RCP6 ROBO Cylinder®



(5) Depending on the ambient operational temperature, duty control is necessary for the RCP6S (built-in controller type	e) with
lead 3/6. Please refer to P.130 for more information.	

Actuator Specifications											
Lead and Payload							Str	oke and Ma	ix. Speed	(Unit: mm/s)	
Model Number	Lead (mm)	Connected Controller	Max. Payload Stroke Horizontal (kg) Vertical (kg) (mm)		Connected Max. Paylo Controller Horizontal (kg) Vert			Lead (mm)	Connected Controller	50~300 (Every 50mm)	
RCP6(S)-RA6C-WA-42P-20-10-12-3-4	20	High-output Enabled	6	1.5			20	High-output Enabled	800		
RCP6(S)-RA6C-WA-42P-12-10-12-13-4	12	High-output Enabled	25	4	50~300		12	High-output Enabled	700		
RCP6(S)-RA6C-WA-42P-6-①-②-③-④	6	High-output Enabled	40	10	of stroke is 50mm)		6	High-output Enabled	450		
RCP6(S)-RA6C-WA-42P-3-①-②-③-④	3	High-output Enabled	60	20			3	High-output Enabled	225		

Legend: ① Stroke ② Applicable controller/I/O type ③ Cable length ④ Options

\cup Stroke		
Stroke (mm)	RCP6	

Stroke (mm)	RCP6	RCP6S	Stroke (mm)	RCP6	RCP6S
50	0	0	200	0	0
100	0	0	250	0	0
150	0	0	300	0	0

④ Options

Name	Option Code	Reference Page
Brake	В	See P.105
Cable exit direction (Top)	CJT	See P.105
Cable exit direction (Right)	CJR	See P.105
Cable exit direction (Left)	CJL	See P.105
Cable exit direction (Bottom)	CJB	See P.105
Flange	FL	See P.106
Foot bracket	FT	See P.107
Tip adapter (Internal thread)	NFA	See P.109
Non-motor end specification	NM	See P.110
T-slot nut bar	NTB	See P.110

When selecting multiple options, please list them in alphabetical order. (e.g. B-CJB-NM)

③ Cable Length									
Cable Type	Cable Code RCP6 RCP6S								
	P (1m)	0	0						
Standard	S (3m)	0	0						
	M (5m)	0	0						
	X06 (6m) ~X10 (10m)	0	0						
Specified Length	X11 (11m) ~X15 (15m)	0	0						
	X16 (16m) ~X20 (20m)	0	0						
	R01 (1m) ~R03 (3m)	0	0						
	R04 (4m) ~R05 (5m)	0	0						
Robot Cable	R06 (6m) ~R10 (10m)	0	0						
	R11 (11m) ~R15 (15m)	0	0						
	R16 (16m) ~R20 (20m)	0	0						

100 200 300 400 500 600 700 800 900 1000 Speed (mm/s)

0

* Please refer to P.144 for more information regarding the maintenance cables.

Actuator Specifications

ltem	Description
Drive system	Ball screw \u00e910mm, rolled C10
Positioning repeatability	±0.01mm
Lost motion	0.1mm or less
Rod	φ25mm Material: Aluminum with hard alumite treatment
Static allowable torque on rod tip	1.5N•m
Max. angular displacement on rod tip (*1)	±1.0 deg.
Ambient operating temp. & humidity	0~40°C, 85% RH or less (Non-condensing)

(*1) This is the displacement angle of the rod tip (initial reference value) when the rod is fully retracted and the static allowable torque is applied at the rod tip.



Dimensions and Mass by Stroke

	Strok	e	50	100	150	200	250	300
	DCD6	w/o brake	301.5	351.5	401.5	451.5	501.5	551.5
	nCr0	w/ brake	341	391	441	491	541	591
L	DCDCC	w/o brake	339.5	389.5	439.5	489.5	539.5	589.5
	RCP05	w/ brake	379	429	479	529	579	629
	A		189	239	289	339	389	439
	DCDC	w/o brake	2.5	2.9	3.3	3.6	4.0	4.4
Mass	RCPO	w/ brake	2.7	3.1	3.5	3.9	4.3	4.7
(kg)	DCD45	w/o brake	2.6	3.0	3.4	3.8	4.2	4.6
-	nCP03	w/ brake	2.9	3.2	3.6	4.0	4.4	4.8

2 Applicable Controllers									
The RCP6 series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use. * Please refer to P.147 for more information about the built-in controller of RCP65 series.									
Name	External	Max. number of	Input power		Control method			Maximum number	Reference nage
Nume	view	controlled axes	input power	Positioner	Pulse train	Program	Network *Option	of positioning points	nererence page
PCON-CB/CGB		1		● *Option	● *Option	-	DeviceNet MEDATROLA	512 (768 for network spec.)	Please see P.131
MCON-C/CG		4	DC24V	This model is network-compatible only.		CompoNet	256	Please see the MCON catalog.	
MSEL-PC/PG		4	Single-phase 100~230VAC	-	- •		will vary depending on the controller. Please refer to reference page for more information.	or 30,000	Please see the MSEL- PC/PG catalog.



