**INSTALLATION**

1. Install yoke in air line -
   - **Thread Type**
     - A...PTF
     - B...ISO R1, tapered
     - Q...Manual, 1/4 turn
     - R...Remote fill
   - **Type**
     - P...Unidirectional
   - **Drain**
     - E...Closed bottom
     - M...Manual, spindle type
     - Q...Manual, 1/4 turn
     - R...Remote fill
   - **Fill Reservoir (Oil-Fog Lubricators)**
     - Oil-Fog: 187 dm³/s (396 scfm)
     - Oil-Fog: 6 dm³/s (13 scfm)
   - **Flow - dm³/s (scfm) Drops per Minute**
     - 12 (25) 21
     - 24 (50) 42
     - 35 (75) 54
     - 47 (100) 66
     - 59 (125) 78
     - 71 (150) 90
     - 83 (175) 102
     - 94 (200) 114
     - 106 (225) 126
     - 118 (250) 138
     - 130 (275) 150
   - **Recommended Lubricants**
     - Fill reservoir with a good quality, light, misting type oil for compressed air tools. See our publication N/AL.8.900.935.

**TECHNICAL DATA**

Fluid: Compressed air

Maximum pressure: 17 bar (250 psig)

Operating temperature*: -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 (i.e. minimum flow required for lubricator operation) at 6.3 bar (90 psig) inlet pressure:
- Micro-Fog: 6 dm³/s (13 scfm)
- Oil-Fog: 200 dm³/s (424 scfm)
- Oil-Fog: 187 dm³/s (396 scfm)

Nominal bowl sizes:
- 0.5 litre bowl liquid level lens (19 thru 27) ............4380-060
- 1 litre bowl liquid level lens (30 thru 38) ............4380-061

Service kit (items circled on exploded view)

**REPLACEMENT ITEMS**

Materials:
- Recommended lubricants: See page N/AL.8.900.935.
- Elastomers: Synthetic rubber
- Steel
- Aluminium

Options
- N...None
- Q...Quick fill nipple

**RECOMMENDED LUBRICANTS**

Fill reservoir with a good quality, light, misting type oil for compressed air tools. See our publication N/AL.8.900.935.

FILL RESERVOIR (OIL-FOG LUBRICATORS)

Remove fill plug (14), add oil, and reinstall fill plug. Fill plug can be removed and oil added without shutting off air pressure to the lubricator. 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 (14), add oil, and reinstall fill plug. Do not remove the fill plug when the reservoir is pressurized, as oil will spurt from the fill plug hole.

Micro-Fog lubricators can be filled under pressure only if equipped with the optional quick fill cap (16), which requires a quick fill connector and oil pump. Oil level must always be visible in lens on metal reservoirs. DO NOT OVERFILL.

**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 (9).

**OIL-Fog Lubricators - Oil-Fog lubricators are equipped with a green locking on sight-feed dome (9). Determine the average rate of flow thru the lubricator.**

Turn knob (9) to obtain one drop per minute for each 5 dm³/s (10 scfm). For example, if the average flow is 19 dm³/s (40 scfm), set the drip rate at 4 drops per minute. Turn knob counterclockwise to increase and clockwise to decrease the drip rate. Push green locking down to lock drip rate setting; pull up to release.

**Micro-Fog Lubricators - Micro-Fog lubricators are equipped with a red locking on sight-feed dome (9). Determine the average rate of flow thru the lubricator.**

Turn knob (9) to obtain the recommended drops per minute. See **Drip Rate Chart**. Turn knob counterclockwise to increase and clockwise to decrease the drip rate. Push red lock-ring down to lock drip rate setting; pull up to release.

**Drip Rate Chart for Micro-Fog Lubricators**

<table>
<thead>
<tr>
<th>Flow - dm³/s (scfm)</th>
<th>Drops per Minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 (10)</td>
<td>10</td>
</tr>
<tr>
<td>12 (25)</td>
<td>14</td>
</tr>
<tr>
<td>24 (50)</td>
<td>21</td>
</tr>
<tr>
<td>35 (75)</td>
<td>28</td>
</tr>
<tr>
<td>47 (100)</td>
<td>35</td>
</tr>
<tr>
<td>59 (125)</td>
<td>41</td>
</tr>
<tr>
<td>71 (150)</td>
<td>47</td>
</tr>
<tr>
<td>83 (175)</td>
<td>54</td>
</tr>
<tr>
<td>94 (200)</td>
<td>60</td>
</tr>
<tr>
<td>106 (225)</td>
<td>66</td>
</tr>
<tr>
<td>118 (250)</td>
<td>73</td>
</tr>
<tr>
<td>130 (275)</td>
<td>80</td>
</tr>
</tbody>
</table>

5. 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.

6. Drip rate setting can be made tamper resistant by installing a seal wire (see Replacement Items) in groove above lock-ring.

**DISASSEMBLY**

1. Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero. Loosen fill plug (14).
2. Unscrew the clamp ring and remove lubricator from yoke.

**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. Lubricate o-rings, the portion of the plug (50) and manual drain body (43) that contacts the bowl, and the hole in the manual drain body that accommodates the stem of drain valve (41) with o-ring grease.

2. Assemble lubricator as shown on exploded view.

3. Insert sensor (3, 7) into retainer (3A, 7A), then orient as shown and press fully into bore. When fully seated, the sensor/retainer is centered between the inlet and outlet ports.

4. Assemble the liquid indicator parts (19 thru 26, 30 thru 37) to reservoir. Apply a 0.9 to 1.8 kg (2 to 4 pound) clamping force to upper and lower sight glass brackets (20, 31). Tighten screws (19, 30).

5. Torque Table

<table>
<thead>
<tr>
<th>N-m (Inch-Pounds)</th>
<th>N-m (Inch-Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9, 12 (Dome)</td>
<td>2.0 to 2.8 (18 to 25)</td>
</tr>
<tr>
<td>19, 30 (Screw)</td>
<td>1.8 to 2.3 (16 to 20)</td>
</tr>
<tr>
<td>45, 52 (Nut)</td>
<td>2.3 to 2.8 (20 to 25)</td>
</tr>
<tr>
<td>57, 59 (Fog generator, check valve)</td>
<td>2.3 to 2.8 (20 to 25)</td>
</tr>
</tbody>
</table>

6. Turn bowl into body until arrowhead on bowl is aligned with or to the right of the arrowhead on the body.

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