

# SUPER DUTY LUBRICATOR

## L264 X 1-110

PORT SIZE  
3/4" - 5  
1" - 6  
1-1/4" - 7  
1-1/2" - 8

## L264X1-110

RELEASED: 5-1-98

REVISED:

(REV.)

### TECHNICAL SPECIFICATIONS

#### OPERATION CONDITIONS

Maximum Inlet Air Pressure: 250 p.s.i.g. (17.2 bar)

Maximum Temperature: 175°F (79°C)

Recommended operating flow range at 100 psig (6.9 bar) inlet pressure and 5 psid (0.34):

3/4" ports: 8 to 160 scfm (3.8 to 75.5 dm<sup>3</sup>/s),

1, 1-1/4, 1-1/2" ports: 8 to 275 scfm (3.8 to 129.8 dm<sup>3</sup>/s)

**Recommended lubricants:** Use a misting type oil rated 150 to 200 SSU (ISO Grade 7 to 46) at 100F (38C). The oils used shall be compatible with materials of construction. Contact your lubricant supplier and the builder of the equipment being lubricated to obtain specific lubricant recommendations. Suggested lubricant ARO P/N 29665.

#### MATERIALS OF CONSTRUCTION

**MODELS:** See chart above

**Body:** Aluminum

**Reservoir:** 1 quart Aluminum

**Reservoir Sight Glass:** Pyrex.

**Sight-feed dome:** Standard: Transparent nylon  
Optional: Pyrex and aluminum

**Elastomers:** Neoprene and Buna "N"

### OPERATING AND SAFETY PRECAUTIONS

- Use only genuine ARO replacement parts to assure compatible pressure rating and performance.
- Read carefully all warnings and safety precautions and heed the following before operating, to avoid personal injury and/or property damage.
- Be certain anyone operating this equipment has been trained to use it safely.

**⚠ WARNING COMPONENT RUPTURE.** Do not exceed maximum rated operating pressure as stated in technical specifications. To avoid possible damage or personal injury, DO NOT expose the unit to excessive pressure beyond the intended working range.

**⚠ WARNING TEMPERATURE LIMITS.** do not exceed maximum temperature limits as stated in **TECHNICAL SPECIFICATIONS**. Excessive temperature can affect non-metallic parts which may weaken them and cause failure.

**⚠ WARNING USE WITH INDUSTRIAL COMPRESSED AIR SYSTEMS ONLY.** Do not use with bottled gas products or fluids. Misapplications can result in component failure.

**⚠ WARNING DISASSEMBLY HAZARD.** Do not disassemble this unit when it is under pressure. shut off and relieve air supply before attempting service or disassembly procedures. Isolate the unit by closing the line valve or disconnect the supply line or hose.

**⚠ WARNING ATMOSPHERIC OIL HAZARD.** In lubrication applications some oil mist may escape from the point of use to the surrounding atmosphere. Users are referred to OSHA safety and health standards for limiting oil mist contamination and using protecting equipment.

### ⚠ WARNING DO NOT USE DEGREASERS OR SOLVENTS

**TO CLEAN POLYCARBONATE BOWLS.** Exposure internally or externally to incompatible chemicals or their vapors or fumes could attack and weaken polycarbonate material, causing failure.

DO NOT EXPOSE to acetone, trichloroethane, gasolene, alcohols, key-tones, esters, chlorinated hydrocarbons, toluene, etc.

Clean polycarbonate bowls with soap and water or kerosene only. USE COMPATIBLE LUBRICATING OILS ONLY. Lubricating oils used in plastic bowls must be compatible with polycarbonate plastic (some "fire resistant" oil additives are not compatible). Fumes of these substances in contact with polycarbonate bowls internally or externally can also damage the bowl. Consult Aro catalog or the Aro Corporation, Bryan, Ohio 43506 for comprehensive listings of harmful chemicals and compatible listings of harmful chemicals and compatible lubricating oils. If questions arise, request form no. 4424.

### INSTALLATION

- Install lubricator vertically in air line and as close as possible to the device being lubricated.
- Install downstream of filters and regulators and upstream of cycling valves
- Install with air flow in direction of arrow on body.
- Connect piping to proper ports using pipe thread sealant on male threads only. Do not allow sealant to enter interior of lubricator.
- Air line piping should be the same size as lubricator ports.
- Shut off air pressure and reduce pressure in reservoir to zero. Remove fill plug (5) add oil, and reinstall fill plug. Do not remove the fill plug when reservoir is pressurized, as oil will blow out the fill plug hole. Lubricators can be filled under pressure only if equipped with the optional quick fill cap (7), which requires a quick fill connector and oil pump.
- Fill reservoir with a good quality lubricant (PN 29665) to level indicated by the maximum fill line on the reservoir. If equipped with sight glass, oil should always be visible in glass. DO NOT OVERFILL.
- Before applying air pressure, be sure reservoir is tight. See Step 4 of Assembly.

### ADJUSTMENT

1. Turn lubricator oil drip rate adjusting knob fully clockwise, then turn on system air 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.
3. Determine the average rate of flow thru the lubricator. Turn slotted red rotator in sight feed dome (8) to obtain the recommended drops per minute. See Drip rate chart.
  - Turn rotator **counterclockwise to increase** the drip rate.
  - Turn rotator **clockwise to decrease** the drip rate.Total travel of rotator is 320°.
4. Monitor the device being lubricated for a few days following initial adjustment. Readjust the drip rate if the oil delivery at the device appears either excessive or low.

DRIP RATE CHART

3/4" PORTS				1", 1-1/4" AND 1-1/2" PORTS			
Avg. scfm	Drops per Minute	Avg. scfm	Drops per Minute	Avg. scfm	Drops per Minute	Avg. scfm	Drops per Minute
10	8	100	18	10	10	150	47
20	10	120	20	25	14	175	54
40	12	140	22	50	21	200	60
60	14	160	24	75	28	225	66
80	16			100	35	250	73
				125	41	275	80

**ARO**

INGERSOLL-RAND COMPANY  
ONE ARO CENTER • BRYAN, OHIO 43506-0151  
☎ (419) 636-4242 • FAX (419) 633-1674 ©1998 • PRINTED IN U.S.A.

**INGERSOLL-RAND**  
**FLUID PRODUCTS**

## MAINTENANCE

### CLEANING

- Dry parts and blow out internal passages in body using dry compressed air.
- Inspect and replace any parts found to be worn or damaged.

### SERVICE KITS

Repair Kits are universal and may contain items not used on your product. Always replace used parts with identical parts from the kit.

## SERVICE

### DISASSEMBLY

1. Shut off air inlet pressure and reduce pressure in lubricator to zero.  
Loosen the fill plug.  
Lubricator can be disassembled without removal from the air line.
2. Disassemble in accordance with the exploded view.

### REASSEMBLY

1. Lubricate seals and O-rings with a small amount of good quality O-ring grease, then assemble the lubricator as shown on the exploded view.
2. Tighten the following items to the specified torque:
 

Item	Torque (in.lbs)
14,26	20-25
3,8	30-35
45	7-10 (Do not overtighten)
3. Assemble sight glass components (17 thru 22) to metal reservoir.  
Apply a 2-4 lb. clamping force to upper and lower sight glass brackets (18) to pull brackets together. Tighten screws (17) 8-10 in.lbs.
4. Turn reservoir into body until arrowhead is inline with or to the right of the arrowhead on the body.

Note: Individual parts are not normally sold.

KIT DESCRIPTION	KIT NO.	ITEM NOS. INCLUDED
Drain Kit (Early models)	104212	14,15,16
Drain Kit (Current)	104241	16A,16B,16C
Sight Glass, 1qt metal bowl (Current)	104163	12,17,20,21,22
Sight Glass,metal bowls (Early models)	104123	42,43,44
Sight Dome Kit	104245	8,8A
Sight Dome Kit (Early models)	104124	8,8A
Seal and Gasket Kit	104118	8A,12,16

## L264X1-110 3/4" to 1-1/2" Lubricator

