

# Airmatic

## OPTIMA - 401 LUBRICATORS

MODEL : L 401  
L 410

Polycarbonate Bowl  
Metal Bowl

### TEMPERATURE AND PRESSURE RATING

SIZES	MODEL	BOWL	MAX.	MAX.
			PRESSURE	TEMP.
G1/4, G½	L401	Polycarbonate	12 Kg/cm <sup>2</sup>	50° C
	L410	Metal	18 Kg/cm <sup>2</sup>	70° C

**WARNING :** Never use these polycarbonate plastic bowls on air supplied by a compressor lubricated with synthetic oils or oils containing phosphate esters or chlorinated hydrocarbons. They can carry over into the air distribution system and chemically attack and possibly rupture the bowls. On these applications use a metal bowl. Also do not expose these polycarbonate plastic bowl to materials such as carbon tetrachloride, trichloroethylene, acetone, paint thinner cleaning fluids, or other harmful materials, for they too will craze and/or rupture the bowl. If materials harmful to polycarbonate are present either outside or inside the bowl, use a metal bowl.

### INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS

#### INSTALLATION

**PIPING** - Before installing, blow out pipe line to remove scale and other foreign matter. This unit has DRYSEAL pipe threads, use pipe compound or tape sparingly to male threads only. Install lubricator with bowl vertical in pipe line so that air flow in direction indicated on lubricator body. Install as near as possible to equipment to be lubricated. To assure trouble-free performance a filter should be installed upstream of the lubricator.

**LUBRICANT**- For average conditions, the use of a high quality SAE 10 (S.U.V. 150-200 Sec. @ 38° C) oil is recommended. Other lubricating oils as specified by the maker of the equipment to be lubricated may be used if not heavier than SAE 40 (S.U.E. 800 Sec. @ 38° C), Caution : Do not use oils that are not compatible with polycarbonate plastic. See above warning.

**NOTE :** The oil and its container must be clean as dirt will clog the lubricator necessitating shut-down and cleaning.

#### FITTING AND ADJUSTMENT

Depressurize by slowly removing fill plug and fill to within G1/4 of top of bowl using correct oil. Reassembly fill plug correctly. The red knob is factory set so that when turned to zero (0) no oil is delivered to the venturi for atomization and equipment is not being lubricated.

Turn on the air to start flow and set knob to obtain the desired drops per minute-visible through the sight glass. As a start one drop per minute is suggested, correct lubrication being a matter of experience and demand. Clockwise rotation of knob decreases oil feed rate. To check lubrication, hold the thumbnail or a mirror near the equipment exhaust a heavy film indicates over-lubrication and the drops per minute should be reduced by turning knob to a lower setting.

#### MAINTENANCE-CLEANING

If both air and oil are kept clean and the oil level never allowed below end of tube in the bowl, the lubricator should provide long periods of unattended service. Cessation of oil dripping through the sight glass, irrespective of knob adjustment is an indication that cleaning is necessary.

To clean it is not necessary to remove lubricator from the line. Depressurize and disassemble using drawing on reverse side as a guide in most instances, cleaning is needed only in the oil metering area. Pull off adjusting knob, unscrew retainer, remove needle valve and clean parts with methanol-making sure hole in seat is clear. Blow out lubricator body with compressed air before reassembly. **CLEAN PLASTIC BOWL ONLY WITH HOUSEHOLD SOAP WATER.**

SEE OTHER SIDE FOR REPLACEMENT PARTS LIST.

## AIR PROCESSING PRODUCTS

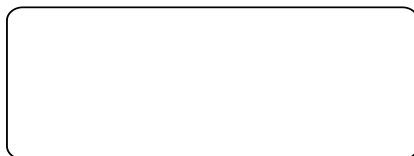
### Shah Pneumatics

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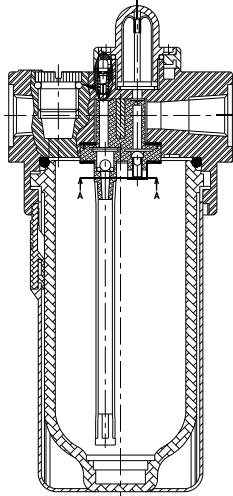
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**MODEL - L 401 / L 410  
REPLACEMENT PARTS  
ORDER BY SIZE AND KIT NUMBER**



CONSISTS OF PART NAME	KIT NAME	KIT No.
Sight Glass Inner Outer and Seals	Sight Glass Kit	L201-SG
Bowl without Draincock	Bowl Replacement Kit	L 401 -B
		Plastic L 401 - BAM
Bowl 'O' Ring	Bowl 'o' ring	F401 - BO
Fill plugs with 'o' rings	Fill plug kit	L201- FP

**METAL BOWL**

