

Micro-Fog® Tool Lubricator
L07 - ★★ - ★★

| | | | | | |
|---------------------------------------|----------------------------------|---|------------------------------------|--|--|
| Port 1....1/8" 2....1/4" | Options Not applicable | Lubricator Type M...Micro-Fog | Flow P....Unidirectional | Bowl and Drain A....Transparent with drain M...Metal with drain Q....Transparent without drain | Thread Form A....PTF B....ISO Rc taper G....ISO G parallel |
|---------------------------------------|----------------------------------|---|------------------------------------|--|--|

TECHNICAL DATA

Fluid: Compressed air
Maximum pressure:
Transparent bowl: 10 bar (150 psig)
Metal bowl: 17 bar (250 psig)
Operating temperature*:
Transparent bowl: -20° to +50°C (0° to +125°F)
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).
Start point (minimum flow required for lubricator operation) at 6,3 bar (90 psig) inlet pressure:
0,24 dm³/s (0.5 scfm)
Typical flow with 6,3 bar (90 psig) inlet pressure and 0,5 bar (7 psig) pressure drop:
1/8" Ports: 5 dm³/s (10 scfm)
1/4" Ports: 6,7 dm³/s (14 scfm)
Nominal bowl size: 31 ml (1 fluid ounce)
Manual drain connection: 1/8" pipe thread
Materials:
Body: Zinc
Reservoir:
Transparent: Polycarbonate
Metal: Zinc
Sight-Feed dome: Transparent nylon
Elastomers: Neoprene, nitrile

REPLACEMENT ITEMS

Service kit (includes items circled
on exploded view)3795-03
Manual drain (8, 12, 24, 31)773-03

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.
- Turn reservoir fully clockwise into body before pressurizing.

FILL RESERVOIR WITH OIL

Shut off inlet air pressure and reduce pressure in reservoir to zero. Remove reservoir and fill with a good quality, light, misting type oil for compressed air tools. See Norgren publication N/AL.8.900.935. Fill to maximum fill line on reservoir. **DO NOT OVERFILL.** Reinstall reservoir and turn fully clockwise into body before pressurizing. Tighten as specified in **Torque Table**.

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 (3, 14).
- Determine the average rate of flow thru the lubricator. Turn red rotator in sight feed dome 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°.
- 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.

Drip Rate Chart

| Flow - dm³/s (scfm) | Drops per Minute |
|---------------------|------------------|
| 0,24 (0.5) | 4 |
| 0,47 (1) | 5 |
| 0,94 (2) | 8 |
| 1,42 (3) | 10 |
| 1,89 (4) | 12 |
| 2,36 (5) | 14 |
| 2,83 (6) | 16 |
| 3,30 (7) | 19 |
| 3,78 (8) | 21 |
| 4,25 (9) | 23 |
| 4,72 (10) | 25 |

DISASSEMBLY

- Lubricator can be disassembled without removal from air line.
- Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero.
- Turn reservoir counterclockwise and remove from body.
- Disassemble in general accordance with the item numbers on exploded view. Do not remove manual drain unless replacement is necessary. Remove and replace only if drain malfunctions. Do not attempt to remove siphon tube on early models, as these parts are permanently assembled.

CLEANING

- Clean plastic reservoir with warm water only. Clean other 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. If plastic reservoir shows signs of cracking or cloudiness, replace with a metal reservoir.

ASSEMBLY

- Lubricate seals and o-rings with o-ring grease. Apply a small amount of anti-seize lubricant to full length of threads on metal reservoirs.
- Assemble lubricator as shown on exploded view.
- Torque Table

| | |
|-----------------------------------|------------------------|
| | N-m (Inch-Pounds) |
| 3, 14 (Dome) | 2,3 to 2,8 (20 to 25) |
| 9, 10, 13, 25, 28, 32 (Reservoir) | 0,56 to 1,13 (5 to 10) |

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.

Before using these products with fluids other than air, for nonindustrial applications, or for life-support systems consult Norgren.

