

# 1/4" Micro-Fog Lubricator Installation & Maintenance Instructions

## TECHNICAL DATA

### Lubricator types:

Micro-Fog models are equipped with a red adjustment (item 4)

Fluid: Compressed air

Maximum pressure:

Metal bowl: 17 bar (250 psig)

Operating temperature\*:

Metal bowl: -20° to +65°C (0° to +150°F)

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

Port size: 1/4" or 3/8"

Thread form: PTF, ISO Rc, or ISO G

Bowl:

Long metal with liquid level indicator

Start point (minimum flow required for lubricator operation) at 6,3 bar (90 psig) inlet pressure:

Micro-Fog models: 0,9 dm<sup>3</sup>/s (2,0 scfm)

Typical flow with 6,3 bar (90 psig) inlet pressure and 0,5 bar (7 psig) pressure drop: 24 dm<sup>3</sup>/s (51 scfm)

Nominal bowl size:

Long bowl: 65 ml (2.2 fluid ounce)

Materials:

Body: Zinc

Bowl:

Metal: Zinc

Metal bowl liquid level indicator lens Transparent nylon

Sight-Feed dome: Transparent nylon

Elastomers: Neoprene, nitrile

## REPLACEMENT ITEMS

Service kit (includes items circled

on exploded view).....8940169073

Liquid level lens kit (25, 27, 28, 29).....8940169079

Manual drain (22, 23, 24) .....8940169085

## INSTALLATION

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

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

## ADJUSTMENT

- Turn on system pressure.
  - Adjust lubricator drip rate only when there is a constant rate of air flow thru the lubricator. Monitor drip rate thru sight feed dome (4).
  - Micro-Fog Lubricators** - Determine the average rate of flow thru the lubricator. Turn slotted red rotator in sight feed dome (4) 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 |
| 0,9 to 2,4 (2 to 5)                       | 7                |
| 2,4 to 14,2 (5 to 30)                     | 8                |
| 14,2 to 18,9 (30 to 40)                   | 9                |
- 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

- Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero. Loosen fill plug (2).
- Remove reservoir - push into body and turn counterclockwise.
- Disassemble in general accordance with the item numbers on exploded view. Do not remove bowl drain or plug unless malfunction occurs and replacement is necessary. Do not remove siphon tube (36). Remove and replace items 31 thru 35 only if lubricator malfunctions.

## CLEANING

- Clean parts using warm water and soap.
- Dry parts. Blow out internal passages in body with clean, dry compressed air.
- Inspect parts. Replace parts found to be damaged.

## ASSEMBLY

- Assemble lubricator as shown on exploded view.
- | Torque Table  |                       |
|---------------|-----------------------|
|               | N-m (Inch-Pounds)     |
| 2 (Fill plug) | 1,0 to 1,2 (9 to 11)  |
| 6 (Dome)      | 2,3 to 2,8 (20 to 25) |
| 25 (Screw)    | 1,9 to 2,5 (17 to 22) |
| 31 (Screw)    | 0,7 to 0,9 (6 to 8)   |
- Push reservoir, or reservoir with guard, 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**.

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.

