RCP6(S)-RRA4R

**Model Specification Items**

- **Series**
  - RCP6: Separate Controller
  - RCP6S: Built-in Controller

- **Type**
  - WA: Battery-less
  - WA: Absolute
  - WA: Stepless

- **Encoder Type**
  - 16mm: 16mm
  - 5mm: 5mm
  - 2.5mm: 2.5mm

- **Motor Type**
  - 2.5mm: 2.5mm
  - 5mm: 5mm
  - 10mm: 10mm

- **Lead**
  - 16: 16mm
  - 10: 10mm
  - 5: 5mm

- **Stroke**
  - 60: 60mm
  - 410: 410mm

- **Applicable Controller/10 Type**
  - [PCP6] P: None
  - [PCON] S: 1
  - [MCON] M: 3
  - [MSL] I: 5
  - [ROBO] J: 10
  - [RSEL] SE: SO

- **Cable Length**
  - 60: 60mm
  - 410: 410mm

- **Options**
  - NFA: Tip adapter (Flange)
  - FL: Tip adapter (Internal thread)
  - QR: Clevis bracket

- **Raod and Payload**
  - Correlation Diagrams of Speed and Payload

- **Stroke and Max. Speed**
  - (Unit: mm/s)

- **Cable Length**
  - Standard: P 1mm
  - S 3mm
  - M 5mm
  - NFA 7mm
  - FLA 9mm
  - FLB 11mm

- **Robot Cable**
  - R01: 1m
  - R03: 3m
  - R06: 6m

- **Drive System**
  - Ball screw 8mm, rolled C10

- **Positioning repeatability**
  - ±0.01mm

- **Lost motion**
  - 0.1mm or less

- **Rod**
  - 62mm Aluminum

- **Rod non-rotation precision**
  - 0 deg

- **Allowable load and torque on rod tip**
  - See P. 127

- **Rod tip overhang distance**
  - 100mm

- **Ambient operating temp. & humidity**
  - 0~40°C, 85% RH or less (Non-condensing)

- **Body width**
  - 40mm

- **Motor Unit Type**
  - Stepper Motor

- **Side-mounted Motor**
  - Radial Load OK

- **Cable exit direction**
  - Outside

- **Notes**
  - * The clevis (QR) and knuckle joint (NJ) are sold as a set.
  - The assembly is to be performed by the customer.
  - * When selecting multiple options, please list them in alphabetical order. (e.g. B-CJB-NM)
**Dimensions and Mass by Stroke**

<table>
<thead>
<tr>
<th>Stroke</th>
<th>Mass (kg)</th>
<th>Rod deflection (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50mm stroke</td>
<td>1.4</td>
<td>0.5</td>
</tr>
<tr>
<td>100mm stroke</td>
<td>1.6</td>
<td>1.7</td>
</tr>
<tr>
<td>150mm stroke</td>
<td>1.8</td>
<td>1.9</td>
</tr>
<tr>
<td>200mm stroke</td>
<td>2.0</td>
<td>2.1</td>
</tr>
<tr>
<td>250mm stroke</td>
<td>2.2</td>
<td>2.3</td>
</tr>
<tr>
<td>300mm stroke</td>
<td>2.3</td>
<td>2.4</td>
</tr>
</tbody>
</table>

*The two mounting holes (H) on the rod side of the top surface of the base cannot be used. The number of the holes (H) in the table does not include these holes that cannot be used.*

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**Single-phase**

This model is 40°.

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**MCON-C/CG**

This model is network-compatible only.

**CompoNet**

Note: The type of compatible networks will vary depending on the controller. Please refer to reference page for more information.

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**Applicable Controllers**

The RCP6 series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use. *Please refer to P.147 for more information about the built-in controller of RCP6 series.*

<table>
<thead>
<tr>
<th>Name</th>
<th>External view</th>
<th>Input power</th>
<th>Positioner</th>
<th>Pulse train</th>
<th>Program</th>
<th>Network</th>
<th>Minimum number of positioning points</th>
<th>Reference page</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCON-CB/CG8</td>
<td>1</td>
<td>DC24V</td>
<td>*Option</td>
<td>-</td>
<td>-</td>
<td>DeviceNet</td>
<td>512 (768 for network spec.)</td>
<td>Please see P.131</td>
</tr>
<tr>
<td>MCON-C/CG</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CompoNet</td>
<td>256</td>
<td>Please see the MCON catalog.</td>
</tr>
<tr>
<td>MSEL-PC/PG</td>
<td>4</td>
<td>Single-phase 100~230VAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30,000</td>
<td>Please see the MSEL-PC/PG catalog.</td>
</tr>
</tbody>
</table>

*Please select “high-output specification” as an option for the MCON. With the MCON, operation is possible only when the high-output specification is selected.*