

WILKERSON®

Richland, MI 49083

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Installation & Service Instructions
83-295-000

AtoMist® Lubricator Model L27
with Variations and Accessories

ISSUED: April, 2006

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⚠ 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 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.

INSTALLATION

1. Refer to the warning.
2. Install as close as possible to the equipment requiring lubrication.
3. Install the unit with the air moving through the body in the direction indicated by the arrow.
4. Install a unit with the same pipe-size as the line in use. Avoid using fittings, couplings, etc., that restrict the airflow or baffle the oil out of the air at the lubricator outlet.
5. The lubricator cannot be filled without first shutting off air pressure and venting the bowl. (Remove fill plug.) The bowl may be taken off after the fill plug is removed if a more rapid fill is required. DO NOT PRESSURIZE until the fill plug, bowl and bowl guard are in position and locked into place.
6. The rate of oil delivery may be controlled by turning the adjusting screw counterclockwise for more and clockwise for less oil delivery. Adjust the lubricator by reducing the airflow to the minimum scfm required and setting the oil drip rate so that the desired amount of oil is delivered to the point of use. The more the airflow increase, the more oil you will need, and the more you will automatically receive. Ordinarily, adjust to tone drop per minute of oil as seen through the sight dome or each 33 scfm (56 Nm 3/h) of air being used; e.g., for 50 scfm (84 Nm3/h), adjust for 1.5 drops per minute; 100 scfm (168 Nm 3/h), 30 dpm; etc.
7. DO NOT OVERFILL BOWL; OIL LEVEL MUST BE BELOW THE RECLASSIFIER

MAINTENANCE

1. Given clean operating conditions, this unit will be trouble-free. Contaminants from dirty oil may collect on the siphon tube inlet filter, requiring the filter to be cleaned by tapping on a hard surface and blowing off with an air blow gun.
2. IF THE OIL DELIVERY RATE DROPS, the lubricator should be cleaned. Shut off air supply and reduce pressure in unit to zero. Remove the adjusting screw and clean the needle and the seat in the body. Inspect and clean the passage from the needle seat down into the adapter.
3. OIL NOT SPRAYING ONTO RECLASSIFIER—In addition to the above possible reasons, the mist generator might be plugged. Turn off and vent air pressure through the fill plug, then remove the bowl, disassemble the reclassifier and pry out the missing nozzle with a screwdriver or a knife blade, clean in kerosene and blow out holes with air blow gun
4. Drain off any contaminants which collect in the bottom of the bowl.

SOME OF THE MATERIALS THAT WILL ATTACK POLYCARBONATE PLASTIC BOWLS.

Acetaldehyde	Carbolic acid	Ethylene chlorohydrin	Phenol
Acetic acid (conc.)	Carbon disulfide	Ethylene dichloride	Phosphorous hydroxy chloride
Acetone	Carbon tetrachloride	Ethylene glycol	Phosphorous trichloride
Acrylonitrile	Caustic potash solution	Formic acid (conc.)	Propionic acid
Ammonia	Caustic soda solution	Freon (refrig. and propell)	Pyridine
Ammonium fluoride	Chlorobenzene	Gasoline (high aromatic)	Sodium hydroxide
Ammonium hydroxide	Chloroform	Hydrazine	Sodium sulfide
Ammonium sulfide	Cresol	Hydrochloric acid (conc.)	Styrene
Anaerobic adhesives and sealants	Cyclohexanone	Lacquer thinner	Sulfuric acid (conc.)
Antifreeze	Cyclohexanone	Methyl alcohol	Sulphural chloride
Ammonium hydroxide	Cyclohexene	Methylene chloride	Tetrahydronaphthalene
Benzene	Dimethyl formamide	Methylene salicylate	Tiophene
Benzoic acid	Diozane	Milk of lime (CaOH)	Toluene
Benzyl alcohol	Ethane tetrachloride	Nitric acid (conc.)	Turpentine
Brake fluids	Ethyl acetate	Nitrobenzine	Xylene
Bromobenzene	Ethyl ether	Nitrocellulose laquer	
Butyric acid	Ethylamine	Perchlorethylene & others	

TRADE NAMES OF SOME COMPRESSOR OILS, RUBBER COMPOUNDS AND OTHER MATERIALS THAT WILL ATTACK POLYCARBONATE PLASTIC BOWLS

Atlas "Perma-Guard"	Houtosafe 1000	Parco #1306 Neoprene	Stillman #SR 513-70
Buna N	Kano Kroil	*Permbond #910	(neoprene)
Cellulube #510 and #220	Keystone penetrating oil #2	Petron PD287	Tannergas
Crylex #5 cement	*Loctite 271	Prestone	Telar
*Eastman 910	*Loctite 290	Pydraul AC	Tenneco anderol #495
Garlock #99403	*Loctite 601	Sears Regular Motor Oil	and #500 oils
(polyurethane)	Loctite Teflon-Sealant	Sinclair oil "Lily White"	Titon
Haskel #568-023	Marvel Mystery Oil	Stauffer Chemical	*Vibra-tite
Hilgard Co's hill phene	Minn. Rubber 366Y	FYRQUEL #150	Zerex
Houghton and Co. oil	National Compound #N11	Stillman #SR 269-75	
#1120, #1130 & #1055	*Nylock VC 3	(polyurethane)	

WE CANNOT POSSIBLY LIST ALL HARMFUL SUBSTANCES, CHECK WITH A MOBAY CHEMICAL OR GENERAL ELECTRIC OFFICE FOR FURTHER INFORMATION ON POLYCARBONATE PLASTIC

⚠ 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.

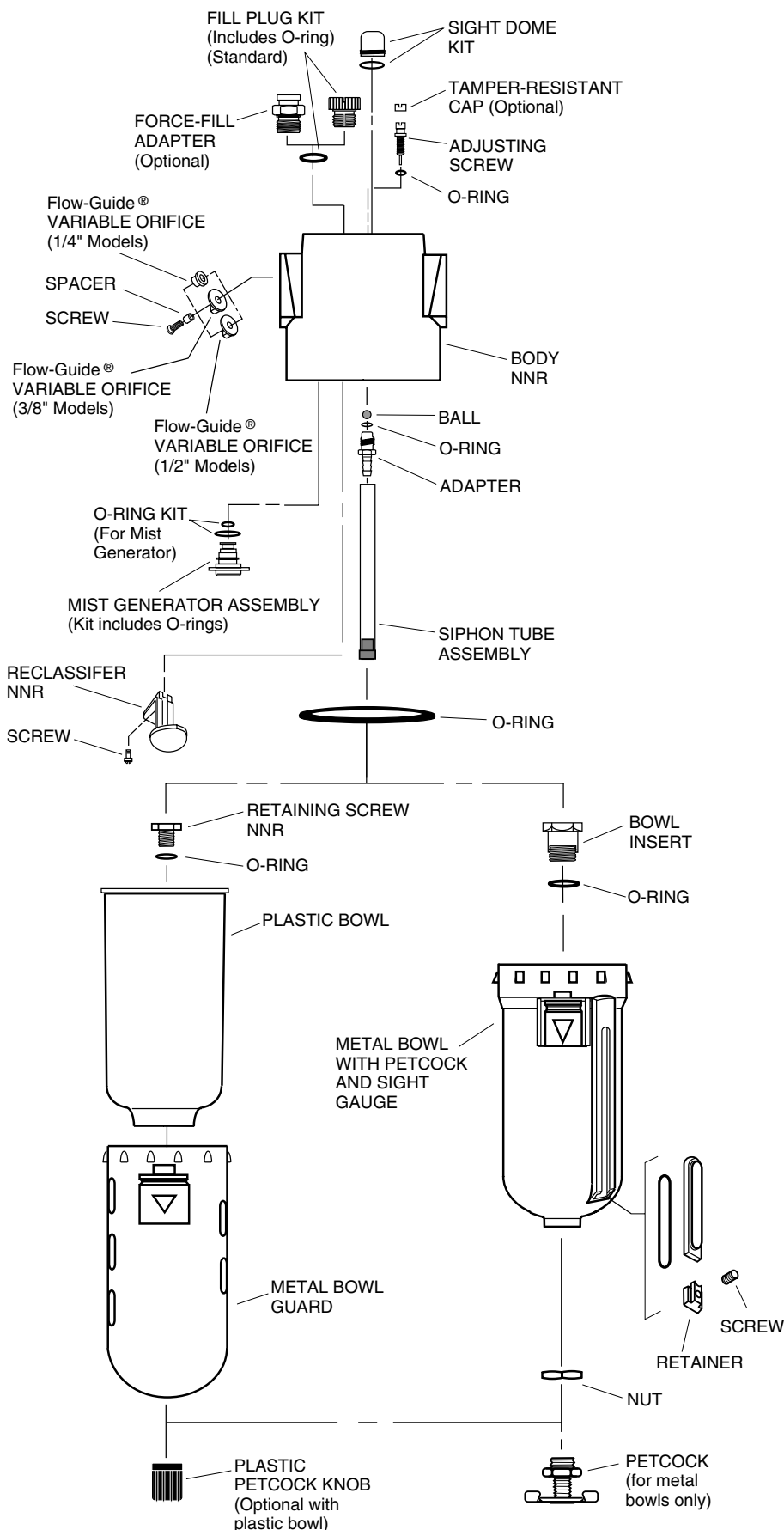
EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.

KITS AND REPLACEMENT PARTS

Fluorocarbon O-Ring Repair Kit	GRP-95-009
O-Ring Repair Kit	LRP-95-059
O-Ring Kit for Adjusting Screw (10 per kit)	GRP-95-255
O-Ring Kit for AtoMist® Lubricator Generator	GRP-95-258
Siphon Tube Assembly Kit	LRP-96-137
Sight Dome Kit	LRP-95-239
Fill Plug Kit (includes O-Rings)	LRP-95-253
Flow-Guide® (1/4" models)	LRP-95-246
Flow-Guide® (3/8" models)	LRP-95-247
Flow-Guide® (1/2" models)	LRP-95-248
Plastic Bowl Assembly	LRP-96-958
Plastic Bowl-No Drain	LRP-96-938
Plastic Bowl w/Plastic Petcock and Bowl Guard	LRP-95-967
Plastic Petcock Kit	LRP-95-181
Metal Gauge Bowl w/Petcock, Sight Gauge	GRP-95-931
Check Ball and O-Ring Kit	LRP-95-310
AtoMist® Lubricator Generator Assembly	LRP-95-675
Auto-fill® Lubricator Adapter w/plastic Bowl Assembly	LRP-95-965
Lubricator Adjusting Screw	LRP-95-163

ACCESSORIES

Sight Gauge Kit	GRP-95-079
Tamper Resistant Kit	LRP-95-587
Force Fill Adapter	GRP-96-394
Wall Mounting Bracket	GRP-96-946



NNR=NOT NORMALLY REPLACED