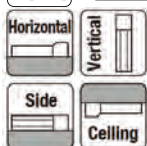


RCP5CR-SA6C

Cleanroom Type, ROBO Cylinder, Slider Type, Motor Unit Coupled, Actuator Width 58mm, 24V Pulse Motor

Model	RCP5CR	SA6C	WA	42P					
Specification	Series	Type	Encoder type	Motor type	Lead	Stroke	Applicable controllers	Cable length	Options
Items			WA: Battery-less absolute specification	42P: Pulse motor, size 42□	20: 20mm 12: 12mm 6: 6mm 3: 3mm	50: 50mm 800: 800mm (Every 50mm)	P3: PCON/MSEL P5: RCON/RSEL	N: No cable P: 1m S: 3m M: 5m	Please refer to the options table below. X□□: Specified length R□□: Robot cable

*Controller is not included.



* Depending on the model, there may be some limitations to using the vertical, side, and ceiling mount positions. Please refer to P.59 for details.

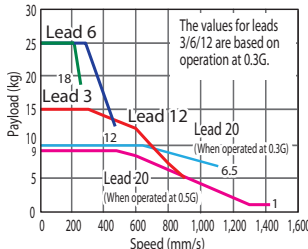


- (1) The actuator specification displays the payload's maximum value, but it will vary depending on the acceleration. Please refer to the "Selection Guidelines" (RCP5 Payload by Speed/Acceleration Table) on P. 61.
- (2) Please refer to P. 59 for push-motion operation.

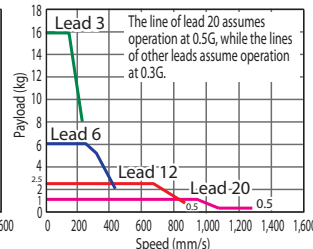
Correlation Diagrams of Speed and Payload

(1) High-output enabled with PCON-CA, MSEP, MSEL connected

RCP5CR-SA6C, Horizontal mount



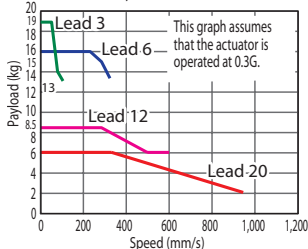
RCP5CR-SA6C, Vertical mount



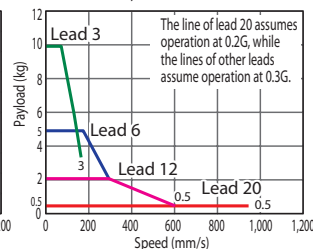
* PCON-CA is a previous model. Current model is PCON-CB.

(2) High-output disabled with PCON-CA, MSEP connected

RCP5CR-SA6C, Horizontal mount



RCP5CR-SA6C, Vertical mount



Actuator Specifications

Lead and Payload

Model number	Lead (mm)	Connected controller	Maximum payload	Stroke (mm)
			Horizontal (kg)	Vertical (kg)
RCP5CR-SA6C-WA-42P-20-①-P3-②-③	20	High-output enabled	10	1
		High-output disabled	6	0.5
RCP5CR-SA6C-WA-42P-12-①-P3-②-③	12	High-output enabled	15	2.5
		High-output disabled	8.5	2
RCP5CR-SA6C-WA-42P-6-①-P3-②-③	6	High-output enabled	25	6
		High-output disabled	16	5
RCP5CR-SA6C-WA-42P-3-①-P3-②-③	3	High-output enabled	25	16
		High-output disabled	19	10

Legend: ① Stroke ② Cable length ③ Options *Please refer to P. 59 for push-motion operation.

Stroke, Max. Speed and Suction Amount

(Unit: mm/s)

Lead (mm)	Connected controller	50~400 (Every 50mm)	450 (mm)	500 (mm)	550 (mm)	600 (mm)	650 (mm)	700 (mm)	750 (mm)	800 (mm)	Suction amount (Nl/min)
20	High-output enabled	1,440 <1,280>	1,335 <1,280>	1,130	970	840	735	650	575		100
	High-output disabled		960			840	735	650	575		
12	High-output enabled	900	885	735	620	535	460	405	355	315	70
	High-output disabled		600			535	460	405	355	315	
6	High-output enabled	450	435	365	305	265	230	200	175	155	30
	High-output disabled		300			265	230	200	175	155	
3	High-output enabled	225	215	180	150	130	115	100	85	75	15
	High-output disabled		150			130	115	100	85	75	

Values in brackets < > are for vertical use.

① Stroke

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

② Cable Length

Type	Cable code	Standard price
Standard type	P (1m) S (3m) M (5m)	-
Special length	X06 (6m) ~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)	-

*Please refer to P. 89 for maintenance cables.

③ Options

Name	Option code	Reference page	Standard price
Brake	B	→P. 11	-
Cable exit direction (Top)	CJT	→P. 11	-
Cable exit direction (Right)	CJR	→P. 11	-
Cable exit direction (Left)	CJL	→P. 11	-
Cable exit direction (Bottom)	CJB	→P. 11	-
Non-motor end specification	NM	→P. 11	-
Vacuum joint on opposite side	VR	→P. 11	-

* Please contact IAI for current available options.

Actuator Specifications

Item	Description
Drive system	Ball screw Ø10mm, rolled C10
Positioning repeatability (*1)	±0.02mm [±0.03mm]
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treatment
Dynamic allowable moment (*2)	Ma: 11.6N·m, Mb: 16.6N·m, Mc: 24.6N·m
Static allowable moment	Ma: 38.3N·m, Mb: 54.7N·m, Mc: 81N·m
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

*Reference for overhang load length/Ma: 150mm or less, Mb, Mc: 150mm or less

(*1) The values in brackets [] are for Lead 20.

(*2) Assumes a standard rated life of 5,000km.

(*) The operational life will vary depending on operation and installation conditions. Please refer to the general catalog for details on operational life, allowable moment direction, and overhang load length.

