

Fairchild Industrial Products
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Installation & Service Instructions
IS-1000A20L
L20 Lubricator
ISSUED: October, 2010
Supersedes: None
EN# 100936

 **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.

 **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 diester 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.

 **WARNING**

To avoid polycarbonate bowl rupture that can cause personal injury or property damage, do not exceed bowl pressure or temperature ratings. Polycarbonate bowls have a 150 PSIG pressure rating and a maximum temperature rating of 125°F.

Safety Guide

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: www.fairchildproducts.com/documents.php

Installation

1. Refer to the above **WARNING** before installing lubricator.
2. Make sure that system piping and lubricator are the same pipe size. Avoid using fittings, couplings, etc. that restrict airflow or baffle the oil out of the air at the lubricator outlet.
3. Install unit as near as possible to the equipment requiring lubrication.

4. Position unit so air flows in direction indicated by arrow on the front of the lubricator body.
5. Install lubricator in a vertical position with bowl side down.
6. To install drain line on units equipped with a manual drain attach flexible tubing having an I.D. of 5/32" (4 mm) to drain stem

Operation

1. **NOTE: Maximum pressure rating is 150 psig (10.3 bar) for transparent plastic bowls, and 250 psig (17.2 bar) for metal bowls. Temperature range is 32°F to 125°F (0°C to 52°C) for transparent plastic bowls, and 32°F to 150°F (0°C to 65.5°C) for metal bowls.**
2. The lubricator can be filled under pressure by removing the fill plug slowly, allowing the pressure in the bowl to vent to atmosphere. After the pressure is bled off, the fill plug may be removed completely and oil poured into the fill port. When the fill plug is removed, a small amount of air will be venting from the fill port. This is to serve as an audible signal denoting that the unit is in fact under pressure. If faster filling is desired, slowly remove the fill plug to vent the bowl pressure to atmosphere. Then remove the bowl and bowl guard assembly by turning counterclockwise. Fill the bowl, reposition the bowl o-ring seal and reinstall the bowl into body and turn clockwise to securely lock in place. Reinstall the fill plug. The unit is ready for use.
3. To adjust and set oil delivery rate, the unit must be pressurized and flowing air. Turn the transparent sight dome counterclockwise to initiate/increase oil delivery. Turn the sight dome clockwise to decrease/stop oil delivery. Note: The oil delivery rate will change automatically to deliver more oil during increase air flow demand and less oil for air flow lower than the original setting.
4. Use clean oil, preferably SAE 10 or lighter. Do not use phosphate ester or diester based fluids in lubricators.

Maintenance

1. Given normal operating conditions this unit will be trouble-free. If the oil delivery rate should drop, the lubricator should be inspected and cleaned to remove contaminants. Service unit at least every six months.
2. **TO CLEAN OR REPLACE BOWL ASSEMBLY:**
 - a. Depressurize unit.
 - b. Remove bowl and bowl guard assembly by turning counterclockwise.
 - c. Inspect bowl daily for damaged or deteriorated seals. Replace with original manufacturers approved seals and bowls.

 **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.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

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- d. If bowl becomes dirty, replace it or clean it by wiping the bowl with a soft dry cloth or a mild detergent.
 - e. Before returning to service, insure that all seals have been reinstalled or replaced.
 - f. Reinstall bowl and bowl guard assembly and rotate bowl guard clockwise to securely lock in place. Align arrow on bowl guard with arrow on lubricator body.
3. Occasionally, liquid water will get trapped in the lubricator bowl. Since water is more dense than oil, the water will migrate to the bottom of the bowl. Periodically clean bowl to remove the liquid water.

Service Kits Available

The following service kits contain the appropriate seals and parts necessary for ordinary field service.

Description	L20 Lubricator
Polycarbonate Bowl, Bowl Guard, Manual Drain	21571-2
Metal Bowl w/o Sight Glass, Manual Drain	21571-3