

| Actuator Specifications   |              |                                  |                                  |                                    |                        |                |                            |
|---|--------------|----------------------------------|----------------------------------|------------------------------------|------------------------|----------------|----------------------------|
| Lead and Payload (Note 1) Please note that the maximum load capacity decreases as the speed increases. Stroke and Maximum Speed |              |                                  |                                  |                                    |                        |                |                            |
| Model number  | Lead<br>(mm) | Max. Load Cap<br>Horizontal (kg) | oacity (Note 1)<br>Vertical (kg) | Maximum Push<br>Force (N) (Note 2) | Stroke<br>(mm)         | Stroke<br>Lead | 50~300<br>(every 50mm)     |
| RCP2W-RA6C-I-56P-16-①-②-③-④   | 16           | ~40                              | ~5                               | 240                                |                        | 16             | 320 <265>                  |
| RCP2W-RA6C-I-56P-8-①-②-③-④  | 8            | 50                               | ~17.5                            | 470                                | 50~300<br>(every 50mm) | 8              | 200                        |
| RCP2W-RA6C-I-56P-4-①-②-③-④  | 4            | 55                               | ~26                              | 800                                |                        | 4              | 100                        |
|   |              |                                  | 1                                |                                    |                        | ATL 1 1        | 1 I.I. P. I. W. (01.9) (A) |

Code explanation 🕥 Stroke ② Applicable controller ③ Cable length ④ Options \*See page A-71 for details on push motion. \*The values enclosed in < > apply to vertical settings. (Unit: mm/s)

See page Standard price

→ A-42

→ A-45

→ A-48

| ①Stroke          |                |
|------------------|----------------|
| ① Stroke<br>(mm) | Standard price |
| 50               | —              |
| 100              | —              |
| 150              | —              |
| 200              | —              |
| 250              | —              |
| 300              | _              |
|                  |                |

Option code

R

FL

FT

NM

| ③Cable Length  |                                     |                |  |  |
|----------------|-------------------------------------|----------------|--|--|
| Туре           | Cable symbol                        | Standard Price |  |  |
|                | <b>P</b> (1m)                       | —              |  |  |
| Standard       | <b>S</b> (3m)                       | —              |  |  |
|                | <b>M</b> (5m)                       | _              |  |  |
|                | <b>X06</b> (6m) ~ <b>X10</b> (10m)  | —              |  |  |
| Special length | <b>X11</b> (11m) ~ <b>X15</b> (15m) | _              |  |  |
|                | <b>X16</b> (16m) ~ <b>X20</b> (20m) | —              |  |  |
|                | <b>R01</b> (1m) ~ <b>R03</b> (3m)   | —              |  |  |
|                | <b>R04</b> (4m) ~ <b>R05</b> (5m)   | —              |  |  |
| Robot Cable    | R06 (6m) ~ R10 (10m)                | —              |  |  |
|                | <b>R11</b> (11m) ~ <b>R15</b> (15m) | —              |  |  |
|                | <b>R16</b> (16m) ~ <b>R20</b> (20m) | —              |  |  |

\* See page A-59 for cables for maintenance.

## Actuator Specifications

| ltem                                   | Description                             |
|--|---|
| Drive System                           | Ball screw, ø12mm, rolled C10           |
| Positioning repeatability              | ±0.02mm                                 |
| Lost Motion                            | 0.1mm or less                           |
| Rod diameter                           | ø30mm                                   |
| Rod non-rotational accuracy            | ±1.0 degrees                            |
| Protective structure                   | IP65                                    |
| Ambient operating temperature/humidity | 0 to 40°C, 85% RH max. (Non-condensing) |

plash-Proof Type

Name

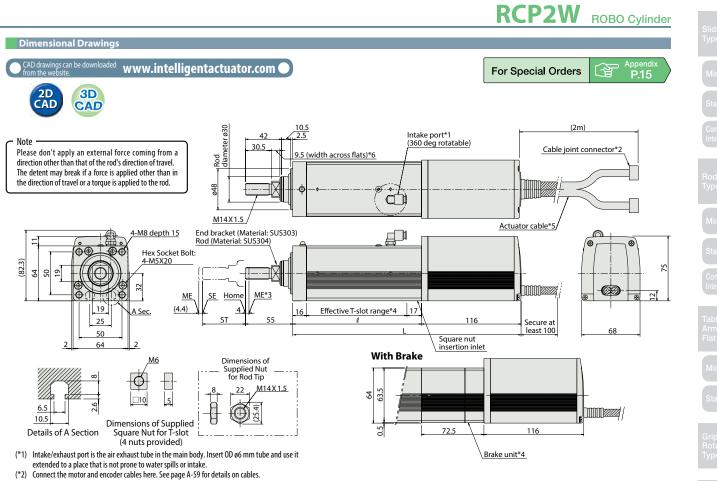
**④Options** 

With foot bracket

Non-motor end specification

With cover

With flange



- (\*2) Connect the motor and encoder cables here. See page A-59 for details on cables. The cable joint connector is not splash-proof; therefore, please secure it in a place that is not prone to water spills.
- (\*3) When homing, the rod moves to the ME; therefore, please watch for any interference with the surrounding objects. ME: Mechanical End
  - SE: Stroke end
- The dimensions enclosed in "()" are reference dimensions.
- (\*4) Please note that there is no T-slot in the bottom of brake unit.
- (\*5) The actuator cable is not a robot cable (flex resistant cable); therefore, please don't use it for movable parts such as cable track.
- (\*6) The orientation of the bolt varies depending on the product.

② Applicable Controllers

| *Adding a brake increases overall         |
|---|
| length by 72.5mm and its weight by 0.9kg. |

## Dimensions and Weight by Stroke

|             |      | · - · j · · · · , |     |     |     |     |  |
|-------------|------|-------------------|-----|-----|-----|-----|--|
| Stroke      | 50   | 100               | 150 | 200 | 250 | 300 |  |
| l           | 1350 | 200               | 250 | 300 | 350 | 400 |  |
| L           | 266  | 316               | 366 | 416 | 466 | 516 |  |
| Weight (kg) | 3.5  | 4.0               | 4.5 | 5.0 | 5.5 | 6.0 |  |

ower-supply

eference page

| Pulse  |  |
|--------|--|
| Motor  |  |
| WIDtor |  |

Servo Motor 24V)

Servo Motor (200V)

Linea Servo

|   |     | PMEC-C-56PI-①-2-①    | Easy-to-use controller, even for beginners                                     |              | AC100V<br>AC200V | Refer to<br>P541 | — | → P537 |
|---|-----|----------------------|--|--------------|------------------|------------------|---|--------|
| Solenoid Valve Type                                     |     | PSEP-C-56PI-①-2-0    | Simple controller operable with the same signal as a solenoid valve            | 3 points     |                  | Refer to<br>P555 | _ | → P547 |
| Solenoid valve multi-axis type<br>PIO specification     | im" | MSEP-C               | Positioner type based on PIO control,<br>allowing up to 8 axes to be connected |              |                  | Refer to         |   | → P563 |
| Solenoid valve multi-axis type<br>Network specification |     | MSEP-C               | Field network-ready positioner type,<br>allowing up to 8 axes to be connected  | 256 points   |                  | P572             | _ |        |
| Positioner type<br>High-output specification            |     | PCON-CA-56PI-①-2-0   | Equipped with a high-output driver<br>Positioner type based on PIO control     | 512 points   |                  |                  | _ |        |
| Pulse-train type<br>High-output specification           |     | PCON-CA-56PI-PL□-2-0 | Equipped with a high-output driver<br>Pulse-train input type                   | (—)          | DC24V            | Refer to<br>P618 | _ | → P607 |
| Field network type<br>High-output specification         |     | PCON-CA-56PI-10-0-0  | Equipped with a high-output driver<br>Supporting 7 major field networks        | 768 points   | DC24v            |                  | _ |        |
| Pulse Train Input Type<br>(Differential Line Driver)    |     | PCON-PL-56PI-①-2-0   | Pulse train input type with differential line driver support                   | (—)          |                  | Refer to<br>P628 | _ | → P623 |
| Pulse Train Input Type<br>(Open Collector)              | 8   | PCON-PO-56PI-①-2-0   | Pulse train input type with open collector support                             |              |                  |                  | _ |        |
| Serial Communication Type                               |     | PCON-SE-56PI-N-0-0   | Dedicated Serial Communication   | 64 points    |                  |                  | _ |        |
| Program<br>Control Type                                 |     | PSEL-CS-1-56PI-①-2-0 | Programmed operation is possible.<br>Can operate up to 2 axes                  | 1,500 points |                  | Refer to<br>P671 | _ | → P665 |

RCP2W series actuators can be operated with the controllers indicated below. Select the type according to your intended application.

## IAI