# **Pneumatic Division**

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Installation & Service Instructions IS-L20

QIX® Air Line Lubricators Type L20

ISSUED: September, 2005

Doc. #ISL20, ECN #050388, Rev. 1

# **№** 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.

# Introduction

A unique feature of the QIX® series is the option of changing pipe size to accommodate 1/4" through 1" sizes. To change insert (prior to installation), simply remove both insert pins and pull insert in direction away from pin hole. Install new (size) insert or universal combination insert (for combination unit) ensuring O-ring is in place and insert is firmly seated prior to insert of pins. Follow these instructions when installing, operating, or servicing the product.

# **Application Limits**

These products are intended for use in general purpose compressed air systems only.

#### **Operating Pressure:**

kPa PSIG bar Maximum Inlet Pressure 1723 250 17.0

Ambient Temperature Range: 4°C to 66°C (40°F to 150°F)

**ANSI Symbols** 



#### Installation

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 will flow in direction indicated by arrow 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 high quality SAE #10 (S.U.V. 150-200 SEC @ 100°F) oil is recommended. Other lubricants, as specified by the maker of the equipment to be lubricated, may be used if not heavier than SAE #40 (S.U.V. 800 SEC @ 100°F). Note: The oil and its container must be clean as dirt will clog the lubricator necessitating shut-down and cleaning.

## **Filling**

Lubricators can be filled under pressure, and without shutting down equipment. Slowly remove either fill plug and fill to within 1/2" of top of bowl using correct oil.

# **Adjustment**

The "Dial Set" knob is factory set so that, when turned fully clockwise, no oil is delivered to the venturi for atomization, and equipment is not being lubricated. To adjust oil drip rate, turn on the air, start flow and set knob to obtain the desired drip rate, which is visible through the sight dome. As a start, one to two drops 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 thumbnail or a mirror near the equipment exhaust. A heavy film indicates over-lubrication and the drip rate should be reduced by turning knob to a lower setting.

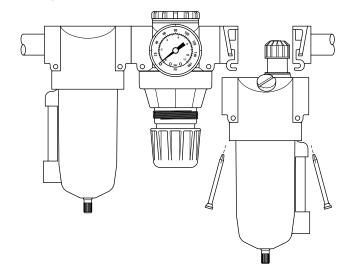
### Maintenance

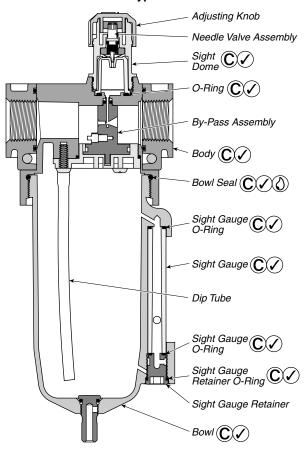
If both air and oil are kept clean, and the oil level never allowed below end of tube in the bowl, the lubricator should provide long periods of unattended service. Cessation of oil dripping through the sight dome, irrespective of knob adjustment, is an indication that cleaning is necessary.

#### Cleaning

To clean, it is not necessary to remove lubricator from the line. Depressurize and disassemble using the drawing on reverse as a guide. In most instances, cleaning is needed only in the oil metering area. Pull off adjusting knob, unscrew sight dome assembly, remove inner drip spout and clean with household soap. METAL BOWLS WITH SIGHT GAUGE AND SIGHT DOME MUST BE CLEANED WITH HOUSEHOLD SOAP ONLY.

For servicing or replacement, depressurize, remove insert retaining pins and remove unit from air line as shown below.





- (1) Lightly grease with provided lubricant.
- Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- C Clean with lint-free cloth.

## Service Kits / Parts Available

Description	Kit Number
Sight Dome Repair Kit (Sight Dome, Sight Dome O-Ring, Needle Valve, Needle Valve O-Ring, Tamperproof Knob, Drip Spout, Drip Spout O-Ring, Adjusting Cap)	RKL100/20SA-2/M1
By-Pass Repair Kit [By-Pass Disc Retainer, By-Pass Plate Screws (3), By-Pass Seal, By-Pass Plate Assembly, By-Pass Disc (2), Plate O-Ring, O-Ring]	RKL20A
Bowl, Replacement Kit w/Drain Cock (Bowl and Sight Gauge, Bowl O-Ring)	BKF21WA*
Sight Gauge Repair Kit (Sight Gauge, Sight Gauge O-Ring, Indicator Float, Sight Gauge Retainer, Retainer O-Ring)	RKB605WB

<sup>\*</sup> Bowl kit without manual drain no longer available (use BKF21WA).

#### **Accessories**

Description	Kit Number
Wall Mount Kit	MK20-0100

# Extra (Pipe Port) Insert Kits and Combination Unit Interface Insert

Pipe Port Size	Kit Number
1/4"	IK20Y
3/8"	IK20X
1/2"	IK20A
3/4"	IK20B
1"	IK20C
Combination	IK20CC

Note: Kit includes two pipe port inserts. "O" rings and pins.

# **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

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