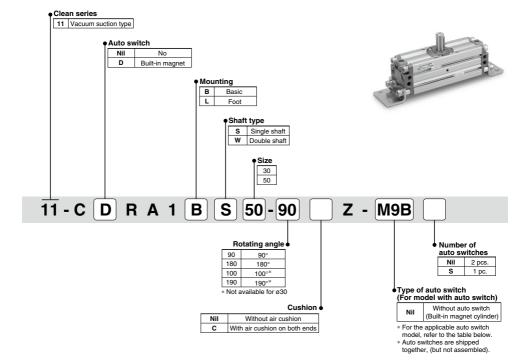
Series 11-CRA1-Z Rack & Pinion Type Rotary Actuator Size: 30, 50

How to Order





Specifications

Size		30	50	
Fluid		Air (Non-lube)		
Maximum operating pressure		1 MPa		
Minimum operating pressure		0.1 MPa		
Ambient and fluid temperature		0 to 60°C		
Cushion	With air cushion	Without air cushion, With air cushio		
Allowable kinetic energy (J)	Without air cushion	0.01	0.05	
	With air cushion	0.12	0.98	
Cushion angle		35°		
Adjustable range of rotation time		0.2 to 1 s/90°	0.2 to 2 s/90°	
Port size		M5 x 0.8	Rc1/8	
Mounting		Basic, Flange		
Grease		Fluorine grease		
Cleanliness class (ISO class)		Class 4		

^{*} The maximum absorbed energy under proper adjustment of the cushion valve

Suction Flow Rate of Vacuum Suction Type (Reference values)

Size	Suction flow rate L/min (ANR)
30	1
50	5

Auto Switch Specifications (Refer to the WEB catalog for detailed specifications and auto switches not in the following table.)

Туј	ре	Auto switch part no.	Load voltage	Load current range	Indicator light	Application
Solid state	2-wire	D-M9B	24 VDC (10 to 28 VDC)	2.5 to 40 mA	0	24 VDC relay, PLC
auto switch	3-wire	D-M9N, D-M9P	28 VDC or less	40 mA or less	0	IC circuit, Relay, PLC
Reed aut	o switch	D-A93	24 VDC, 100 VAC	5 to 40 mA, 5 to 20 mA	0	Relay, PLC

Refer to page 920 for the applicable auto switch list.

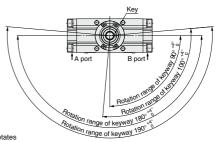
905



11-CDRA1□□30

Key Standard Hamistipe along the standard transport of the standard transport transpor

11-CDRA1□□50

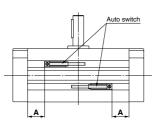


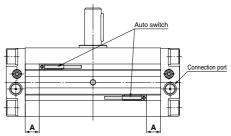
* The shaft rotates clockwise when the pressure is applied from the A port while it rotates counterclockwise when the pressure is applied from the B port.

Auto Switch Proper Mounting Position (Detection at Rotation End)

11-CDRA1□□30







Note) For size 30, the auto switch cannot be mounted on the connection port side since there is a vacuum port.

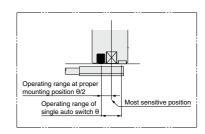
Size Rotatir		D-M9□/M9□V D-M9□W/M9□WV D-M9□A/M9□AV		D-A9□/A9□V	
	angle	Proper mounting position A (mm)	Operating range θ (°)	Proper mounting position A (mm)	Operating range θ (°)
30	90	13	42°	9	81°
30	180	22	42	18	01
50	90	22.5	30°	18.5	44°
50	180	39	30'	35	44-

Values which include hysteresis are for guideline purposes only, they are not a guarantee (assuming approximately ±30% dispersion) and may change substantially depending on the ambient environment. Adjust the auto switch after confirming the operating conditions in the actual setting.

Switch Spacer Part No.

Size	30	50
Switch spacer part no.	BMY3-016	

- * The above part number includes one switch spacer.
- * Two switch spacers are included with the product with built-in magnet.



S Air Cylinders

Directional Control Valves

Rotary Actu

Air Preparation Air Grippers Equipment

Modular F. R.

Pressure Control Equipment

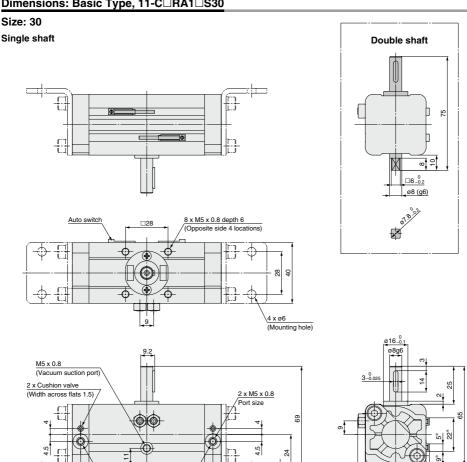
Fittings & Tubing

Flow Control
Equipment

Pressure Switches/ Pressure Sensors



Dimensions: Basic Type, 11-C□RA1□S30



5.5

B port

5.5

Note) A parallel key is included in the same package, (but not assembled).

A port

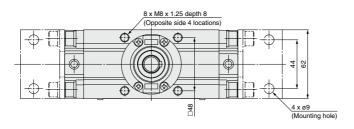
98 (117): With auto switch 84 (103): Without auto switch 138 (157): With auto switch 124 (143): Without auto switch 158 (177): With auto switch 144 (163): Without auto switch □40

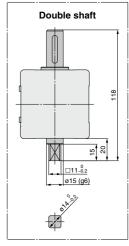
2.2*

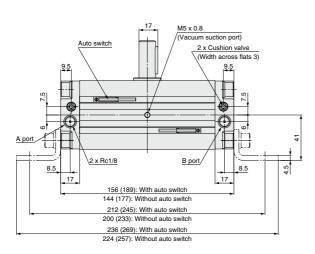
[•] The dimensions above show pressurization to B port.

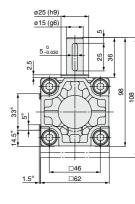
[•] Drawing shows the auto switch is mounted. (Dimensions with an asterisk mark (*) are not required for actuators without the auto switch.)

^{* ()} are the dimensions for rotation of 180°.









- The dimensions above show pressurization to B port.
- Drawing shows the auto switch mounted on the port side. (Dimensions with an asterisk mark (*) are not required for actuators without the auto switch.)
- * () are the dimensions for rotation of 180° and 190°.

Note) A parallel key is included in the same package, (but not assembled).

Directional Control Valves

Air Cylinders

Air Grippers

Air Preparation Equipment

Modular F. Pressure Control Equipment

Fittings & Tubing

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Pressure Switches/ Pressure Sensors

