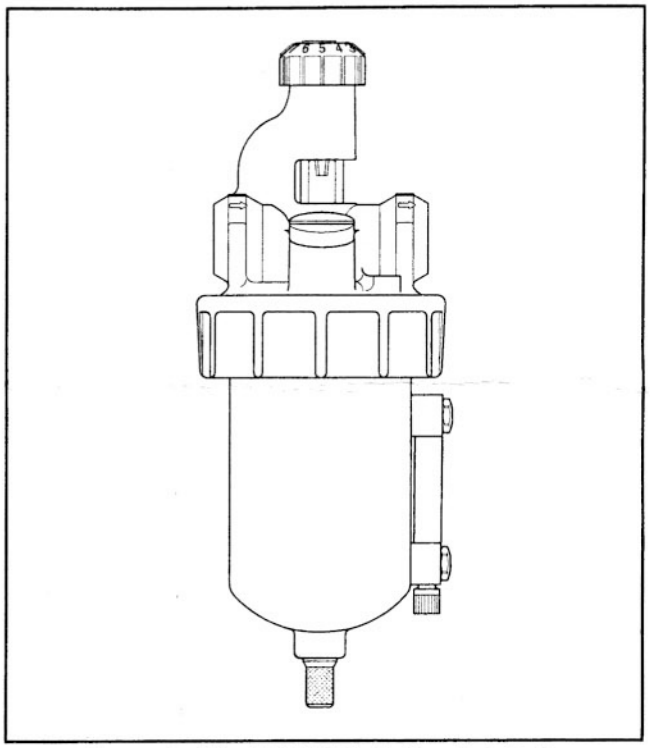

Figure 1: *Model 5904-2 Air Line Lubricator*

⚠ WARNING

To avoid unpredictable system behavior that can cause personal injury and property damage:

- **Disconnect electrical supply (when necessary) before installation, servicing, or conversion.**
- **Disconnect air supply and depressurize all air lines connected to this product before installation, servicing, or conversion.**
- **Operate within the manufacturer's specified pressure, temperature, and other conditions listed in these instructions.**
- **Medium must be moisture-free if ambient temperature is below freezing.**
- **Service according to procedures listed in these instructions.**
- **Installation, service, and conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.**
- **After installation, servicing, or conversion, air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or the product does not operate properly, do not put into use.**
- **Warnings and specifications on the product should not be covered by paint, etc. If masking is not possible, contact your local representative for replacement labels.**

FOR FURTHER SERVICE, CONTACT YOUR LOCAL ALEMITE DISTRIBUTION CENTER

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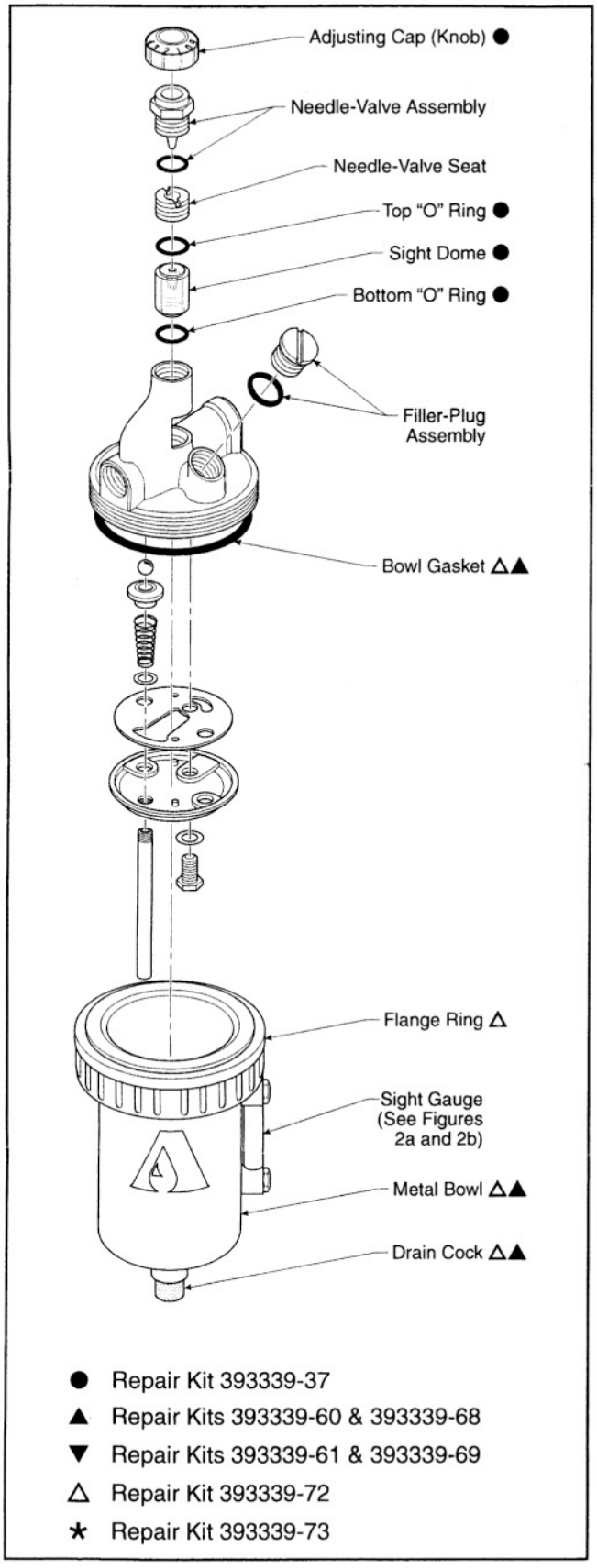

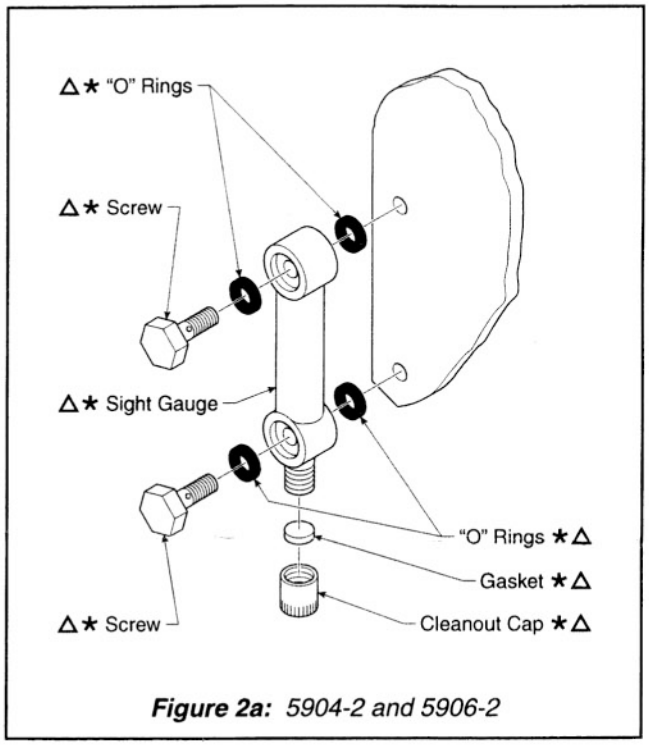

Figure 2a: *5904-2 and 5906-2*

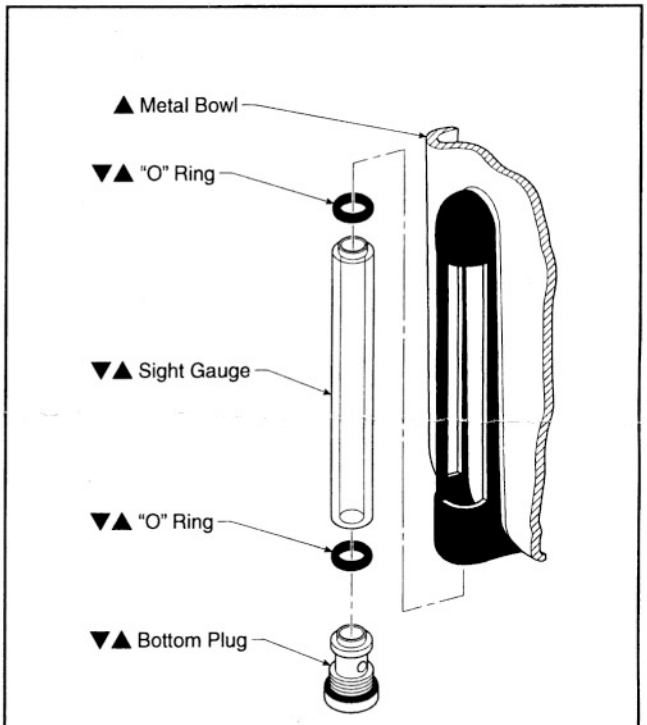

Figure 2b: *5908-2, 5912-2 and 5916-2*

Figure 2: *Lubricator Parts*

Repair Kits For Models 5904-2 and 5906-2

● 393339-37 For Sight Dome Assembly
Adjusting Cap
Sight Dome
"O" Ring (Top)
"O" Ring (Bottom)

△393339-72 For Bowl & Sight Gauge Assembly
Bowl Gasket
Bowl with Sight Gauge Assembly
Drain Cock
Flange Ring

✱ 393339-73 For Sight Gauge Assembly
Sight Gauge Assembly with Cleanout Cap
"O" Rings (4)
Screws (2)

Repair Kits For Model 5908-2

● 393339-37 For Sight Dome Assembly
Adjusting Cap
Sight Dome
"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 Sight Gauge Assembly
"O" Rings (2)
Sight Gauge
Bottom Plug
Indicator Float

▲393339-60 For Bowl & Sight Gauge Assembly
Bowl Gasket
Bowl with Sight Gauge Assembly and
Drain Cock

Repair Kits For Models 5912-2 and 5916-2

● 393339-37 For Sight Dome Assembly
Adjusting Cap
Sight Dome
"O" Ring (Top)
"O" Ring (Bottom)

▲393339-68 For Bowl & Sight Gauge Assembly
Bowl Gasket
Bowl with Sight Gauge Assembly and
Drain Cock

▼393339-69 For Sight Gauge Assembly
"O" Rings (2)
Sight Gauge
Bottom Plug
Indicator Float

LUBRICANT RECOMMENDATIONS

For average conditions, 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 serviced, 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 sight dome). 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 tamperproof 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 sight dome, 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 any components such as the bowl and drain 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 metering components (those found in the vertical housing above the sight dome) need to be cleaned. Clean these parts with methanol. Make certain that all holes and passages are clear.

NOTE: Clean sight gauges with household detergent and water only. The hole for oil passage at the bottom of the sight dome 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.

PARTS CHANGES SINCE LAST REVISION

Removed 393339-38 Kit

⚠ CAUTION

Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydrocarbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and di-ester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Bowl guards are recommended for added protection of polycarbonate bowls where chemical attack may occur.

⚠ WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from The Company, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application, including consequences of any failure and review the information concerning the product or systems in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

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