Gripping Force Adjustment

The gripping (pushing) force can be adjusted freely within the range of current limits of 20% to 70%.

* The gripping forces in the following diagrams indicate the sum of the gripping forces of both fingers.

00 10 20 30 40 50 60 70

Gripping force (N)

Current Limit (% ratio)

Actuator Specifications

Model | Deceleration Ratio | Max. Gripping Force (N) | Stroke (deg) | Stroke (deg) | Stroke (deg) | Stroke (deg)
---|---|---|---|---|---|---
RCP2CR-GRLS-I-20P-30-180 | 30 | 6.4 | 180 (90 per side) | 30 | 600

Legend: 1 Compatible controllers 2 Cable length 3 Options

Stroke List

Stroke (deg) | Standard Price
---|---
180 | —

Option List

Name | Option Code | See Page | Standard Price
---|---|---|---
Reversed-home | NM | — | A-33
Flange bracket | FB | — | A-26
Shaft bracket | SB | — | A-36

Actuator Specifications

Model | Option Code | See Page | Standard Price
---|---|---|---
RCP2CR-GRLS | — | — | —

Stroke and Maxi. Opening/Closing Speed

<table>
<thead>
<tr>
<th>Model</th>
<th>Stroke (deg)</th>
<th>Stroke (deg)</th>
<th>Stroke (deg)</th>
<th>Stroke (deg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCP2CR-GRLS-I-20P-30-180</td>
<td>30</td>
<td>600</td>
<td>180 (90 per side)</td>
<td>—</td>
</tr>
</tbody>
</table>

Legend: Stroke 1 Compatible controllers 2 Cable length 3 Options

Cable List

Type | Cable Symbol | Standard Price
---|---|---
Standard Type (Robot Cables) | P (1m) | —
| S (3m) | —
| M (5m) | —
| X06 (8m) | X10 (10m) | —
| X11 (11m) | X15 (15m) | —
| X16 (16m) | X20 (20m) | —

Legend: Stroke 1 Standard Type 2 Special Lengths 3 Options

* The standard cable is the motor-encoder integrated robot cable.

* See page A-39 for cables for maintenance.

RCP2CR-GRLS Cleanroom ROBO Cylinder 2-Finger Gripper Mini Lever Type 42mm Width

Pulse motor

* Please note that, when gripping (pushing), the speed is fixed at 5 degrees/s.

* The gripping forces in the following diagrams indicate the sum of the gripping forces of both fingers.

* The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this value.

* The maximum gripping force is the sum of the gripping forces of both fingers, at a gripping point distance of 0mm and no overhang distance. The workpiece weight that can be actually moved depends on the friction coefficient between the gripper fingers and the workpiece, as well as on the shape of the workpiece. As a rough guide, a workpiece's weight should not exceed 1/10 to 1/20 of the gripping force.

Please see page A-77 for details.

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Please see page A-77 for details.
For Special Orders  P. A-9

Dimensions

* The opening side of the slider is the home position.
*1 The motor-encoder cable is connected here. See page A-39 for details on cables.

### Compatible Controllers

The RCP2CR 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-20PI-MP-2-1</td>
<td>Easy-to-use controller, even for beginners</td>
<td>3 points</td>
<td>AC100V</td>
<td>See P461</td>
<td>—</td>
<td>— P477</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PSEP-C-20PI-MP-2-0</td>
<td>Operable 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>— P487</td>
</tr>
<tr>
<td>Splash-Proof</td>
<td></td>
<td>PSEP-CW-20PI-MP-2-0</td>
<td>—</td>
<td></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Solenoid Valve Type</td>
<td></td>
<td>PCON-C-20PI-NP-2-0</td>
<td>Positioning is possible for up to 512 points</td>
<td>512 points</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PCON-PL-20PI-NP-2-0</td>
<td>—</td>
<td></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PCON-PO-20PI-NP-2-0</td>
<td>—</td>
<td></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PCON-SE-20PI-N-0-0</td>
<td>Dedicated to serial communication</td>
<td>64 points</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RPCON-20P</td>
<td>Dedicated to field network</td>
<td>768 points</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PSEL-C-1-20PI-MP-2-0</td>
<td>Programmed operation is possible Operation is possible on up to 2 axes</td>
<td>1300 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, 2: 100–240V).