

- (1) The payload is determined by the acceleration and duty.

 Verify the payload in the payload (horizontal) and acceleration chart at right. Operating time - x 100 per cycle. The duty is Operating time + stop time
- (2) If the actuator is operated vertically, use the optional brake specification.
- (3) Please use an external guide to avoid a horizontal or rotational load applied to the rod.
- (4) The pushing force fluctuation increases when the current limit is low.
- (5) Simple absolute unit cannot be used with the RCL series.

■ Relation between payload (horizontal) and acceleration

Load Capacity (kg)					
		Duty is 70% or less			
Holizontal	Vertical	Holizontal	Vertical		
2					
2	0.4	2	0.4		
1.6	0.4				
0.78		1			
0.46	_	0.6	_		
0.3	1	0.4	ı		
	(Duty is Holizontal 2 1.6 0.78 0.46	Continuous operation (Duty is 100%) Holizontal Vertical 2	Continuous operation (Duty is 100%) Duty is 70 Holizontal Vertical Holizontal 2 0.4 2 1.6 0.78 1 0.46 — 0.6		

■ Pushing force guidelines

Pushing operation is possible within the range of numeric values listed below.

Electric current limit	30%	40%	50%	60%	70%	80%
Pushing force	3	4	5	6	7	8

^{*} The pushing forces listed above are for horizontal usage. If facing vertically upward, subtract 1.8N from the numeric values listed above, but if facing vertically downward, add 1.8N.

Actuator Specifications

Leads and Payload

<u> </u>									
Model number	Motor	Maximum payload		Rated	Instantaneous	Maximum	Positioning repeatability	Stroke	
Model number	output(W)	Horizontal (kg)	Vertical (kg)	thrust (N)	maximum thrust (N)	acceleration (G)	(mm)	(mm)	
RCL-RA3L-I-10-N-40-①-②-③	10	See chart above	See chart above	10	30	Holizontal 2G Vertical 1G	±0.1	40 (Fixed)	

■ Stroke and Maximum Speed

Stroke Lead	40 (mm)
(no screw)	450

(Unit: mm/s)

(N)

Stroke (mm)	Standard price
40	_

③ Options Title Standard Price Option code See page Brake (with brake box) → P442 Brake (without brake box) → P442

②Cable Length

Туре	Cable symbol	Standard price			
	Cable syllibol	without Brake	with Brake		
Standard	P (1m)	_	_		
(Robot Cables)	S (3m)	_	_		
	M (5m)	_	_		
	X06 (6m) ~ X10 (10m)	_	_		
Special length	X11 (11m) ~ X15 (15m)	_	_		
	X16 (16m) ~ X20 (20m)	_	_		

- The standard cable for the RCL is the robot cable.
- * See page A-59 for the cable for non-brake specification.

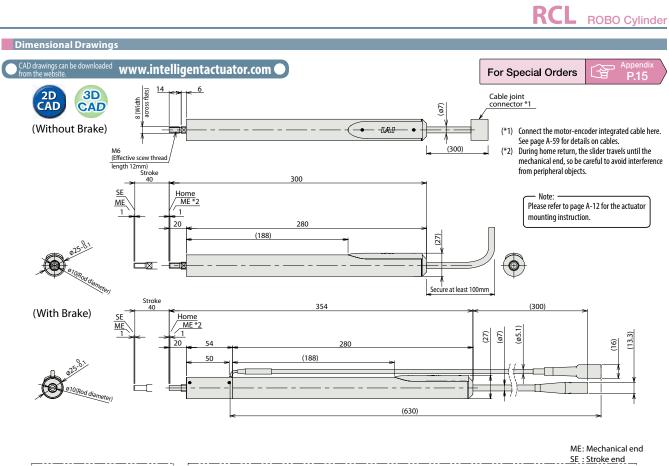
 * See page 442 for the cable for brake specification.

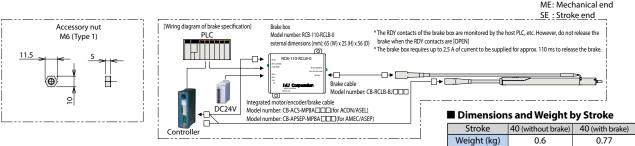
 (All prices represent the total of an integrated motor/encoder/brake cable.)

Actuator Specifications

ltem	Description				
Drive System	Linear servo motor				
Encoder resolution	0.042mm				
Pipe	Material: Nickel-plated carbon steel tube				
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)				
Service life	10 million cycles				

^{*}The brake box and cable with brake is needed to use the brake. If only the actuator with brake is needed for a repair, specify the BN (specification without brake box).





Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Referen page
61	W.	AMEC-C-10I-①-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P53
Solenoid Valve Type		ASEP-C-10I-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points	DC24V	1.3A rated 6.4A max.	_	→ P54
Solenoid valve multi-axis type PIO specification		MSEP-C-()-~-()-2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected				_	→ P563
Solenoid valve multi-axis type Network specification		MSEP-C-()-~-()-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points				
Positioner type	I	ACON-C-10I-①-2-0	Positioning is possible for up to 512	512 points			_	→ P631
Safety-Compliant Positioner Type		ACON-CG-10I-①-2-0	points				_	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-10I-①-2-0	Pulse train input type with differential line driver support	()			_	
Pulse Train Input Type (Open Collector)	è	ACON-PO-10I-①-2-0	Pulse train input type with open collector support	- (—)			_	
Serial Communication Type		ACON-SE-10I-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		ASEL-CS-1-10I-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P6