



Technical P. A-5 References

Mini
Standard
ontrollers
integrated

Rod
Type

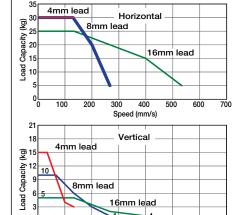
Mini
Standard

Controllers
integrated

- 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.
- Since the RCP2 series use the pulse motor, the load capacity decreases at high speeds. In the Speed vs. Load Capacity graph on the right, see if your desired speed and load capacity are supported.
- (3) The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 4mm-lead model, or when used vertically). This is the upper limit of the acceleration.
- The cleanliness class 10 is for horizontal usage. Please note that the actuator may not support C10 when used on its side or in vertical orientation.

■ Speed vs. Load Capacity

Due to the characteristics of the Pulse motor, the RCP2 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.



Actuator Specifications

■ Lead and Load Capacity	(Note 1) Please note that the maximum load capacity decreases as the speed increases						
Model	Lead	Max. Load Ca	Stroke				
Wiodei	(mm)	Horizontal (kg)	Vertical (kg)	(mm)			
RCP2CR-SA7C-I-56P-16-①-②-③-④	16	~ 25	~ 5	E0 - 900			
RCP2CR-SA7C-I-56P-8-①-②-③-④	8	~ 30	~ 10	50~800 (50mm increments)			
RCP2CR-SA7C-I-56P-4-①-②-③-④	4	~ 30	∼ 1 5	increments)			
Legend: ① Stroke ② Compatible controller ③ Cable length	Options						

■ Stroke, Max. Speed, and Suction Volume 50 ~ 700 Suction \sim 800 $_{
m (mm)}$ Volume (NI 533 480 16 70 <400> <400> 266 240 8 40 133 120

400

Speed (mm/s)

600

500

① Stroke List

Stroke (mm)	Standard Price
50/100	-
150/200	-
250/300	-
350/400	-
450/500	-
550/600	-
650/700	-
750/800	-

③ Cable List

Туре	Cable Symbol	Standard Price
	P (1m)	-
Standard Type	S (3m)	-
	M (5m)	-
Special Lengths	X06 (6m) ~ X10 (10m)	-
	X11 (11m) ~ X15 (15m)	-
	X16 (16m) ~ X20 (20m)	-
	R01 (1m) ~ R03 (3m)	-
	R04 (4m) ~ R05 (5m)	-
Robot Cable	R06 (6m) ~ R10 (10m)	-
	R11 (11m) ~ R15 (15m)	-
	R16 (16m) ~ R20 (20m)	_

The values enclosed in "< >" apply to vertical usage

* See page A-39 for cables for maintenance.

Option List

Name	Option Code	See Page	Standard Price
Brake (Cable exiting from end)	BE	→ A-25	-
Brake (Cable exiting from left)	BL	→ A-25	-
Brake (Cable exiting from right)	BR	→ A-25	-
Reversed-home	NM	→ A-33	-
Intake nort on opposite side	VR	→ A-38	_

Name	Option Code	See Page	Standard Price
Brake (Cable exiting from end)	BE	→ A-25	-
Brake (Cable exiting from left)	BL	→ A-25	-
Brake (Cable exiting from right)	BR	→ A-25	-
Reversed-home	NM	→ A-33	-
Intake port on opposite side	VR	→ Δ-38	_

Actuator Specifications

Item	Description
Drive System	Ball screw ø12mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Allowable Static Moment	Ma: 50.4N·m Mb: 71.9N·m Mc: 138.0N·m
Allowable Dynamic Moment (*)	Ma: 13.9N·m Mb: 19.9N·m Mc: 38.3N·m
Overhang Load Length	Ma direction: 230mm or less Mb, Mc direction: 230mm or less
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)

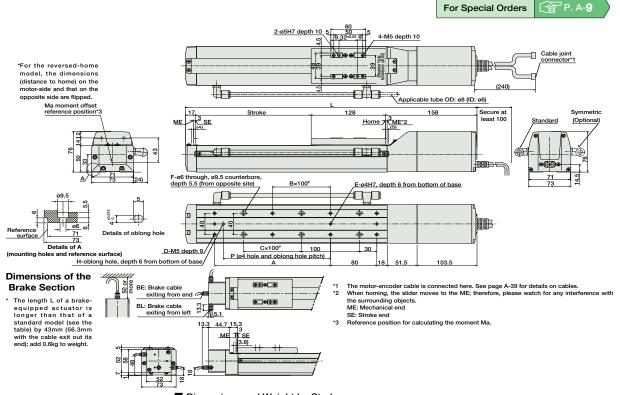
(*) Based on a 5,000km service life.











Dimens	ions	and	weign	t by	Stroke	

- Dilliciis	10113	aria v	rcigin	. Dy O	LIONC											
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	353	403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103
Α	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800
В	0	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7
С	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
D	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
Н	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
P	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
Weight (kg)	3.3	3.5	3.8	4.0	4.2	4.4	4.7	4.9	5.1	5.3	5.6	5.8	6.0	6.2	6.5	6.7

② Compatible Controllers The RCP2CR series actuators can operate with the controllers below. Select the controller according to your usage AC100V PMEC-C-56PI-NP-2-1 Easy-to-use controller, even for beginners See P481 → P477 AC200V ī 3 points Operable with same signal as solenoid valve Supports both single and double solenoid types. No homing necessary with simple absolute type. → P487 Splash-Proof Solenoid Valve Type PSEP-CW-56PI-NP-2-0 PCON-C-56PI-NP-2-0 Positioning is possible for up to 512 points 512 points Safety-Compliant PCON-CG-56PI-NP-2-0 Pulse Train Input Type Pulse train input type with PCON-PL-56PI-NP-2-0 DC24V 2A max. → P525 (Differential Line Driver) differential line driver support (-) Pulse Train Input Type Pulse train input type with PCON-PO-56PI-NP-2-0 (Open Collector) open collector support Serial Communication Type PCON-SE-56PI-N-0-0 Dedicated to serial communication 64 points

IAI

768 points

1500 points

Dedicated to field network

Programmed operation is possible Operation is possible on up to 2 axes

RCP2CR-SA7C 404

→ P503

→ P557

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RPCON-56P

PSEL-C-1-56PI-NP-2-0

Field Network Type

Program Control

PMEC /AMEC PSEP /ASEP /ASEP /ASEP /ASEP /ASEP /ASEP /ASEP /ASED /A

^{*} This is for the single-axis PSEL.
* ① is a placeholder for the power supply voltage (1:100V, 2:100~240V).