**Actuator Specifications**

### Lead and Load Capacity

(1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the critical rotational speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.

(2) Since the RCP2 series use a pulse motor, the load capacity decreases at high speeds. Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.

(3) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the critical rotational speed.

In addition, the horizontal load capacity is based on the use of an external guide. See the technical resources (page A-83) for more information.

### Stroke and Maximum Speed

The values enclosed in < > apply for vertical usage. 0.2G is the upper limit of the acceleration. Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.

### Cable List

The cable list provides options for standard, special, and robot cables. See page A-39 for cables for maintenance.

### Option List

The option list includes brake, foot bracket, and reversed-home options. See page A-29 and A-33 for more information.

---

**RCP2-RGD4C**

ROBO Cylinder

**Actuator Specifications**

- **Type**: Pulse Motor
- **Series**: Standard
- **Configuration**:
  - RCP2-RGD4C-I-42P
  - Stroke: 50 mm
  - Speed: 150 mm/s
  - Load Capacity: 150 kg

---

**Technical References**

P. A-5

---

**Legend**

1. Stroke
2. (Compatible controller)
3. Cable length
4. Options

---

**Speed vs. Load Capacity**

- **Horizontal**: Speed vs. Load Capacity graph shows the maximum speed and load capacity supported at different stroke levels.
- **Vertical**: Speed vs. Load Capacity graph shows the maximum speed and load capacity supported at different stroke levels.

---

**Cable List**

- **Standard**:
  - P (5m)
  - N (5m)
  - M (5m)

- **Special Lengths**:
  - X06 (8m) ~ X10 (10m)
  - X11 (11m) ~ X15 (15m)
  - X16 (16m) ~ X20 (20m)

- **Robot Cable**:
  - R01 (1m) ~ R03 (3m)
  - R04 (4m) ~ R05 (5m)
  - R06 (6m) ~ R10 (10m)
  - R11 (11m) ~ R15 (15m)
  - R16 (16m) ~ R20 (20m)

---

**Option List**

- **Brake**: A-23
- **Foot bracket**: A-29
- **Reversed-home**: A-33

---

**Actuator Specifications**

- **Type**: Pulse Motor
- **Series**: Standard
- **Configuration**:
  - RCP2-RGD4C-I-42P
  - Stroke: 50 mm
  - Speed: 150 mm/s
  - Load Capacity: 150 kg

---

**Technical References**

P. A-5

---

**Legend**

1. Stroke
2. (Compatible controller)
3. Cable length
4. Options

---

**Speed vs. Load Capacity**

- **Horizontal**: Speed vs. Load Capacity graph shows the maximum speed and load capacity supported at different stroke levels.
- **Vertical**: Speed vs. Load Capacity graph shows the maximum speed and load capacity supported at different stroke levels.

---

**Cable List**

- **Standard**:
  - P (5m)
  - N (5m)
  - M (5m)

- **Special Lengths**:
  - X06 (8m) ~ X10 (10m)
  - X11 (11m) ~ X15 (15m)
  - X16 (16m) ~ X20 (20m)

- **Robot Cable**:
  - R01 (1m) ~ R03 (3m)
  - R04 (4m) ~ R05 (5m)
  - R06 (6m) ~ R10 (10m)
  - R11 (11m) ~ R15 (15m)
  - R16 (16m) ~ R20 (20m)

---

**Option List**

- **Brake**: A-23
- **Foot bracket**: A-29
- **Reversed-home**: A-33

---

**Actuator Specifications**

- **Type**: Pulse Motor
- **Series**: Standard
- **Configuration**:
  - RCP2-RGD4C-I-42P
  - Stroke: 50 mm
  - Speed: 150 mm/s
  - Load Capacity: 150 kg
The RCP2 series actuators can operate with the controllers below. Select the controller according to your usage.

**For Special Orders**

### Dimensions

![T-slot image]


*2. When homing, the rod moves to the M.E.; therefore, please watch for any interference with the surrounding objects.

The values enclosed in ‘( )’ are reference dimensions.

*3. Please note that there is no T-slot on the bottom of the brake unit.

* Compared to the standard model, the brake-equipped model is longer by 58mm and heavier by 0.4kg.

### Dimensions/Weight by Stroke

<table>
<thead>
<tr>
<th>Stroke (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>2.2</td>
</tr>
<tr>
<td>100</td>
<td>2.5</td>
</tr>
<tr>
<td>150</td>
<td>2.8</td>
</tr>
<tr>
<td>200</td>
<td>3.1</td>
</tr>
<tr>
<td>250</td>
<td>3.4</td>
</tr>
<tr>
<td>300</td>
<td>3.7</td>
</tr>
</tbody>
</table>

### Compatible Controllers

**The RCP2 series actuators can operate with the controllers below. Select the controller according to your usage.**

<table>
<thead>
<tr>
<th>Name</th>
<th>External View</th>
<th>Model</th>
<th>Description</th>
<th>Max. Positioning Points</th>
<th>Input Voltage</th>
<th>Power Supply Capacity</th>
<th>Standard Price</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solenoid Valve Type</td>
<td></td>
<td>PMEC-C-42PI-NP-2-1</td>
<td>Easy-to-use controller, even for beginners</td>
<td>3 points</td>
<td>AC100V</td>
<td>See P481</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SESP-C-42PI-NP-2-0</td>
<td>Operate with same signal as solenoid valve, supports both single and double solenoid types. No homing necessary with simple absolute type.</td>
<td></td>
<td>AC200V</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Splash-Proof Solenoid Valve Type</td>
<td></td>
<td>PSEP-CW-42PI-NP-2-0</td>
<td>Support both single and double solenoid types. No homing necessary with simple absolute type.</td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Positioner Type</td>
<td></td>
<td>PCON-C-42PI-NP-2-0</td>
<td>Positioning is possible for up to 512 points</td>
<td>512 points</td>
<td>DC4V</td>
<td>24A max.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Safety-Compliant Positioner Type</td>
<td></td>
<td>PCON-CG-42PI-N-0-0</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pulse Train Input Type (Differential Line Driver)</td>
<td></td>
<td>PCON-PL-42PI-NP-2-0</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pulse Train Input Type (Open Collector)</td>
<td></td>
<td>PCON-PG-42PI-NP-2-0</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serial Communication Type</td>
<td></td>
<td>PCON-SE-42PI-N-0-0</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field Network Type</td>
<td></td>
<td>RFCON-42P</td>
<td>Dedicated to field network</td>
<td>708 points</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Program Control Type</td>
<td></td>
<td>PSEL-C-1-42PI-NP-2-0</td>
<td>Programmed operation is possible Operation is possible on up to 2 axes</td>
<td>1500 points</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

* This is for the single-axis PSEL.

*1 is a placeholder for the power supply voltage (1: 100V, or 2: 100 – 240V).