тел.: (495) 662-87-56

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Dust-proof/Splash-proof ROBO CYLINDER® RCP4W series RCP4W



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A First for Slider-type ROBO Cylinders!

Dust-proof/Splash-proof Performance of IP65, Plus At-will Installation Configuration Flexibility

Features



IP Classes

	P class	Description	Applicable IAI products
IP67	Solid objects	Fully protected against the entry of powder dust into the equipment.	
IFO7	Water	Even when the equipment is submerged in water, water does not enter the equipment.	Slider type RCP2W-SA16C
IP65	Solid objects	Fully protected against the entry of powder dust into the equipment.	Slider type RCP4W Slider type ISWA/ISPWA
	Water	The equipment receives no harmful effect even when directly hit by water jets from any direction.	Pulse motor rod type RCP2W-RA4C/RA6C
	Solid objects	Dust that would affect the operation of the equipment does not enter the equipment.	
IP54	Water	The equipment receives no harmful effect even when contacted by water splashes from any direction.	High-thrust rod type RCP2W-RA10C
IP50	Solid objects	Dust that would affect the operation of the equipment does not enter the equipment.	IS A
	Water	The equipment is not protected against water.	Small gripper (dust-proof type) RCP2W-GR

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Compact

IAI's splash-proof single-axis robots (ISWA series) have been made smaller to approx. 60% in cross-section area ratio while keeping the excellent splash-proof performance of ISWA robots. (60% is based on comparison of ISWA-S and RCP4W-SA5C)

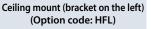
		ISWA			RCP4W		
	Type L	Type M	Type S	SA7C	SA6C	SA5C	
	(Actuator width)	(Actuator width)	(Actuator width)	(Actuator width)	(Actuator width)	(Actuator width)	
Stroke (mm)	100 to 1200 (Available in 50 increments)	100 to 1000 (Available in 50 increments)	100 to 600 (Available in 50 increments)	100 to 700 (Available in 50 increments)	100 to 600 (Available in 50 increments)	100 to 500 (Available in 50 increments)	
Maximum speed (mm/s)	peed 1000 1000		800	530	400	330	



Mount on the Wall or Hang from the Ceiling

Wall-mounting brackets and ceiling-mounting brackets are available as options, which significantly increase the freedom of installation.



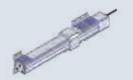




(Option code: HFR)

Wall mount sideways on the left

(Option code: TFL)



Wall mount sideways on the right

(Option code: TFR)

Left side of the table

4

Installable on All Four Sides of the Top, Bottom, Left and Right of the Table

The table, positioned in a manner wrapping around the actuator, has tapped holes on all four sides of the top, bottom, left and right to increase the freedom of actuator installation.

5

Choice of Grease

You can select either industrial grease (Daphne Eponex No. 2) (standard) or food grade grease (Medallion FM No. 1) for the guides and ball screw in the actuator.



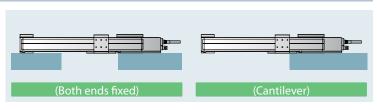
Bottom side of the table



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Specification List

Take note that, with the RCP4W series, the horizontal payload, the dynamic allowable moments, the overhang load length and the maximum stroke vary depending on whether the actuator is operated with its brackets on both ends fixed (both ends fixed) or with only the motor-side mounting bracket fixed in a cantilever configuration (cantilever).



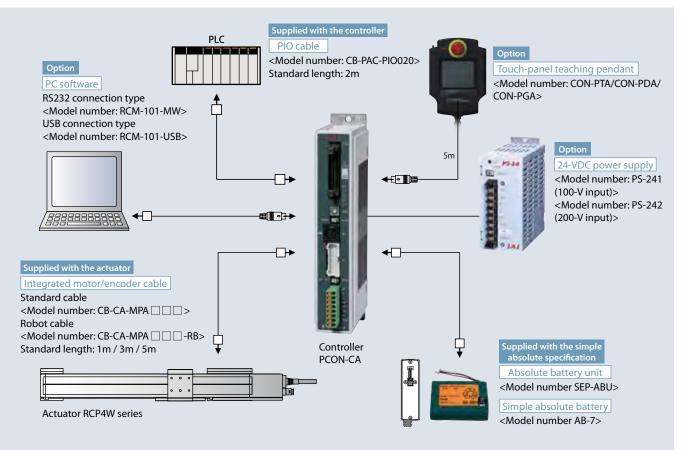
Base Specifications (Both Ends Fixed)

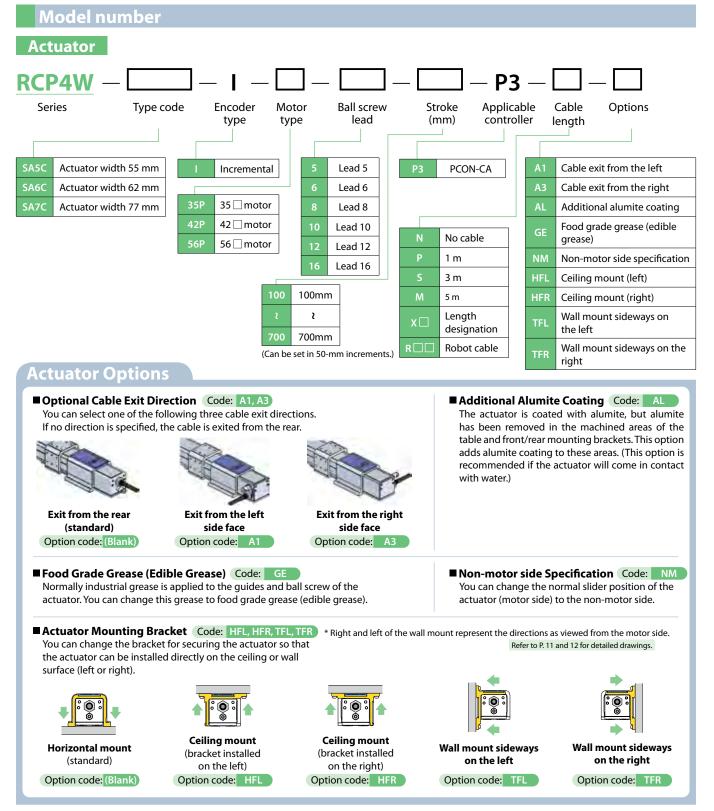
Series	Tuno	Actuator width	Motor	Ball screw	Maxi- mum	Accele (C		Horizontal p	oayload (kg)	Positioning repeatability		nic allo nent (N		Overhang load	Stroke (mm)	Page	
Series	Туре	(mm)	type	lead (mm)	speed (mm/s)	Rated	Maxi- mum	Rated acceleration	Maximum acceleration	(mm)	Ma	Mb	Mc	length (mm)	Stroke (mm)	гауе	
	SA5C	55	55	35	10	330			5	2		3.4	4.9	8	125	100 to 500 (Available in	P5
			33	5	165			10	4		5.4	4.9	0	125	50-mm increments)	P5	
RCP4W	SA6C	62	42	12	400	400 0.3	0.6	7.5	3	±0.02	47	6.7	11	150	100 to 600 (Available in	P7	
RCP4W	SAOC	02	42	6	200	0.5		15	6		4.7		11	150	50-mm increments)	P7	
	C 17C	C 77	7 56				160 175	175	100 to 700 (Available in	P9							
	SA7C			8	265			20	8		6.1	8.8	16.8	1/5	50-mm increments)	P9	

Cantilever

Series	Type	Actuator width	Motor	Ball screw lead (mm) Maxi- mum (mm/s) Acceleration (G) Horizontal payload (kg) Positioning repeatability (mm) Dynamic allowable moment (N-m) Overhang load Ball screw (mm) Speed (mm/s) Maxi- mum Rated Rated mum acceleration Maximum acceleration Positioning (mm) Dynamic allowable (mm) Overhang load Overhang load	Stroke (mm)	Page										
	Type	(mm)	type			Rated				(mm)	Ма	Mb	Ma	Stroke (mm)	rage	
	SA5C	55	35 🗌	10	330			1.5 2	0.5		1.7	25	4	75		P5
				5	165				1	1		2.5	4	/5		P5
RCP4W	SA6C	62	42 🗌	12	400	0.2	0.6	3	1.5	±0.02		24	5.5	90	150 may	P7
RCP4W	SAOC	02		6	200	0.3		4.5	2.5		2.4	3.4	5.5	90	150 max.	P7
	SA7C	77		16	530			4.5	3		3.1		0.4	105		P9
	SA/C		56	8	265			7	4			1 4.4	8.4	105		- 19

System Configuration * For details on each device, refer to the RCP4 catalog.



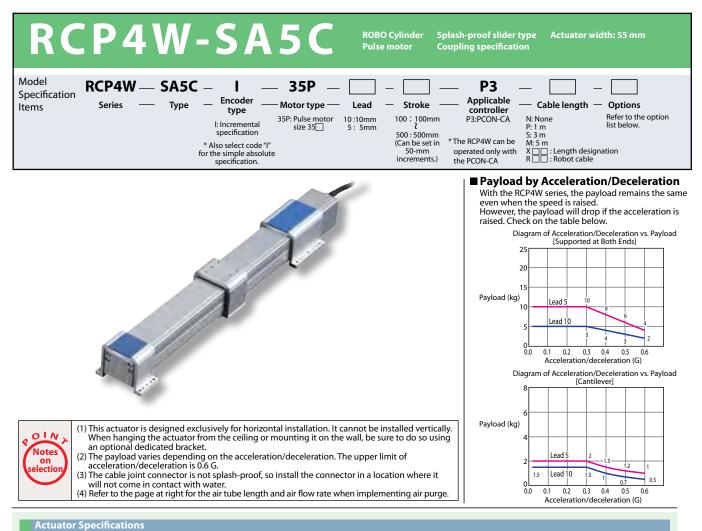


Handling Precautions

- 1. This actuator cannot be used in applications where it comes in direct contact with food which will be sold.
- 2. Keep the acceleration/deceleration at or below the maximum value. If the actuator is operated beyond the maximum acceleration/deceleration (0.6 G), abnormal noise/vibration, failure or shorter life may result.
- 3. Keep the allowable load moments and overhang load length within the allowable values. If the actuator is operated beyond the allowable values, abnormal noise/vibration, failure or shorter life may result.
- The actuator must be installed horizontally. It can be hung from the ceiling or mounted on the wall only when a dedicated bracket is used.
 If the actuator is used in an environment subject to powder dust or water splashes, supply air from the air supply port provided on the rear of the actuator (air purge). For the amount of air to be supplied, etc., refer to the page of the specific model.
- 6. Consult IAI on a special environment (such as when a chemical coolant other than water is used).

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■ Leads and Pavloads

Actuator opecaneations								
Leads and Payloads	Stroke and Maximum Speed							
Model number		Maximum horizontal payload (kg) Supported on		push force	Positioning repeatability	Stroke	Stroke Lead	100 to 500 (in 50-mm increments)
	(mm)	both ends	Cantilever	. (N)	(mm)	(mm)	10	330
RCP4W-SA5C-I-35P-10-①-P3-②-③	10	5	1.5	66.9	±0.02	100 to 500		
RCP4W-SA5C-I-35P-5-①-P3-②-③	5	10	2	147.9		(in 50-mm increments)	5	165

Legend ① Stroke ② Cable length ③ Options

① Stroke	
Stroke (mm)	Standard price
100	-
150	-
200	-
250	-
300	-
350	-
400	-
450	-
500	-

3 Options

Name	Option code	See page	Standard price
Cable exit from the left side face	A1	→P4	
Cable exit from the right side face	A3	→P4	-
Additional alumite coating	AL	→P4	-
Food grade grease (edible grease)	GE	→P4	
Non-motor side specification	NM	→P4	-
Ceiling mount (bracket mounted on the left)	HFL	→P4	
Ceiling mount (bracket mounted on the right)	HFR	→P4	
Wall mount sideways on the left	TFL	→P4	-
Wall mount sideways on the right	TFR	→P4	

© Cable length											
Туре	Cable symbol	Standard price									
	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)	-									

Actuator Specifications

	ltem	Description				
Drive system		Ball screw φ8 mm, rolled C10				
Positioning repea	atability	±0.02mm				
Lost motion		0.1 mm or less				
Static allowable	Supported on both ends	Ma: 5.9 N•m Mb: 8.4 N•m Mc: 13.7 N•m				
moment	Cantilever	Ma: 2.9 N•m Mb: 4.2 N•m Mc: 6.8 N•m				
Dynamic allowable	Supported on both ends	Ma: 3.4 N•m Mb: 4.9 N•m Mc: 8.0 N•m				
moment (*)	Cantilever	Ma: 1.7 N•m Mb: 2.5 N•m Mc: 4.0 N•m				
Overhang load	Supported on both ends	125mm or less				
length	Cantilever	75 mm or less				
Protective structu		IP65 (with air purge)				
Ambient operating	g temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)				

(*) Based on 5,000 km of traveling life

Allowable load moment directions





(unit: mm/s)



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Dimensional Drawings

2D CAD

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Materials of Main Components

	laterials of Main C	omponents	
Θ	Base	Extruded aluminum (A6063)	Surface treatment: Alumite coating
2	Table	Extruded aluminum (A6063)	Surface treatment: Alumite coating (excluding machined areas)
3	Mounting bracket (front/rear)	Extruded aluminum (A6063)	Surface treatment: Alumite coating (excluding machined areas)
€	Side cover	Extruded aluminum (A6063)	Surface treatment: Alumite coating
5	Motor cover	Die-cast aluminum (ADC12)	Surface treatment: Alumite coating + Paint
6	Front cover	Die-cast aluminum (ADC12)	Surface treatment: Alumite coating + Paint
0	Seal	Urethane rubber (U)	
8	Actuator cable	Polyvinyl chloride (PVC)	* High flex type cable
9	Air purge joint	Polyphenylene sulfide (PPS)	

mechanical end. *3 Reference position for calculating moments.

mount specification. *1 Connect the motor and encoder cables.

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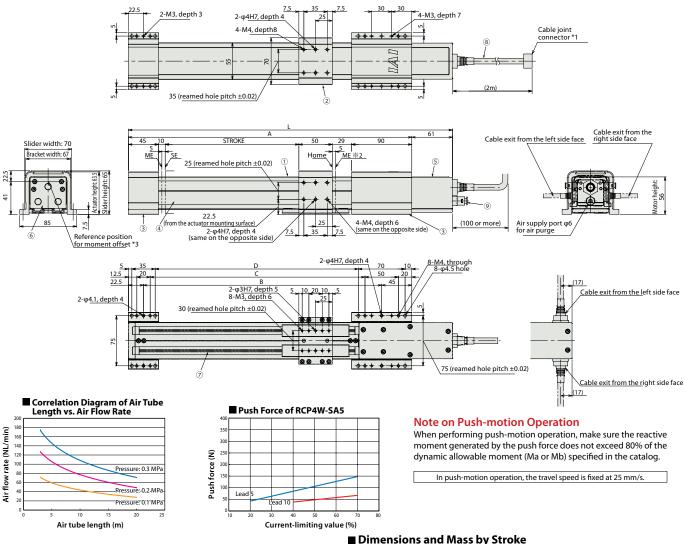
* See P11 for the dimensional drawing for

the dimensional drawing for the wall

*2 During home return, be careful to avoid interference from peripheral objects because the slider travels until the

the ceiling mount specification. See P12 for

Alumite coating has been removed in the machined areas of the table O and mounting bracket O. To add alumite coating to these areas, specify the "Additional alumite coating (code: AL)" option.



 The above correlation diagram assumes an air tube of 6 mm in outer diameter and 4 mm in inner diameter. (A joint of 6 mm in outer diameter is used on the actuator side.)

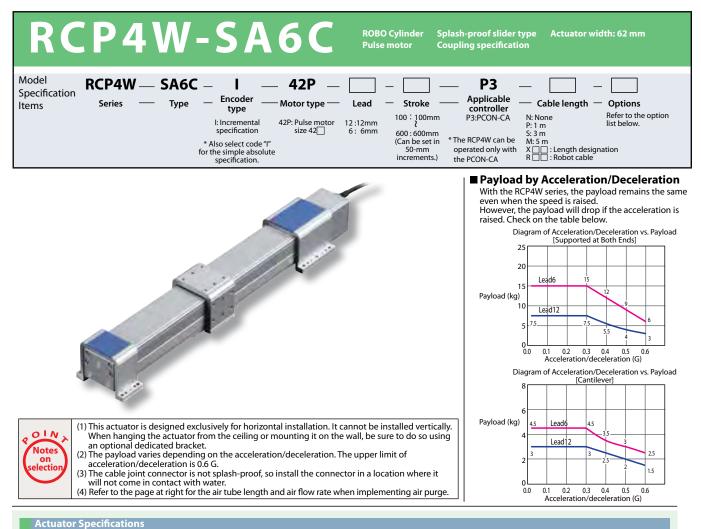
• Use the correlation diagram as a reference to determine an appropriate pressure and air tube length in such a way that the air flow rate will become 40 NL/min or more (clean dry air).

				,					
Stroke	100	150	200	250	300	350	400	450	500
L	385	435	485	535	585	635	685	735	785
A	324	374	424	474	524	574	624	674	724
В	256.5	306.5	356.5	406.5	456.5	506.5	556.5	606.5	656.5
C	221.5	271.5	321.5	371.5	421.5	471.5	521.5	571.5	621.5
D	204	254	304	354	404	454	504	554	604
Mass (kg)	2.8	2.9	3.1	3.2	3.4	3.5	3.7	3.8	4.0

Applicable Co	ontroller							
RCP4W series actu according to your	ators can be o intended applic	perated with the controllers ation.	(Note) These actuators cannot be operated with controllers other than the PCON-CA.					
Title	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page
Positioner type (NPN specification)	N	PCON-CA-35PI-NP0	Register positions to move the actuator into the controller beforehand, and specify the number	512 points				
Positioner type (PNP specification)			corresponding to each desired position to operate the actuator.	512 points	DC24V	Rated: 3.5 A Maximum: 4.2 A	_	P13
Pulse-train type (NPN specification)	1	PCON-CA-35PI-PLN0	The actuator can be operated freely		DC24V			P13
Pulse-train type (PNP specification)		PCON-CA-35PI-PLP0	via pulse-train controller from an external output device.					

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■ Leads and Pavloads

Leads and Payloads							Stroke and	Maximum Speed
Model number	Leau	Maximum horizontal payload (kg)		Maximum	Positioning repeatability	Stroke	Lead Stroke	100 to 600 (in 50-mm increments)
	(mm)	Supported on both ends	Cantilever	(N)	(mm)	(mm)	12	400
RCP4W-SA6C-I-42P-12-①-P3-②-③	12	7.5	3	82.8		100 to 600		
RCP4W-SA6C-I-42P-6-①-P3-②-③	6	15	4.5	179.5		(in 50-mm increments)	6	200
Lagand @Stroke@Cable longth @Ontions		•						(unit: mm/s)

Legend ① Stroke ② Cable length ③ Options

① Stroke	
Stroke (mm)	Standard price
100	-
150	-
200	-
250	-
300	-
350	-
400	-
450	-
500	-
550	-
600	-

③ Options

Name	Option code	See page	Standard price
Cable exit from the left side face	A1	→P4	
Cable exit from the right side face	A3	→P4	-
Additional alumite coating	AL	→P4	-
Food grade grease (edible grease)	GE	→P4	
Non-motor side specification	NM	→P4	-
Ceiling mount (bracket mounted on the left)	HFL	→P4	
Ceiling mount (bracket mounted on the right)	HFR	→P4	
Wall mount sideways on the left	TFL	→P4	-
Wall mount sideways on the right	TFR	→P4	

②Cable length										
Туре		Cab	le symbol	Standard price						
	P (1m)			-						
Standard type	S (3m)			-						
	M (5m)			-						
	X06(6m)	~	X10 (10m)	-						
Special length	X11(11m)	~	X15 (15m)	-						
	X16 (16m)	٢	X20 (20m)	-						
	R01 (1m)	~	R03 (3m)	-						
	R04 (4m)	~	R05 (5m)	-						
Robot cable	R06 (6m)	~	R10 (10m)	-						
	R11 (11m)	~	R15 (15m)	-						
	R16 (16m)	~	R20 (20m)	-						

Actuator Specifications

rectuation o	beemeations					
	Item	Description				
Drive system		Ball screw φ10 mm, rolled C10				
Positioning repea	atability	±0.02mm				
Lost motion		0.1 mm or less				
Static allowable	Supported on both ends	Ma: 8.5 N•m Mb: 12.2 N•m Mc: 19.9 N•m				
moment	Cantilever	Ma: 4.3 N•m Mb: 6.1 N•m Mc: 10.0 N•m				
Dynamic allowable	Supported on both ends	Ma: 4.7 N•m Mb: 6.7 N•m Mc: 11.0 N•m				
moment (*)	Cantilever	Ma: 2.4 N•m Mb: 3.4 N•m Mc: 5.5 N•m				
Overhang load	Supported on both ends	150mm or less				
length	Cantilever	90 mm or less				
Protective structu	ure	IP65 (with air purge)				
Ambient operating	g temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)				

(*) Based on 5,000 km of traveling life

Allowable load moment directions





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Dimensional Drawings

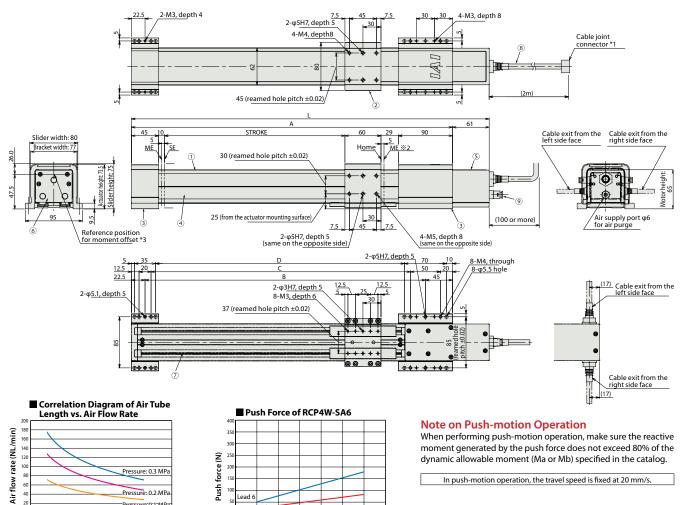
www.intelligentactuator.com ■ Materials of Main Components * See P11 for the dimensional drawing for 2D the ceiling mount specification. See P12 for (CAD the dimensional drawing for the wall mount specification.

*1 Connect the motor and encoder cables.

- *2 During home return, be careful to avoid interference from peripheral objects because the slider travels until the mechanical end.
- *3 Reference position for calculating moments.

1	Base	Extruded aluminum (A6063)	Surface treatment: Alumite coating
2	Table	Extruded aluminum (A6063)	Surface treatment: Alumite coating (excluding machined areas)
3	Mounting bracket (front/rear)	Extruded aluminum (A6063)	Surface treatment: Alumite coating (excluding machined areas)
4	Side cover	Extruded aluminum (A6063)	Surface treatment: Alumite coating
5	Motor cover	Die-cast aluminum (ADC12)	Surface treatment: Alumite coating + Paint
6	Front cover	Die-cast aluminum (ADC12)	Surface treatment: Alumite coating + Paint
0	Seal	Urethane rubber (U)	
8	Actuator cable	Polyvinyl chloride (PVC)	* High flex type cable
9	Air purge joint	Polyphenylene sulfide (PPS)	

Alumite coating has been removed in the machined areas of the table O and mounting bracket O. To add alumite coating to these areas, specify the "Additional alumite coating (code: AL)" option.



Dimensions and Mass by Stroke

• The above correlation diagram assumes an air tube of 6 mm in outer diameter and 4 mm in inner diameter. (A joint of 6 mm in outer diameter is used on the actuator side.)

Pressure: 0:1 MPa

Air tube length (m)

20

ead 6

Lead 12

Current-limiting value (%)

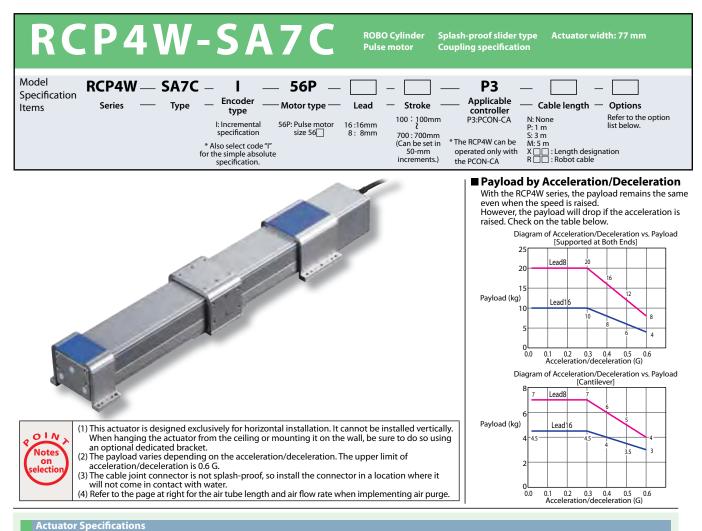
• Use the correlation diagram as a reference to determine an appropriate pressure and air tube length in such a way that the air flow rate will become 40 NL/min or more (clean dry air).

	510115		u35 0;	, 50.0							
Stroke	100	150	200	250	300	350	400	450	500	550	600
L	395	445	495	545	595	645	695	745	795	845	895
A	334	384	434	484	534	584	634	684	734	784	834
В	266.5	316.5	366.5	416.5	466.5	516.5	566.5	616.5	666.5	716.5	766.5
C	231.5	281.5	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5
D	214	264	314	364	414	464	514	564	614	664	714
Mass (kg)	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.3	5.5	5.8	6.0

Applicable C RCP4W series actu according to your	uators can be o	(Note) These actuators cannot be operated with controllers other than the PCON-CA.						
Title	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page
Positioner type (NPN specification)			Register positions to move the actuator into the controller	512 points	DC24V			
Positioner type (PNP specification)			beforehand, and specify the number corresponding to each desired position to operate the actuator.	512 points		Rated: 3.5 A	_	P13
Pulse-train type (NPN specification)	n)	PCON-CA-42PI-PLN0	The actuator can be operated freely		DC24V	Maximum: 4.2 A		- 13
Pulse-train type (PNP specification)			via pulse-train controller from an external output device.				_	

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Actuator	2	pecification
aads an	Ь	Pavloads

Eedus allu Paylodus							Stroke and	Maximum Speed	
	Lead	Maximum horizonta	l payload (kg)	Maximum	Positioning Stroke		Lead Stroke		
Model number	(mm)	Supported on	ed on		repeatability	(mm)	Leau	(in 50-mm increments)	
		both ends	Cantilever	. (N)	(mm)	()	16	530	
RCP4W-SA7C-I-56P-16-0-P3-0-3	16	10	4.5	161.9		100 to 700			
	0	20	7	227.0		(in 50-mm	8	265	
RCP4W-SA7C-I-56P-8-①-P3-②-③	8	20	/	337.9		increments)			
								(unit: mm/s)	

Legend ① Stroke ② Cable length ③ Options

① Stroke	
Stroke (mm)	Standard price
100	-
150	-
200	-
250	-
300	-
350	-
400	-
450	-
500	-
550	-
600	-
650	-
700	-

③ Options

Name	Option code	See page	Standard price
Cable exit from the left side face	A1	→P4	
Cable exit from the right side face	A3	→P4	-
Additional alumite coating	AL	→P4	-
Food grade grease (edible grease)	GE	→P4	
Non-motor side specification	NM	→P4	-
Ceiling mount (bracket mounted on the left)	HFL	→P4	
Ceiling mount (bracket mounted on the right)	HFR	→P4	
Wall mount sideways on the left	TFL	→P4	-
Wall mount sideways on the right	TFR	→P4	1

② Cable length									
Туре	Cable symbol Standard price								
	P (1m)			-					
Standard type	S (3m)		-						
	M (5m)			-					
	X06 (6m)	٢	X10 (10m)	-					
Special length	X11 (11m)	~	X15 (15m)	-					
	X16 (16m)	2	X20 (20m)	-					
	R01 (1m)	2	R03 (3m)	-					
	R04 (4m)	~	R05 (5m)	-					
Robot cable	R06 (6m)	٢	R10 (10m)	-					
	R11 (11m)	~	R15 (15m)	-					
	R16 (16m)	٢	R20 (20m)	-					

Actuator Specifications

	Item	Description						
Drive system		Ball screw φ12 mm, rolled C10						
Positioning repea	itability	±0.02mm						
Lost motion		0.1 mm or less						
Static allowable	Supported on both ends	Ma: 11.7N•m Mb: 16.6 N•m Mc: 31.8 N•n						
moment	Cantilever	Ma: 5.8 N•m Mb: 8.3 N•m Mc: 15.9 N•m						
Dynamic allowable	Supported on both ends	Ma: 6.1 N•m Mb: 8.8 N•m Mc: 16.8 N•m						
moment (*)	Cantilever	Ma:3.1 N•m Mb: 4.4 N•m Mc: 8.4 N•m						
Overhang load	Supported on both ends	175 mm or less						
length	Cantilever	105 mm or less						
Protective structu	ıre	IP65 (with air purge)						
Ambient operating	g temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)						

(*) Based on 5,000 km of traveling life

Allowable load moment directions



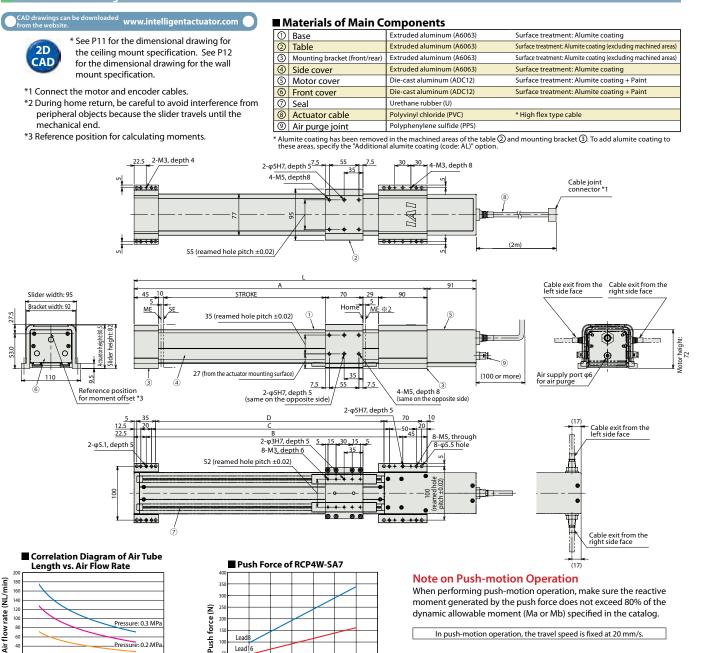
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Stroke and Maximum Space

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Dimensional Drawings



• The above correlation diagram assumes an air tube of 6 mm in outer diameter and 4 mm in inner diameter. (A joint of 6 mm in outer diameter is used on the actuator side.) • Use the correlation diagram as a reference to

Pressure: 0:1 MPa

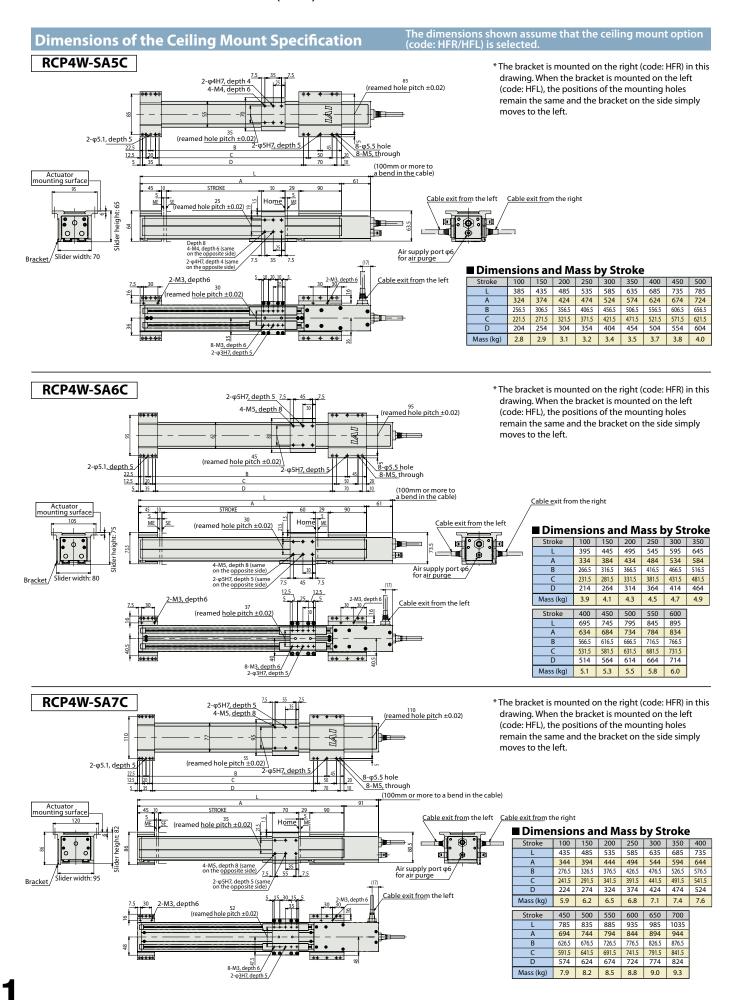
determine an appropriate pressure and air tube length in such a way that the air flow rate will become 40 NL/min or more (clean dry air).

Air tube length (m)

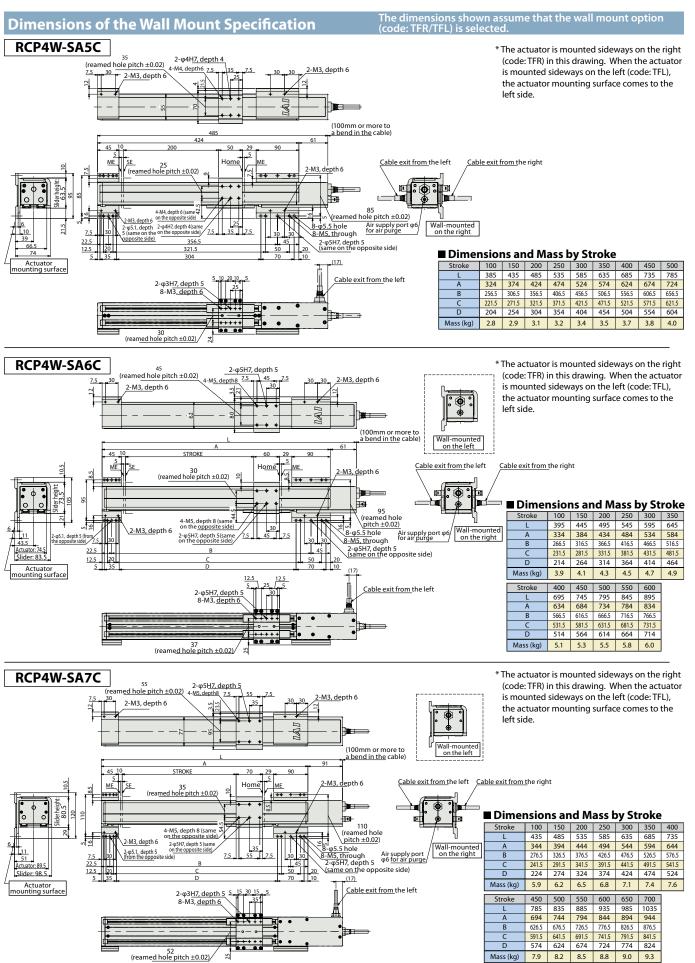
10	Current-limiting value (%)													
I	Dimensions and Mass by Stroke													
	Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700
	L	435	485	535	585	635	685	735	785	835	885	935	985	1035
	A	344	394	444	494	544	594	644	694	744	794	844	894	944
	В	276.5	326.5	376.5	426.5	476.5	526.5	576.5	626.5	676.5	726.5	776.5	826.5	876.5
	C	241.5	291.5	341.5	391.5	441.5	491.5	541.5	591.5	641.5	691.5	741.5	791.5	841.5
	D	224	274	324	374	424	474	524	574	624	674	724	774	824
	Mass (kg)	5.9	6.2	6.5	6.8	7.1	7.4	7.6	7.9	8.2	8.5	9.8	9.0	9.3

Applicable C	ontroller							
RCP4W series actu according to your	uators can be o intended applic	(Note) Thes other than t	(Note) These actuators cannot be operated with controllers other than the PCON-CA.					
Title	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page
Positioner type (NPN specification)		PCON-CA-56PI-NP0	Register positions to move the actuator into the controller	513 - cinta				
Positioner type (PNP specification)		PCON-CA-56PI-PN0	peforehand, and specify the number corresponding to each desired position to operate the actuator.	512 points	DC24V	Rated: 3.5 A Maximum: 4.2 A	-	012
Pulse-train type (NPN specification)		PCON-CA-56PI-PLN0	The actuator can be operated freely					P13
Pulse-train type (PNP specification)		PCON-CA-56PI-PLP0	via pulse-train controller from an external output device.	—			-	

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Positioner / Pulse-train Type Controller with High-output Driver for RCP4W <Power CON 150>

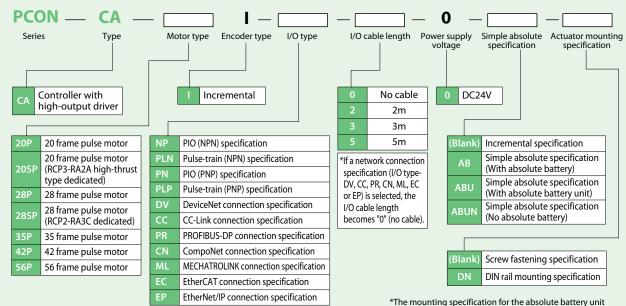
(Refer to the RCP4 catalog for details on this controller.) * The RCP4W can be operated only with the PCON-CA.

List of Models

ROBO Cylinder Position Controller PowerCON 150 < PCON-CA>

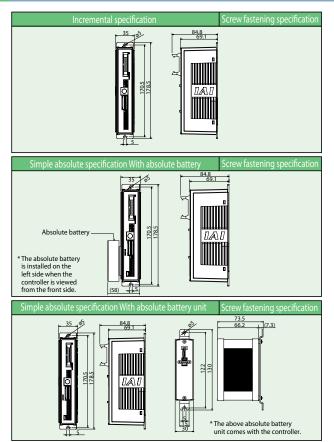
		Ext	ernal view										
	l/O type			Pulse-train type	Field network type								
			Positioner type		DeviceNet	CC·Link	₽₽ŎĘŢ [®] ∎busi	CompoNet	AMEDIATROLINK	Ether CAT	EtherNet/IP>		
					DeviceNet connection specification	CC-Link connection specification	PROFIBUS-DP connection specification	CompoNet connection specification	MECHATROLINK connection specification	EtherCAT connection specification	EtherNet/IP connection specification		
	I/O type model number		NP/PN	PLN/PLP	DV	CC	PR	CN	ML	EC	EP		
	ဗ္မ Incremental specification		_	_	_	-	_	_	_	_	_		
	Standard price	Simple with absolute battery –	-	_	-	-	-	-	-	-			
	anda e	absolute	with absolute battery unit	_	_	_	_	_	-	_	_	_	
	specification	No absolute battery	-	-	-	-	-	-	-	-	-		

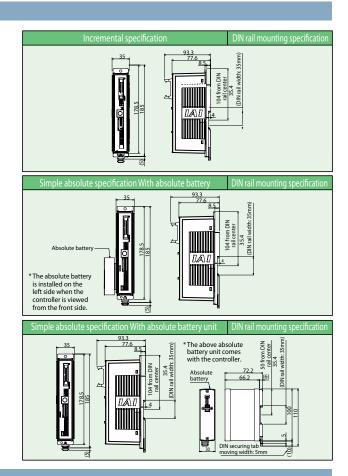
Model Number



The mounting specification for the absolute battery unit (screws mounting or DIN rail mounting) conforms to the mounting specification for the controller.

External Dimensions





Specification Table

Item				Description					
Number of controlled axes				1 axis					
Power supply voltage				24VDC ± 10%					
Load capacity	RCP4W	Motor type	35P, 42P, 56P	Rated 3.5 A / maximum 4.2 A (Note 1)					
Heat outpu	ıt		RCP4W	8W					
Rush curre	nt (Note 2))		8.3A					
Actuator ca	able lengtl	ı		20m max.					
External in	terface		PIO specification	Dedicated 24-VDC signal input/output (NPN or PNP selected) Up to 16 input points, up to 16 output points / Cable length: 10 m max.					
Data setting/input method				PC software, touch-panel teaching pendant, teaching pendant					
Data retent	Data retention memory			Position data and parameters are saved in the non-volatile memory (rewrite life: unlimited)					
Number of positions in positioner mode			ioner mode	Standard 64 points, maximum 512 points (PIO specification) Note) Positioning points vary depending on the selected PIO pattern.					
			Input pulse	Differential method (line driver method): 200 kpps max. / Cable length: 10 m max.					
			input puise	Open collector method: Not supported (Note 3)					
Pulse-train	interface		Command pulse magnification (electronic gear ratio: A/B)	1/50 < A/B < 50/1 Setting range of A and B (set by parameters): 1 to 4096					
			Feedback pulse output	None					
LED display (installed on the front panel)			front panel)	SV (green)/ALM (red): Servo ON/alarm generation STS0 to 3: Status indication RDY (green)/ALM (red): Absolute function normal/absolute function abnormal (simple absolute specification 1,0 (green) (red): Absolute function status indication (simple absolute specification)					
Isolation resistance				500 VDC, 10 M Ω or more					
Mass Incremental specification			cification	Screw fastening type: 250g or less DIN rail securing type: 285g or less					
(Note 4)	Simple abso	lute specifi	cation (190g of battery weight included)	Screw fastening type: 450g or less DIN rail securing type: 485g or less					
	Ambient	operati	ing temperature	0 to 40°C					
Environment	Ambient	operati	ing humidity	85%RH or less (non-condensing)					
	Operating ambience			Not exposed to corrosive gases					

(Note 1) The value increases by 0.3 A for the field network specification.

(Note 2) After the power is turned on, rush current will flow for approx. 5msec (at 40°C). Take note that the rush current varies depending on the impedance of the power-supply line.

(Note 3) If the host implements open collector output, use the separately sold AK-04 (optional) to convert the signals to differential output signals. (Note 4) The value increases by 30g for the field network specification.

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