

# 1/2" Micro-Fog and Oil-Fog Lubricator Installation & Maintenance Instructions

## TECHNICAL DATA

### Lubricator types:

Micro-Fog models are equipped with a red adjustment (item 6)

Fluid: Compressed air

Maximum pressure:

Metal bowl: 17 bar (250 psig)

Operating temperature\*:

Metal bowl: -20° to +80°C (0° to +175°F)

\* Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Port size: 1/2"

Thread form: PTF, or ISO G

Bowl: Metal with liquid level indicator

Start point (minimum flow required for lubricator

operation) at 6,3 bar (90 psig) inlet pressure:

0,71 dm<sup>3</sup>/s (1.5 scfm)

Maximum recommended flow: 28 dm<sup>3</sup>/s (60 scfm). Air flows above 28 dm<sup>3</sup>/s (60 scfm) create excessive air velocity, turbulence, and pressure losses. In addition, the fog produced by the lubricator will wet out on the pipe walls and will not be carried by the compressed air to the point of application.

Typical flow with 6,3 bar (90 psig) inlet pressure and 0,5 bar (7 psig) pressure drop:

Micro-Fog models: 65 dm<sup>3</sup>/s (138 scfm)

Nominal bowl size: 0,1 litre (3,5 fluid ounce)

Manual drain connection: 1/8"

Materials:

Body: Aluminum

Bowl:

Metal: Aluminum

Metal bowl liquid level indicator lens: Transparent nylon

Sight-Feed dome: Transparent nylon

Elastomers: Neoprene and nitrile

## REPLACEMENT ITEMS

Service kit (includes items circled on

exploded view).....8940169074

Liquid level lens kit (43, 45, 46, 47).....8940169080

Manual drain (37, 38, 39) .....8940169085

## INSTALLATION

1. Shut-off air pressure. Install lubricator in air line -

- vertically (reservoir down),
- with air flow in direction of arrow on body,
- downstream of filters and regulators
- upstream of cycling valves,
- as close as possible to the device being lubricated

2. Connect piping to proper ports using pipe thread sealant on male threads only. Do not allow sealant to enter interior of unit.

3. Push reservoir, or reservoir with guard, into body and turn fully clockwise before pressurizing.

## RECOMMENDED LUBRICANTS

Fill reservoir with a good quality, light, misting type oil for compressed air tools. Fill to maximum fill line on transparent reservoirs. Oil level must always be visible in lens on metal reservoirs. **DO NOT OVERFILL.**

## FILL RESERVOIR (MICRO-FOG LUBRICATORS)

Shut off inlet air pressure and reduce pressure in reservoir to zero. Remove fill plug (2), add oil, and reinstall fill plug. **Do not remove the fill plug when the reservoir is pressurized, as oil will blow out the fill plug hole.** Micro-fog lubricators can be filled under pressure only if equipped with the optional quick fill cap (4), which requires a quick fill connector and oil pump.

**NOTE:** Oil fill plug (2) seals easily. Tighten finger-tight only.

## ADJUSTMENT

1. Turn on system pressure.

2. Adjust lubricator drip rate only when there is a constant rate of air flow thru the lubricator. Monitor drip rate thru sight feed dome (6).

3. **Micro-Fog Lubricators** - Determine the average rate of flow thru the lubricator. Turn slotted red rotator in sight feed dome (6) to obtain the recommended drops per minute. **See Drip Rate Chart.** Turn rotator counterclockwise to increase and clockwise to decrease the drip rate. Total travel of rotator is 320°.

### Drip Rate Chart for Micro-Fog Lubricators

Flow - dm <sup>3</sup> /s (scfm)	Drops per Minute
2 (5)	3
5 (10)	4
10 (20)	7
15 (30)	9
20 (40)	12
25 (50)	15

4. Monitor the device being lubricated for a few days following initial adjustment. Adjust the drip rate if the oil delivery at the device appears either excessive or low.

## DISASSEMBLY

1. Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero. Loosen fill plug (2).

2. Remove reservoir - push into body and turn counterclockwise.

3. Disassemble in general accordance with the item numbers on exploded view. Do not remove siphon tube (49). Remove and replace items 50 thru 55 only if lubricator malfunctions. O-ring (55) is only used on Micro-Fog lubricators.

## CLEANING

1. Clean parts using warm water and soap.

2. Dry parts. Blow out internal passages in body with clean, dry compressed air.

3. Inspect parts. Replace parts found to be damaged.

## ASSEMBLY

1. Assemble lubricator as shown on exploded view.

- |                                   |                       |
|-----------------------------------|-----------------------|
| 2 (Fill Plug), 4 (Quick-fill cap) | 1,1 to 1,6 (10 to 14) |
| 6, 8 (Dome)                       | 2,3 to 2,8 (20 to 25) |
| 43 (Screw)                        | 1,7 to 3,4 (15 to 30) |
| 50 (Screw)                        | 2,0 to 2,5 (18 to 22) |

4. Push reservoir into body and turn fully clockwise.

## WARNING

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **Technical Data.**

Polycarbonate plastic reservoirs can be damaged and possibly burst if exposed to such substances as certain solvents, strong alkalis, compressor oils containing ester-based additives or synthetic oils. Fumes of these substances in contact with the polycarbonate reservoir, externally or internally, can also result in damage. Clean with warm water only

Use metal reservoir in applications where a plastic reservoir might be exposed to substances that are incompatible with polycarbonate.

In lubrication applications some oil mist may escape from the point of use to the surrounding atmosphere. Users are referred to safety and health standards for limiting oil mist contamination and utilization of protecting equipment

These products are not designed for use with fluids other than air, for nonindustrial applications, or for life-support systems.

