

Product Data Sheets RCP5W-RA RoboCylinder Brochure Extract GB





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# Specification Table

Turne	Extornal view	Actuator	tuator Stroke Ball screw Max. speed Max. r		Max. pay	load (kg)	Page			
туре	External view	(mm)	(mm)	(mm)	(mm)	Horizontal	Vertical	ruge		
						12	560<500>*	20	3	
RA6C		65mm	50~400	6	360*	40	8	$\rightarrow$ P.5		
	-11			2	180*	50	16			
				J	70	-	30			
				16	560<400>*	40	7			
RA7C		<b>75</b> mm	50~500	8	340<280>*	50	15	→ P.7		
	-3]			Д	170<140>*	70	25			
					80	-	45			
		88mm	50~700	20	480<360>	24	4			
RA8C	A			10	240<200>*	48	32	$\rightarrow$ P.9		
				5	120<100>*	80	56			
			50~800	10	200<130>	64	64			
RA10C	0			5	100	120	80	→ P.11		
		108mm		2.5	50	240	120			

\*In case the ambient temperature is 5° or less, the max. speed decreases. Please refer to the page featuring each actuator type. The values in < > apply when the actuator is used vertically.



# Model Number

# RCP5W-RA6C

RoboCylinder 24-V Pulse motor Water-proof rod type

Actuator width: 65 mm

Model	RCP5W	/	RA6C	— WA -	- 🗆 -			P3		
Items	Series	—	Туре	Encoder type	— Motor type —	Lead	— Stroke ——	Applicable controller	— Cable length —	Options
				WA: Battery-less absolute specification	42P: Pulse motor, size 42 42SP: High-thrust pulse motor, size 42	12:12mm 6: 6mm 3: 3mm	50:50mm 2 400:400mm (every 50-mm)	P3: PCON-CA MSEP MSEL	N: None P: 1m S: 3m M: 5m X — : Specified length R — : Robot cable	Refer to the option list below. * If the high-thrust pulse motor is selected, the actuator comes standard with option B (Brake).

### **Radial Load Applicable**





Correlation Diagrams of Speed and Payload

Due to its pulse motor characteristics, the RCP5 series provides lower payload at higher speed. Check the tables below to see if the desired speed and payload can be achieved.



Notes on selection
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Actuator Spe Leads and P

Standard

specification

High-thrust

specification

(1) The maximum payload is the value when operated horizontally and vertically at 0.3G and 0.5G, respectively. Note that raising the acceleration causes the payload to drop. (2) The horizontal payload is calculated by assuming that an external guide is also used.

- (3) The high-thrust specification is desgned exclusively for vertical operation. It comes standard with a brake. (4) The cable joint connector is not splash-proof, so install the
- connector in a location where it will not come in contact with water

cincations											
yloads ■ Stroke and Maximum Speed (unit: mm/s											
Model number		Maximum Horizontal	payload Vertical	Maximum push	ximum Positioning Stroke		Lead (mm)	High- output setting	50 (mm)	100 ~ 400 (in 50-mm increments)	
	` ´	(kg)	(kg)	torce (IN)	(mm)	` ´		12	Enabled	500 [450<400>]	560<500>[450<400>]
	12	20	2	93				12	Disabled	500<400>	
CPSW-RAOC-WA-42P-12-0-PS-0-0	12	20	5	95			6		Enabled	360	[300]
	6	40	Q	185				0	Disabled	250<250>	
CF3W-RAOC-WA-42F-0-10-F5-10-10	0	40	0	105		50 to 400		2	Enabled	180 [150]	
	2	50 (*1)	16	370	±0.02	(in 50-mm		J	Disabled	125	<125>
CF 3W-1040C-WA-42F-3-10-FF 3-10-FE	5	50(1)	10	570		increments)		3	Enabled	<70> [<70>]	
								(High-thrust)	Disabled	<	60>
СР5W-RA6C-WA-42SP-3-①-РЗ-②-③-В	3	-	30	590			*	The valu	es in < > a es in [] ap	pply when the act ply when the actu	tuator is used vertically. ator is used at an

Legend ① Stroke ② Cable length ③ Options

R

R

R

R

(\*1) 40kg for disabled high-output setting.

Cable length		
Type	Cable symbol	
	P (1m)	
Standard type	S (3m)	
,,	M (5m)	
	X06 (6m) ~ X10 (10m)	
Special length	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)	
	$R16(16m) \sim R20(20m)$	

### Options

Name	Option code	See page	
Cable exit from the left side face	A1		
Cable exit from the right side face	A3	P4	
Cable exit from the top face	AT	(or refer to	
Brake	В	the RCP5	
With flange	FL	rod type	
With foot bracket	FT	manual)	
Non-motor side specification	NM		

\*The high-thrust specification comes standard with a brake.

#### 360 [300] 250<250> 180 [150] 125<125 <70> [<70>] <60> when the actuator is used vertically. when the actuator is used at ar rature of 5°C or below.

[manual						
Actuator Specifications						
Item	Description					
Drive system	Ball screw ø10mm, rolled C10					
Positioning repeatability	±0.02mm					
Lost motion	0.1mm or less					
Rod	ø22 stainless steel pipe					
Non-rotating accuracy of rod (*1)	±0 deg					
Allowable load/allowable torque at end of rod	Refer to page 15 (or to the RCP5 rod type manual)					
Lost offset distance at end of rod	100mm or less					
Protective structure	IP67					
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)					
(*1) Rod's angular displacement in rotational direction with no applied load is shown.						





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2/3D CAD

- \*1 Connect the motor and encoder cables.
- \*2 The rod moves to the ME during home return, so pay attention to possible contact with surrounding structures and objects.
- \*3 The orientation of the width across flats varies from one product to another.
- \*4 When installing the actuator using the front housing or flange, make sure the actuator does not receive any external force



The RCPSW series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use.								
Name	External view	Model number	Max. number of controlled axes	Maximum number of positioning points	Input power		Reference page	
Positioner type (High-output specification)	<u>ii</u>	PCON-CA-42@WAI-①-2-0		E12 points			Refer to	
Pulse train type (High-output specification)		PCON-CA-42@WAI-PL®-2-0	1	512 points	DC24V		the PCON	
Field network type (High-output specification)		PCON-CA-42@WAI-@-0-0		768 points			catalog.	
Solenoid valve multi-axis type (PIO specification)		MSEP	C: 8 (4 when high-output enabled)	3 points			Refer to	
Positioner multi-axis type (Field network specification)		MSEP	LC: 6 (3 when high-output enabled)	256 points			catalog.	
Program control multi-axis safety category type		MSEL-PG-1-42PWAI-①-2-4	4	30000 points	Single-phase		Refer to	
Program control multi-axis safety category type (w/ network board)	2	MSEL-PG-1-42PWAI0-4	7	50000 points	100V~230V		catalog.	

\*Above MSEL models are for single-axis specification. \*The high output enabled operation is only available when the "High-output setting specs" is selected in the MSEP-C/LC. \*① I/ Votpe (NP/PN) \*① Number of axes \*① Field network specification code \*⑦ C or LC \*⑦ N (NPN specification) or P (PNP specification) code \*⑦ P (standard specification) or SP (high-thrust specification) code

# RCP5W-RA7C

RoboCylinder 24-V Pulse motor Water-proof rod type

Correlation Diagrams of Speed and Payload

Actuator width: 75 mm



### **Radial Load Applicable**



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Notes

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The maximum payload is the value when operated horizon-tally and vertically at 0.3G and 0.5G, respectively. Note that raising the acceleration causes the payload to drop.
The horizontal payload is calculated by assuming that an

- external guide is also used. (3) The high-thrust specification is desgned exclusively for vertical operation. It comes standard with a brake.
- (4) The cable joint connector is not splash-proof, so install the connector in a location where it will not come in contact with water



## Actuator Specifications Leads and Pavloads

Model number			Maximum Horizontal (kg)	payload Vertical (kg)	Maximum push force (N)	Positioning repeatability (mm)	Stroke (mm)		
	RCP5W-RA7C-WA-56P-16-①-P3-②-③		40	7 (*1)	219				
Standard specification	RCP5W-RA7C-WA-56P-8-①-P3-②-③	8	50	15	437		50 to 500		
	RCP5W-RA7C-WA-56P-4-①-P3-②-③		70	25	875	±0.02	(in 50-mm increments)		
High-thrust specification	RCP5W-RA7C-WA-56SP-4-①-P4-②-③-B	4	-	45	1030				
Legend ① Stroke ② Cable length ③ Options (*1) 5kg for disabled high-output setting.									

Stroke and Maximum Speed (unit: mm/s)									
Lead (mm)	High- output setting	50 (mm)	100 ~ 500 (in 50-mm increments)						
16	Enabled	500 [450<300>]	560<400>[450<300>]						
	Disabled	420<350>							
	Enabled	340<280> [300<250>]							
l °	Disabled	210	<210>						
	Enabled	170<140>	[150<125>]						
4	Disabled	140	<110>						
4	Enabled	<80>	[<80>]						
(High-thrust)	Disabled	_							
*The values in < > apply when the actuator is used vertically.									

\*The values in [] apply when the actuator is used at an environmental temperature of 5°C or below.

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 1.51	19	 C ]	-

Type	Cable symbol	
	P (1m)	
Standard type	S (3m)	
	M (5m)	
	X06 (6m) ~ X10 (10m)	
Special length	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)	
	<b>B16</b> (16m) ~ <b>B20</b> (20m)	

#### Ontions

Name	Option code	See page	
Cable exit from the left side face	A1		
Cable exit from the right side face	A3	P4	
Cable exit from the top face	AT	(or refer to	
Brake	В	the RCP5	
With flange	FL	rod type	
With foot bracket	FT	manual)	
Non-motor side specification	NM	]	

\*The high-thrust specification comes standard with a brake.

Actuator specifications	Actuator specifications									
Item	Description									
Drive system	Ball screw ø12mm, rolled C10									
Positioning repeatability	±0.02mm									
Lost motion	0.1mm or less									
Rod	ø25 stainless steel pipe									
Non-rotating accuracy of rod (*1)	±0 deg									
Allowable load/allowable torque at end of rod	Refer to page 15 (or to the RCP5 rod type manual)									
Lost offset distance at end of rod	100mm or less									
Protective structure	IP67									
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)									
(*1) Pod's angular displacement in rotational direction	with no applied load is shown									





■ Rod Deflection of RCP5W-RA7C (Reference Values) (The graph below plots deflection as measured by installing the actuator vertically and applying a force to the rod from one side.)

![](_page_5_Figure_2.jpeg)

### Dimensions and Mass by Stroke

		·									
	Stroke	50	100	150	200	250	300	350	400	450	500
	Without brake	361	411	461	511	561	611	661	711	761	801
L	With brake (*)	416	466	516	566	616	666	716	766	816	866
٨	Without brake	40	40	40	40	40	40	40	40	40	40
A	With brake (*)	95	95	95	95	95	95	95	95	95	95
	В	1	1	2	2	3	3	4	4	5	5
	С	85	135	85	135	85	135	85	135	85	135
	D	6	6	8	8	10	10	12	12	14	14
	Without brake	270	320	370	420	470	520	570	620	670	720
IVI	With brake (*)	325	375	425	475	525	575	625	675	725	775
Allowab	le static load at end of rod (N)	112.7	91.5	76.7	65.7	57.2	50.4	44.8	40.2	36.2	32.7
Allowable	dynamic Load offset 0 mm	49.0	37.4	29.9	24.5	20.4	17.1	14.5	12.3	10.3	8.6
load at end	of rod (N) Load offset 100 mm	38.7	31.0	25.5	21.4	18.1	15.4	13.2	11.2	9.5	8.0
Allowable	e static torque at end of rod (N•m)	11.4	9.3	7.9	6.8	6.0	5.4	4.9	4.5	4.1	3.8
Allowable dynamic torque at end of rod (N•m)		3.9	3.1	2.5	2.1	1.8	1.5	1.3	1.1	1.0	0.8
Mass	Without brake	5.7	6.2	6.7	7.3	7.8	8.3	8.8	9.3	9.8	10.3
(kg)	With brake	6.5	7.0	7.5	8.0	8.5	9.1	9.6	10.1	10.6	11.1
*) The di	mensions of the high-thrus	t specific	ation in	clude the	e brake.						

Applicable Controllers									
The RCP5W series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use.									
Name	External view	Model number	Max. number of controlled axes	Maximum number of positioning points	Input power		Reference page		
Positioner type (High-output specification)	<b>N</b>	PCON-CA-56PWAI-①-2-0		512 points			Refer to		
Pulse train type (High-output specification)		PCON-CA-56PWAI-PL <sup>®</sup> -2-0	1	-			the PCON		
Field network type (High-output specification)		PCON-CA-56PWAI0-0		768 points	DC24V		catalog.		
Solenoid valve multi-axis type (PIO specification)		MSEP	C: 8 (4 when high-output enabled)	3 points			Refer to		
Positioner multi-axis type (Field network specification)		MSEP	LC: 6 (3 when high-output enabled)	256 points			catalog.		
Program control multi-axis safety category type		MSEL-PG-1-56PWAI-①-2-4	4	20000 points	Single-phase		Refer to		
Program control multi-axis safety category type (w/ network board)	w/ network board) MSEL-PG-1-		4	S0000 points	100V~230V		catalog.		
Positioner high-thrust type (High-output specification)	1	PCON-CFA-56SPWAI-①-2-0		512 points			Refer to		
Pulse train high-thrust type (High-output specification)		PCON-CFA-56SPWAI-PL 12-0	1	-	DC24V		the PCON		
Field network high-thrust type (High-output specification)		PCON-CFA-56SPWAI0-0		768 points			catalog.		

\*PCON-CFA controller for high-thrust type actuator RCP5W-RA7C-WA-565P. \*Above MSEL models are for single-axis specification. \*The high output enabled operation is only available when the "High-output setting specs" is selected in the MSEP-C/LC. \*① I/O type (NP/PN) \*① Number of axes \*⑩ Field network specification code \*⑦ C or LC \*⑦ N (NPN specification) or P (PNP specification) code \*⑦ P (standard specification) or SP (high-thrust specification) code

![](_page_6_Figure_0.jpeg)

![](_page_6_Picture_1.jpeg)

(1) The maximum payload is the value when operated horizontally and vertically at 0.1G for lead 5 and 0.2G for lead 10 and lead 20. Note that raising the acceleration causes the payload to drop. (2) Please note that the RA8C requires a dedicated controller (PCON-CFA). (3) The horizontal payload is calculated by assuming that an external guide is also used.

(4) The cable joint connector is not splash-proof, so install the connector in a location where it will not come in contact with water.

Actuator Specifications																
I Leads and Payloads ■ Stroke and Maximum Speed (unit: mm/s)																
Model number	Lead (mm)	Maximum Horizontal (kg)	n payload Vertical (kg)	Max. push force (N)	Stroke (mm)	(	_ead mm)	50 (mm)	100 (mm)	150 ~ 400 (mm)	450 (mm)	500 (mm)	550 (mm)	600 (mm)	650 (mm)	700 (mm)
RCP5W-RA8C-WA-60P-20-①-P4-②-③	20	24	4	500			20	280	405 <360>	480 <360>	440 <360>	360	320	280	240	220
RCP5W-RA8C-WA-60P-10-10-10-10-10-10-10-10-10-10-10-10-10-	10	48	32	1000	50 to 700 (in 50-mm increments)		10		240 <2002 [210	> <175>]	220 <200>	180 [<175>]	160	140	120	110
RCP5W-RA8C-WA-60P-5-①-P4-②-③	5	80	56	2000			5		120 <1002	> D<75>]	110 <100>	90 [<75>]	80 [<75>]	70	60	55

60

50

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20

10

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Payle

ead 5

Lead,10

100

50

150 200 250 Speed (mm/s)

Legend ① Stroke ② Cable length ③ Options

Cable length	
-	
Iype	Cable symbol
	P (1m)
Standard type	S (3m)
	M (5m)
	X06 (6m) ~ X10 (10m)
Special length	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)

Name	Option code	See page	
Brake	В	P4	
With flange	FL	(or refer to the RCP5	
Non-motor side specification	NM	rod type manual)	

\*The values in < > apply when the actuator is used vertically. \*The values in [] apply when the actuator is used at an environmental temperature of 5°C or below.

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50

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20

10

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Lead 5

12

100

50

Lead 10

150 200 250 Speed (mm/s)

The values below for

lead 5 are based on

operation at 0.1G, for

the other leads at 0.2G.

Lead 20

Vertical

300 350

1.5

400

The values below for

lead 5 are based on

operation at 0.1G, for

the other leads at 0.2G

Lead 20

Vertical

300 350 400

1.5

		Ac	tua	tor	Sp	ecit	fica	tion	
--	--	----	-----	-----	----	------	------	------	--

•							
Item	Description						
Drive system	Ball screw ø16mm, rolled C10						
Positioning repeatability	±0.02mm						
Lost motion	0.1mm or less						
Rod	ø40 aluminum drawn tube						
Non-rotating accuracy of rod (*1)	±0 deg						
Allowable load/allowable torque at end of rod	Refer to page 16 (or to the RCP5 rod type manual)						
Lost offset distance at end of rod	100mm or less						
Protective structure	IP65						
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)						
*1) Rod's angular displacement in rotational direction with no applied load is shown.							

![](_page_6_Figure_12.jpeg)

![](_page_7_Figure_0.jpeg)

Name	External view	Model number	Maximum number of positioning points	Input power		Reference page
Positioner type	PCON-CFA-60PWAI-NP-2-0 PCON-CFA-60PWAI-PN-2-0 512 points		512 points			
Pulse-train type		PCON-CFA-60PWAI-PLN-2-0 PCON-CFA-60PWAI-PLP-2-0	—	DC24V		Refer to the PCON catalog.
Field network type		PCON-CFA-60PWAI-①-0-0	768 points			,

\* Field network specification code (DV, CC, PR, CN, PRT, EC, EP)

![](_page_8_Figure_0.jpeg)

Actuator Specifications																		
■ Leads and Payloads ■ Stroke and Maximum Speed (unit: mm/s)																		
Model number	Lead (mm)	Maximum Horizontal (kg)	n payload Vertical (kg)	Max. push force (N)	Stroke (mm)		Lead (mm)	50 (mm)	100 (mm)	150 ~ 400 (mm)	450 (mm)	500 (mm)	550 (mm)	600 (mm)	650 (mm)	700 (mm)	750 (mm)	800 (mm)
RCP5W-RA10C-WA-86P-10-①-P4-②-③	10	64	64	1500			10	117	167		20	00 <13	10>		180	160	140	120
RCP5W-RA10C-WA-86P-5-①-P4-②-③	5	120	80	3000	50 to 800 (in 50-mm increments)		5	83	100		90	80	70	60	55	50	45	
RCP5W-RA10C-WA-86P-2.5-①-P4-②-③	2.5	240	120	6000			2.5			5	50				45	40	35	30

Legend ① Stroke ② Cable length ③ Options

Cable length		
Туре	Cable symbol	
	P (1m)	
Standard type	S (3m)	
	$\frac{100}{100}$ X06 (6m) ~ X10 (10m)	
Special length	X11 (11m) ~ X15 (15m)	
	X16 (16m) ~ X20 (20m)	
	R01 (1m) ~ R03 (3m)	
	<b>R04</b> (4m) ~ <b>R05</b> (5m)	
Robot cable	R06 (6m) ~ R10 (10m)	
	R11 (11m) ~ R15 (15m)	
	R16 (16m) ~ R20 (20m)	

Name	Option code	See page	
Brake	В	P4	
With flange	FL	(or refer to the RCP5	
Non-motor side specification	NM	rod type manual)	

\*The values in < > apply when the actuator is used vertically.

### Actuator Specifications

Item	Description				
Drive system	Ball screw Ø20mm (Lead 2.5/10mm), Ø16mm (Lead 5mm), rolled C10				
Positioning repeatability	±0.02mm				
Lost motion	0.1mm or less				
Rod	ø40 aluminum drawn tube				
Non-rotating accuracy of rod (*1)	±0 deg				
Allowable load/allowable torque at end of rod	Refer to page 16 (or to the RCP5 rod type manual)				
Lost offset distance at end of rod	100mm or less				
Protective structure	IP65				
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)				
(*1) Rod's angular displacement in rotational direction	with no applied load is shown.				

![](_page_8_Figure_9.jpeg)

![](_page_9_Figure_0.jpeg)

![](_page_9_Figure_1.jpeg)

	Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	Without brake	486.8	536.8	586.8	636.8	686.8	736.8	786.8	836.8	886.8	936.8	986.8	1036.8	1086.8	1136.8	1186.8	1236.8
	With brake	546.8	596.8	646.8	696.8	746.8	796.8	846.8	896.8	946.8	996.8	1046.8	1096.8	1146.8	1096.8	1246.8	1296.8
A		0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
	В	132	82	132	82	132	82	132	82	132	82	132	82	132	82	132	82
	С	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
	D	132	182	232	282	332	382	432	482	532	582	632	682	732	782	832	882
Allowable static load on rod tip (N)		316.9	268.4	232.6	205.1	183.4	165.7	151.0	138.6	128.1	119.0	111.0	103.9	97.7	92.1	87.0	82.5
Allowable	Load offset 0mm	119.1	99.1	84.7	73.8	65.3	58.5	52.8	48.1	44.0	40.5	37.5	34.8	32.4	30.2	28.3	26.5
on rod tip (N)	Load offset 100mm	100.7	85.9	74.9	66.3	59.3	53.6	48.8	44.7	41.2	38.1	35.4	32.9	30.8	28.8	27.0	25.4
Allowable stati	Allowable static torque on rod tip (N•m)		27.0	23.4	20.7	18.5	16.8	15.3	14.1	13.1	12.2	11.4	10.7	10.1	9.6	9.1	8.6
Allowable dynai	dynamic torque on rod tip (N+m) 10.1 8.6 7.5 6.6 5.9 5.4 4.9 4.5 4.1 3.8 3.5 3.5		3.3	3.1	2.9	2.7	2.5										
Mass (kg)	Without brake	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23
	With brake	14.1	14.8	15.5	16.2	16.9	17.6	18.3	19	19.7	20.4	21.1	21.8	22.5	23.2	23.9	24.6

Correlation Diagrams of Vertical Load and Traveling Life

Since the RCP5W-RA10C has a greater maximum thrust than other types, its service life varies significantly depending on the payload and push force applied when the actuator is installed vertically. When selecting an appropriate type from the correlation diagram of speed and payload or correlation diagram of push force and current-limiting value, check its traveling life on the correlation diagram of payload and service life as well as on the correlation diagram of push force and service life.
Lead 2.5
Lead 5
Lead 10

![](_page_9_Figure_5.jpeg)

Applicable Controllers The RCP5W series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use.										
Name	External view	Model number	Maximum number of positioning points	Input power		Reference page				
Positioner type		PCON-CFA-86PWAI-NP-2-0 PCON-CFA-86PWAI-PN-2-0	512 points							
Pulse-train type		PCON-CFA-86PWAI-PLN-2-0 PCON-CFA-86PWAI-PLP-2-0	—	DC24V		Refer to the PCON catalog.				
Field network type		PCON-CFA-86PWAI-①-0-0 768 points				]				

\*() Field network specification code (DV, CC, PR, CN, PRT, EC, EP)