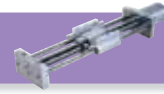


Model Selection

ER080 CYLINDER
RCP3

3 Check Specifications

Dustproof/Splash-Proof Type



The criteria for selecting the dustproof/splash-proof type are different depending on whether it will be used for [positioning](#) or [pushing](#).

[Positioning]

For positioning motions, the criteria for selection are: (1) stroke; (2) load capacity; and (3) speed. From the table below, select a model that meets your requirements for the stroke, load capacity, and speed. For [RCP2W](#), which uses a pulse motor, [the load capacity changes with speed](#). See the "[Speed vs. Load Capacity](#)" chart on each respective page to check if the desired speed and load capacity are supported.

[Pushing]

For pushing motions, the criteria for selection are: (1) stroke and (2) maximum pushing force. From the table below, select a model that meets your requirements for the stroke and pushing force. We recommend the [pulse motor model \(RCP2W\)](#) for the pushing motion, because of the motor's characteristics. Moreover, the pushing force is adjustable between 20% to 70% (max. pushing force at 70%).

[How to Read the Table]

Dustproof/Splash-Proof																							
Type	Image	Stroke (mm) and Maximum Speed (mm/sec)														Rated Thrust (N)	Max. Push Force (N)	Load Capacity (kg)		Encoder Type	Controller Input Power	Model	See Page
		50mm	100	150	200	250	300	350	400	450	500	550	600	650	700			H	V				
SA16		180														-	N/A	-25	-	I	⊖24V	RCP2W-SA16C-I-86P-8-***	P.443
		133														-	N/A	-35	-			RCP2W-SA16C-I-86P-4-***	
RA4		450<250>														-	150	-25	-4.5	I	⊖24V	RCP2W-RA4C-I-42P-10-***	P.445
		190														-	284	-40	-12			RCP2W-RA4C-I-42P-5-***	
		125<115>														-	358	40	-19			RCP2W-RA4C-I-42P-2.5-***	

* Length of bar = stroke * Number inside bar = max. speed by stroke. < > denotes vertical use
 □ denotes motor shape
 ○ denotes encoder type
 *** denotes stroke

Maximum Speed →
 Stroke Range →
 Maximum Push Force →
 Vertical Load Capacity →
 Horizontal Load Capacity →

Dustproof/Splash-Proof

Type	Stroke(mm) and Maximum Speed(mm/sec) * Length of bar = stroke * Number inside bar = max. speed by stroke, <> denotes vertical use	Rated Thrust (N)	Max. Push Force (N)	Load Capacity (kg)		Encoder Type	Controller Input Power	Model	See Page				
				H	V								
				50mm	100					150	200	250	300
SA16	180	-	N/A	~25	-	I	⊖24V	RCP2W-SA16C-I-86P-8-***	P.443				
	133	-	N/A	~35	-			RCP2W-SA16C-I-86P-4-***					
RA4	450<250> 450<250> 350<250>	-	150	~25	-4.5	I	⊖24V	RCP2W-RA4C-I-42P-10-***	P.445				
	190 190 175	-	284	~40	-12			RCP2W-RA4C-I-42P-5-***					
	125<115> 115 85	-	358	40	-19			RCP2W-RA4C-I-42P-2.5-***					
RA6	320<265>	-	240	~40	-5	I	⊖24V	RCP2W-RA6C-I-56P-16-***	P.447				
	200	-	470	50	-17.5			RCP2W-RA6C-I-56P-8-***					
	100	-	800	55	-26			RCP2W-RA6C-I-56P-4-***					
RA10	250<167>	-	1500	~80	~80	I	⊖24V	RCP2W-RA10C-I-86P-10-***	P.449				
	125	-	3000	150	-100			RCP2W-RA10C-I-86P-5-***					
	63	-	6000	300	-150			RCP2W-RA10C-I-86P-2.5-***					
RA3	500	36.2	-	4	1.5	I	⊖24V	RCAW-RA3□-I-20-10-***	P.455				
	250	72.4	-	9	3			RCAW-RA3□-I-20-5-***					
	125	144.8	-	18	6.5			RCAW-RA3□-I-20-2.5-***					
RA4	600	18.9	-	3	1	I	⊖24V	RCAW-RA4□-○-20-12-***	P.457				
	300	37.7	-	6	2			RCAW-RA4□-○-20-6-***					
	150	75.4	-	12	4			RCAW-RA4□-○-20-3-***					
	600	28.3	-	4	1.5			RCAW-RA4□-○-30-12-***					
	300	56.6	-	9	3			RCAW-RA4□-○-30-6-***					
	150	113.1	-	18	6.5			RCAW-RA4□-○-30-3-***					
	600	18.9	-	3	1	A	⊖100V ⊖200V	RCS2W-RA4□-○-20-12-***	P.459				
	300	37.7	-	6	2			RCS2W-RA4□-○-20-6-***					
	150	75.4	-	12	4			RCS2W-RA4□-○-20-3-***					
	600	28.3	-	4	1.5			RCS2W-RA4□-○-30-12-***					
	300	56.6	-	9	3			RCS2W-RA4□-○-30-6-***					
	150	113.1	-	18	6.5			RCS2W-RA4□-○-30-3-***					

* < > is for vertical use

I = Incremental

A = Absolute

⊖ = DC

⊖ = AC