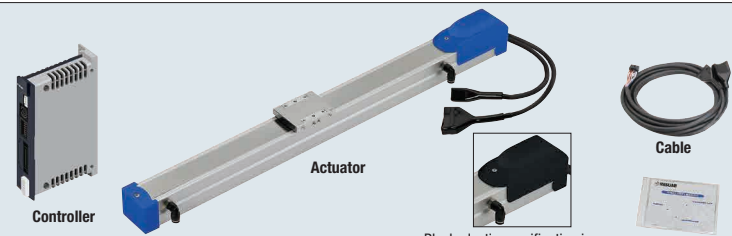


# RS1C

## Slider Type Actuator (2–6 kg Max.) / Clean Room Version



**Features:** Standard equipped with Vacuum Air Joint and Low Particulate Grease



**Components:** Actuators, Controller, Cable  
**Accessories**

Controller I/O Specifications		
NPN / PNP	CC-Link	DeviceNet
Instruction Manual (CD-ROM), Power Connector, Dummy Connector		
—	CC-Link Connector	DeviceNet Connector

Actuator Material / Surface Treatment			
Components	Guide Rail	Slider	Side Covers
Material	Steel	Aluminum	Aluminum
Surface Treatment	—	—	Anodize

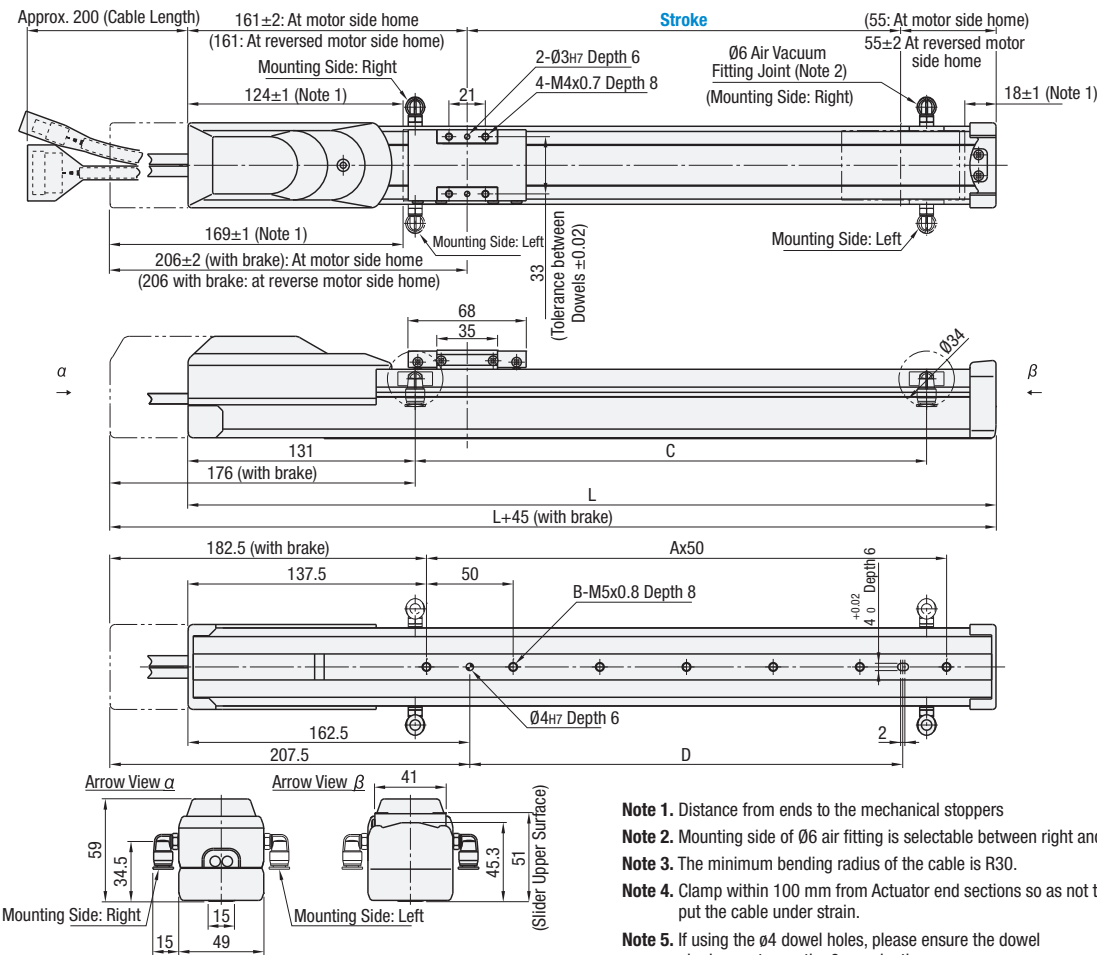
General Specifications			
Ball Screws	Motor	Position Detector	Service Ambient Temperature / Humidity
Ø8 (C10 Rolled)	Stepping	Resolver (Incremental)	0–40°C, 35–85% RH (No condensation)

RoHS10 Controller Specification P510 Cycle Time Graph P514

**Standard Specifications** Terminology P513

Type	Lead (mm)	Positioning Repeatability (mm)	Maximum Load Capacity (kg)	Maximum Push Force (N)	Stroke (mm)	Maximum Velocity (mm/sec)	Rated Running Life	Controller Input Power Supply	Maximum Positioning Points	Cleanroom Class (Note)	Vacuum (L/min)
RS1C	02	±0.02	Horizontal	150	50–400 (50 Pitch)	100	10,000 km or More	DC24V ±10%	255 Points	CLASS10 Based on 0.1 µm per 1cf	90
	06		Vertical	90		300					
	12		Horizontal	45		600					

Note: For 90 L/min vacuum, Ø6 vacuum air couplers installed side is selectable; right or left.



- Note 1.** Distance from ends to the mechanical stoppers
- Note 2.** Mounting side of Ø6 air fitting is selectable between right and left.
- Note 3.** The minimum bending radius of the cable is R30.
- Note 4.** Clamp within 100 mm from Actuator end sections so as not to put the cable under strain.
- Note 5.** If using the Ø4 dowel holes, please ensure the dowel pin does not pass the 6 mm depth.

### Dimensions / Mass

Type	Stroke (mm)	50	100	150	200	250	300	350	400
RS1C	L	266	316	366	416	466	516	566	616
	A	2	3	4	5	6	7	8	9
	B	3	4	5	6	7	8	9	10
	C	95	145	195	245	295	345	395	445
	D	50	100	150	200	250	300	350	400
	Mass (kg)	1.5	1.7	1.8	1.9	2.0	2.1	2.3	2.4

⊙ The mass of "with brake" type is 0.2 kg heavier.

# RS1C

## Slider Type Actuator (2–6 kg Max.) / Clean Room Version, *continued*

CE Compliant

⊙ See notes on CE Marking P513

Type	Part Number		Selections				
	Lead (mm)	Brake (⊙1)	Coupler Install Side	Controller	I/O Module	Cable Length (m)	Stroke (mm)
RS1C	02	Without: Blank With: B	Right: R Left: L	C1 DC24V±10%	NPN: N PNP: P CC-Link: C DeviceNet: D	1 3 5 10 Flexible Cable	50–400 50 mm Increment
	06						
	12						

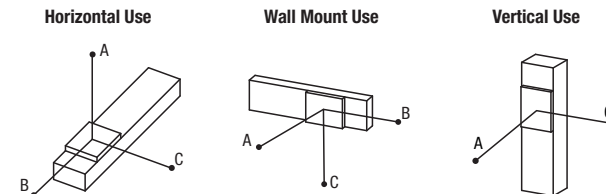
⊙1) Choose "with brake" type for use in vertical applications.

**Part Number Example** RS1C02B - R - C1 - N - 3 - 400

### Note

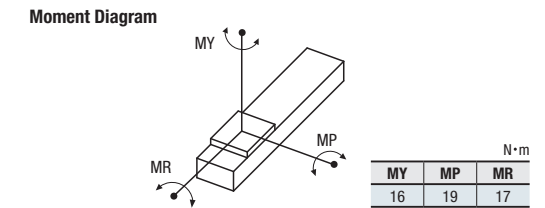
A power interruption circuit is not installed in this controller. Please be sure to build an external power interruption circuit and form an emergency stop circuit. Circuit Examples P511.

### Allowable Overhang Load



Lead	Mass	mm			Lead	Mass	mm			Lead	Mass	mm	
		A	B	C			A	B	C			A	C
02	6 kg	863	40	60	02	6 kg	39	26	789	02	4 kg	53	53
	4 kg	869	61	92		4 kg	72	48	829		2 kg	118	118
	4 kg	567	56	84		4 kg	63	43	507		2 kg	107	107
06	3 kg	556	76	112	06	3 kg	92	62	516	06	1 kg	223	223
	2 kg	687	116	169		2 kg	149	102	656		1 kg	204	204
	2 kg	667	107	152		2 kg	133	93	611		0.5 kg	407	408
12	1 kg	807	218	292	12	1 kg	274	204	776				

### Allowable Static Moment



**Part Number Alterations** RS1C02B - R - C1 - N - 3 - 400 - E-H

Alterations	Change of Home Position	Handy Terminal	Handy Terminal with Deadman's Switch	Support Software with USB Communication Cable	Support Software with RS232C Communication Cable	I/O Cable	Actuator Instruction Manual	Controller Instruction Manual	Main Body Plastic Color Alterations
Code	E	H	D	S	R	T	MJ / ME	KJ / KE	BC
Spec.	The home position is relocated to the opposite side of the motor.	Handy Terminal is included. Specifications P.512	Handy Terminal with Deadman's Switch is included. Specifications P.512	Support Software USB with communication cable is included. Specifications P.512	Support Software with RS232C communication cable is included. Specifications P.512	I/O cable is included. Required for NPN / PNP configurations. Specifications P.512	For Actuator main structures. Instruction Manual is included. MJ: Japanese Language ME: English Language	For Controllers Instruction Manual is included. KJ: Japanese Language KE: English Language	Change the Actuator plastic parts color to black.

⊙ See P.512 for Optional Items.