

POM Minimum Quantity Oil Pneumatic Lubricator



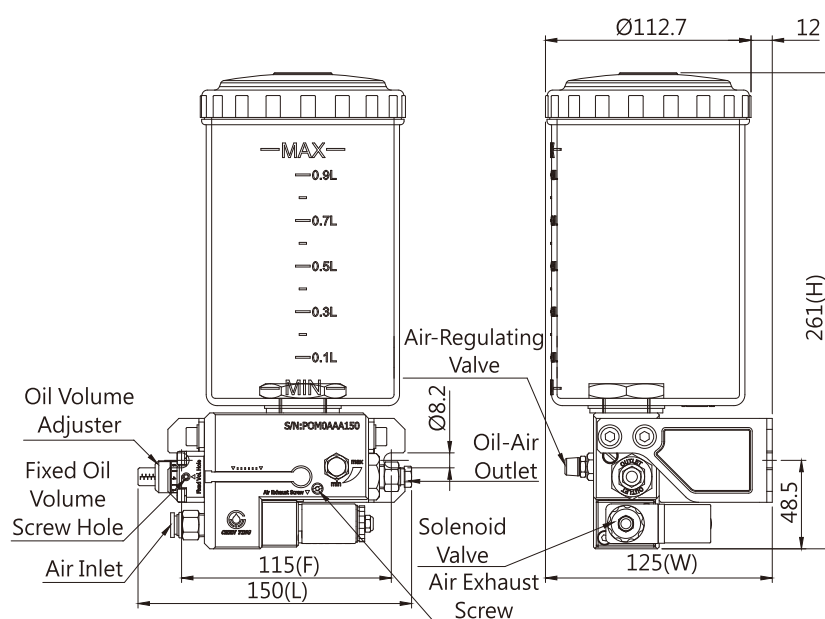
POM-35-1-A-0



POM-01-1-A-0-SC



POM-50-1-1-0-TC-SC



Dimensional Drawing of POM-35-1-A-0

◆ Features

1. The discharge volume of POM is precise and can be adjusted from 0.01cc to 0.08cc per stroke.
2. POM can be actuated either by a frequency generator or a solenoid valve.
 - The pneumatic pressure supply drives the frequency generator, and the user can adjust each stroke frequency upon demand. The service life is ten million cycles.
 - The input voltage powers the solenoid valve, and the PLC can precisely control its stroke frequency. The solenoid valve works as the ON/OFF switch of the pneumatic pressure supply. The service life is two million cycles.
3. POM requires 4-8kgf/cm² pneumatic pressure supply to operate.
4. The standard POM has one outlet, which can be increased to four on request. Do not plug any outlet of POM.
5. POM has an oil volume adjuster for adjusting the discharge volume. The fixed oil volume screw hole secures the oil volume adjuster to prevent its setting from being changed.
6. The air-regulating valve can adjust the air volume upon the need. Turn the air-regulating valve clockwise to decrease the air volume and turn it anti-clockwise to increase the air volume.
7. All POM lubricators have 80-mesh oil filters. The oil inlet of the 2L-square tank has an additional 40-mesh oil filter to filter the impurities.
8. Each outlet of POM can add a reed switch to detect if stroke movements are regular.
9. 2L square tank and 2000cc cylindrical tank can add a float switch to detect oil level automatically.
10. Recommend using vegetable oil viscosity 22~68cSt@40 °C. Forbid filling cutting fluid and volatile lubricants, such as alcohols and ethylene glycol-based lubricants.

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◆Dimensional Data

| Model | Tank Capacity | Mounting Hole Distance (mm) | Oil-Air Outlet Number | Length (mm) | Width (mm) | Height (mm) | | N.W. (kg) | |
|--------|-----------------------------|-----------------------------|-----------------------|-------------|------------|----------------------|-------------------|----------------------|-------------------|
| | | | | | | Without Float Switch | With Float Switch | Without Float Switch | With Float Switch |
| POM-01 | 2L Square Oil Tank | 115 | 1 | 169 | 121 | 247 | 273 | 2.3 | 2.4 |
| | | | 2 | | | 275 | 301 | 2.7 | 2.8 |
| | | | 3 | | | 304 | 330 | 3.1 | 3.2 |
| | | | 4 | | | 332 | 358 | 3.4 | 3.6 |
| POM-35 | 1000cc Cylindrical Oil Tank | 115 | 1 | 150 | 125 | 261 | -- | 1.5 | -- |
| | | | 2 | | | 290 | -- | 2.0 | -- |
| | | | 3 | | | 318 | -- | 2.4 | -- |
| | | | 4 | | | 347 | -- | 2.8 | -- |
| POM-50 | 2000cc Cylindrical Oil Tank | 115 | 1 | 154 | 135 | 346 | 394 | 1.7 | 1.9 |
| | | | 2 | | | 374 | 423 | 2.1 | 2.3 |
| | | | 3 | | | 403 | 451 | 2.5 | 2.7 |
| | | | 4 | | | 431 | 480 | 2.9 | 3.1 |

◆Technical Data

| Method of Actuation | Solenoid Valve | | | Frequency Generator |
|---------------------|--|--------|-------|---------------------|
| Voltage | AC110V | AC220V | DC24V | -- |
| Ampere | 0.1A | 0.1A | 0.2A | -- |
| Pneumatic Pressure | 4-8kgf/cm ² | | | |
| Discharge Volume | 0.01cc-0.08cc/stroke (Adjustable) | | | |
| Air Inlet | Ø8 | | | |
| Oi-Air Outlet | Ø4, Ø6, Ø8 (Ø8 Oil-Air outlet needs to be connected with Ø4xØ8 pipe-in-pipe.) | | | |
| Suitable Viscosity | Vegetable Oil, 22-68cSt@40°C | | | |

◆Pressure Chart (Reference Value)






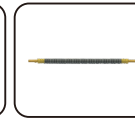

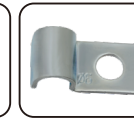

| | | | | | |
|---|-----|-----|-----|-----|-----|
| Pneumatic Pressure (kgf/cm ²) | 4 | 5 | 6 | 7 | 8 |
| Air Consumption (L/min) | 102 | 127 | 145 | 156 | 160 |

◆Order Code

POM ——— 35 ——— 1 ——— 1 ——— 0 ——— ※

| Tank Capacity | | Oil-Air Outlet Number | | Method of Actuation | | Oil-Air Outlet Bore | | Special Request | |
|---------------|-------------------------|-----------------------|-----------|---------------------|-----------------------|---------------------|----|-----------------|-------------------------------|
| 01 | 2L Square Tank | 1 | 1 Outlet | 1 | Frequency Generator | 0 | Ø4 | TC | Add a NC Contact Reed Switch |
| 35 | 1000cc Cylindrical Tank | 2 | 2 Outlets | A | Solenoid Valve, 110V | 1 | Ø6 | TO | Add a NO Contact Reed Switch |
| 50 | 2000cc Cylindrical Tank | 3 | 3 Outlets | C | Solenoid Valve, A20V | 2 | Ø8 | SC | Add a NC Contact Float Switch |
| | | 4 | 4 Outlets | K | Solenoid Valve, DC24V | | | SO | Add a NO Contact Float Switch |

◆Related Products

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |
| P. 100 | P. 100 | P. 100 | P. 111 | P. 109 | P. 124 | P. 123 | P. 127 | P. 125 |