

## Lubricator

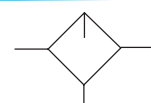
Series **AL10 to 60**

## Features

- ▶ Port size M5 - 1".
- ▶ Part of new modular FRL system.
- ▶ Precise adjustment.
- ▶ Uniform lubrication even at extremely low flow rates.
- ▶ Over 97% of atomised oil particles <10 microns.
- ▶ Sight dome for visual setting.
- ▶ Built in check valve prevents oil falling back into bowl during no air consumption which could cause 'dry period' running.
- ▶ Mounting bracket available.



## Symbol



## Standard specifications

| Model                                                              | AL10                           | AL20   | AL30               | AL40                          | AL40-06 | AL50  | AL60  |
|--------------------------------------------------------------------|--------------------------------|--------|--------------------|-------------------------------|---------|-------|-------|
| Fluid                                                              | Air                            |        |                    |                               |         |       |       |
| Proof pressure                                                     | 1.5MPa                         |        |                    |                               |         |       |       |
| Maximum operating pressure                                         | 1.0MPa                         |        |                    |                               |         |       |       |
| Minimum dripping flow rate [L/min (ANR)]<br><small>Note 1)</small> | 4                              | 15     | 1/4: 30<br>3/8: 40 | 1/4: 30<br>3/8: 40<br>1/2: 50 | 50      | 190   | 220   |
| Oil capacity (cm <sup>3</sup> )                                    | 7                              | 25     | 55                 | 135                           | 135     | 135   | 135   |
| Rated Flow                                                         | 160                            | 3600   | 5500               | 7000                          | 7500    | 12000 | 14000 |
| Recommended lubricant                                              | Class 1 turbine oil (ISO VG32) |        |                    |                               |         |       |       |
| Ambient and fluid temperature                                      | -5 to 60°C (with no freezing)  |        |                    |                               |         |       |       |
| Bowl material                                                      | Polycarbonate                  |        |                    |                               |         |       |       |
| Bowl guard                                                         | —                              | Option | Standard           |                               |         |       |       |
| Weight (kg)                                                        | 0.07                           | 0.20   | 0.24               | 0.47                          | 0.52    | 1.06  | 1.13  |

Notes 1) • The flow rate is 5 drips/min under the following conditions: Inlet pressure of 0.5MPa; Class 1 turbine oil (ISO VG32); Temperature at 20°C; Oil adjustment valve fully open.

• Use air consumption flow rate for minimum dripping flow rate.

◎: Combination available

○: Varies depending on the model

□: Combination not available

## Accessory/Optional specification combinations

| Combination                       | Accessory | Applicable lubricator |
|-----------------------------------|-----------|-----------------------|
| Accessory/Optional specifications | B         | AL10 AL20 AL30 to 60  |
| Accessory With bracket            | B         | ◎ ◎ ◎                 |

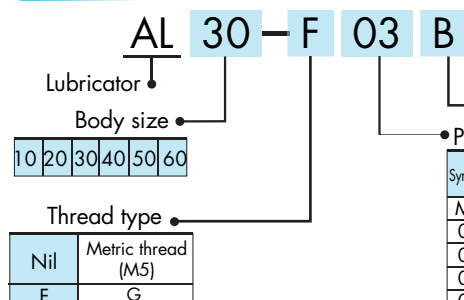
## Accessory part no.

| Accessory                               | Applicable model | AL10 | AL20        | AL30        | AL40        | AL40-06     | AL50        | AL60        |
|-----------------------------------------|------------------|------|-------------|-------------|-------------|-------------|-------------|-------------|
| Bracket assembly <small>Note 1)</small> | —                | —    | AF20P-050AS | AF30P-050AS | AF40P-050AS | AF40P-070AS | AF50P-050AS | AF50P-050AS |

\* The part number for Bracket assembly for 1000cm<sup>3</sup> is AF50P-050AS (applicable to AL30 to AL60).

Note 1) Assembly includes a bracket and 2 mounting screws.

## How to order

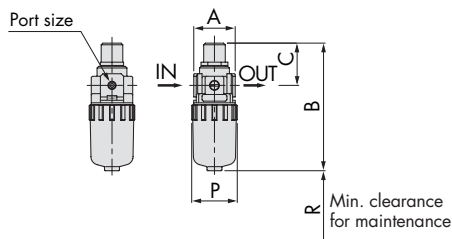
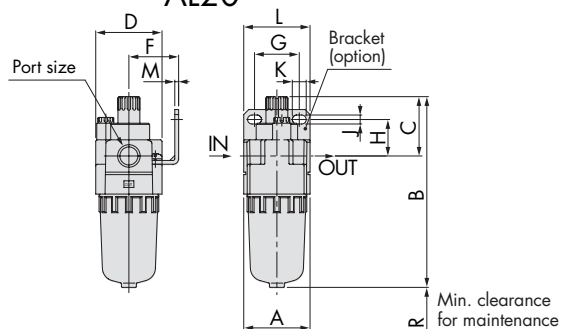
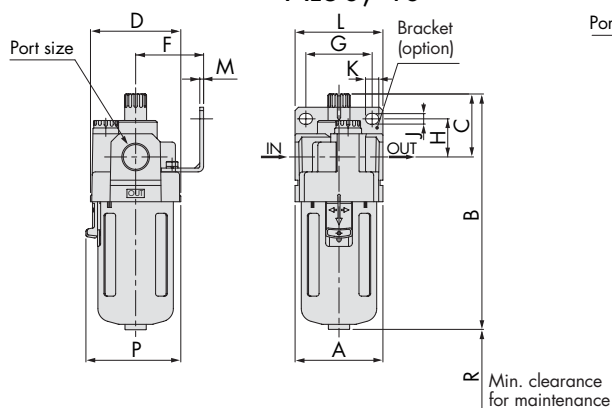
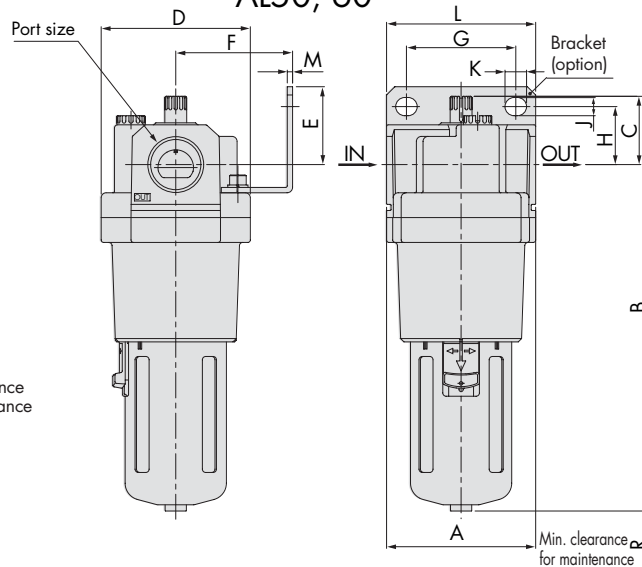


| Symbol | Port size | Body size |    |    |    |    |    |
|--------|-----------|-----------|----|----|----|----|----|
|        |           | 10        | 20 | 30 | 40 | 50 | 60 |
| M5     | M5        | ●         | —  | —  | —  | —  | —  |
| 01     | 1/8       | —         | ●  | —  | —  | —  | —  |
| 02     | 1/4       | —         | ●  | ●  | —  | —  | —  |
| 03     | 3/8       | —         | —  | ●  | ●  | —  | —  |
| 04     | 1/2       | —         | —  | —  | —  | —  | —  |
| 06     | 3/4       | —         | —  | —  | —  | ●  | —  |
| 10     | 1         | —         | —  | —  | —  | ●  | ●  |

| Symbol                   | Description  | Applicable model |
|--------------------------|--------------|------------------|
| Nil                      | —            | —                |
| B <small>Note 1)</small> | With bracket | AL20 to AL 60    |

Note 1) Bracket is not assembled and is supplied loose at the time of shipment.

## Dimensions

**AL10**

**AL20**

**AL30, 40**

**AL50, 60**


| Model   | Port size     | Standard specification |     |    |    |    |     | Accessory specification |    |    |    |     |      |    |     |
|---------|---------------|------------------------|-----|----|----|----|-----|-------------------------|----|----|----|-----|------|----|-----|
|         |               | A                      | B   | C  | D  | P  | R   | Bracket mounting size   |    |    |    |     |      |    |     |
| AL10    | M5            | 25                     | 77  | 26 | 25 | 28 | 35  | —                       | —  | —  | —  | —   | —    | —  | —   |
| AL20    | 1/8, 1/4      | 40                     | 115 | 36 | 40 | —  | 60  | —                       | 30 | 27 | 22 | 5.4 | 8.4  | 40 | 2.3 |
| AL30    | 1/4, 3/8      | 53                     | 142 | 38 | 53 | 57 | 80  | —                       | 41 | 40 | 23 | 6.5 | 8    | 53 | 2.3 |
| AL40    | 1/4, 3/8, 1/2 | 70                     | 176 | 40 | 70 | 73 | 110 | —                       | 50 | 54 | 26 | 8.5 | 10.5 | 70 | 2.3 |
| AL40-06 | 3/4           | 75                     | 176 | 38 | 70 | 73 | 110 | —                       | 50 | 54 | 25 | 8.5 | 10.5 | 70 | 2.3 |
| AL50    | 3/4, 1        | 90                     | 250 | 41 | 90 | —  | 110 | 47                      | 70 | 66 | 35 | 11  | 13   | 90 | 3.2 |
| AL60    | 1             | 95                     | 268 | 45 | 95 | —  | 110 | 47                      | 70 | 66 | 35 | 11  | 13   | 90 | 3.2 |

## Replacement parts

| Applicable Model | AL10    | AL20       | AL30       | AL40       | AL50       | AL60    |
|------------------|---------|------------|------------|------------|------------|---------|
| Spares Kit       | KT-AL10 | KT-AL20-02 | KT-AL30-03 | KT-AL40-04 | KT-AL50-06 | KT-AL60 |

AL10 spares kit includes sight dome assembly

AL20 to AL60 spares kit includes sight dome assembly, lubricator plug assembly, damper retainer assembly and damper