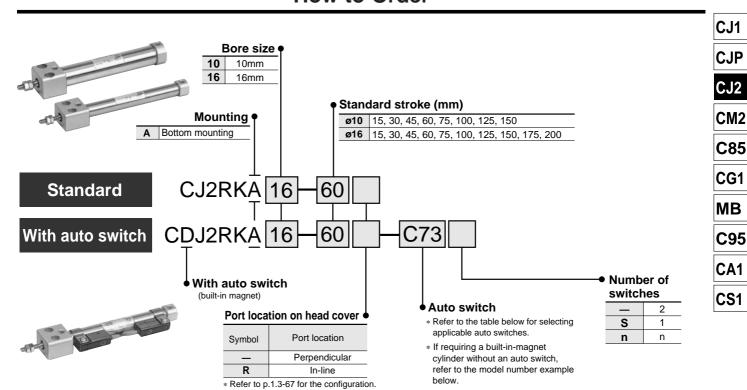
Non-rotating Rod/Direct Mount: Double Acting Single Rod

Series CJ2RK



ø10, ø16

How to Order



Applicable Auto Switches/Refer to p.5.3-2 for further information on auto switch.

			ior			Load vol	tage	Auto	switch m	odel	Lea	d wi	re* (ı	n)		pplicable load			
Style	Special function	Electrical entry	Indicator	Wiring (Output)		DC	AC		R	ail	0.5	3		None					
		Cituy	Ĕ	\ ' '			Α0	Band	Perp.	In-line	(—)	(L)	(Z)	(N)					
				3 wire (NPN)	—	5V	_	C76	_	A76H	•	•	-	-	IC	—			
Reed switch		Grommet	Yes		_		200V	_	A72	A72H	•	•	_	_					
<u>×</u>	l			2 wire		12V	100V	C73	A73	A73H	•	•	•	-					
<u>8</u>			No			5V, 12V	≤100V	C80	A80	A80H	•	•	_	_	IC	Relay			
æ		Connector	Yes		24V	12V	_	C73C	A73C		•	•	•	•	_	PLC			
			No	4		5V, 12V	≤24V	C80C	A80C		•	•	•	•	IC				
	Diagnostic indication (2 color)	Grommet	Yes			_	_		A79W		•	•	_	-					
				3 wire (NPN)		5V, 12V	_	H7A1	F7NV	F79	•	•	0		IC				
		Grommet		3 wire (PNP)		01, 121		H7A2	F7PV	F7P	•	•	0	-		-			
ي				2 wire		12V	_	H7B	F7BV	J79	•	•	0		_				
ફ		Connector				12 0		H7C	J79C		•	•	•	•					
S	Diagnostic indication			3 wire (NPN)		5V, 12V	/ 121	H7NW	F7NWV	F79W	•	•	0		IC	Datas			
ate	(2 color)		Yes	3 wire (PNP)	247	01, 121		H7PW	_	F7PW	•	•	0	-	IC	PLC			
Š						40)/		H7BW	H7BWV	J79W	•	•	0	_					
Solid state switch	Water resistant (2 color) Gromm	Grommet		2 wire		12V	_	Н7ВА	_	F7BA	_	•	0	-	_				
	With timer			3 wire (NPN)		5V 40V			_	F7NT		•	0		10				
	With diagnostic output (2 color)			4 wire	1	5V, 12V		H7NF		F79F	•	•	0	_	IC				
	Latch with diagnostic output (2 color)			(NPN)				H7LF		F7LF	•	•	0	_	_				

* Lead wire length 0.5m----- e.g.) C73C 5m-----Z e.g.) C73CZ C73CN 3m..... C73CL None----N

Part No. of Cylinder with Built-in Magnet

Symbol "-A" (rail mounting) or "-B" (band mounting) should be suffixed to the part No. of the cylinder with auto switch.

Ev	Rail mounting	CDJ2RKA16-60-A					
EX.	Band mounting	CDJ2RKA10-45-B					

^{*} Solid state switches marked with" () " are manufactured upon receipt of order.

Series CJ2RK

Non-rotating rod with hexagon rod.

High non-rotating accuracy ø10: ±1.5°, ø16: ±1° Auto switch can be mounted to detect the cylinder stroke position.



JIS symbol

Double acting/Single rod



⚠ Precautions

Refer to p.0-39 to 0-46 before in handling.

Specifications

Action Double acting/Single rod Fluid Air Proof pressure 1.05MPa											
Action		0 0									
Fluid											
Proof pressure		1.05MPa									
Max. operating pressure		0.7MPa									
Min. operating pressure		0.06MPa									
Ambient and fluid temperat	ure	Without auto switch: -10°C to 70°C, With auto switch: -10°C to 60°C*									
Cushion		Rubber bumper Non-lube JIS class 2 +1.0 0									
Lubrication											
Thread tolerance											
Stroke tolerance											
Non-rotating accuracy		ø10: ±1.5°, ø16: ±1°									
Mounting		Bottom mounting									
Piston speed		50 to 750mm/s									
Alleweble biochie enemy	ø10	0.035J									
Allowable kinetic energy	ø16	0.090J									

^{*} No freezing

Standard Stroke

(mm)

Bore size	Standard stroke
10	15, 30, 45, 60, 75, 100, 125, 150
16	15, 30, 45, 60, 75, 100, 125, 150, 175, 200

Minimum Strokes for Auto Switch Mounting

•Refer to p.1.3-57.

Accessory/Refer to p.1.3-12 for details.

Standard	Rod end nut
Option	Single knuckle joint, Double knuckle joint*

^{*} Double knuckle joint is packaged with pins and rings.

Non-rotating Rod/Direct Mount: Double Acting Single Rod Series CJ2RK

Weight

		(9)
Bore size (mm)	10	16
Basic weight*	36	71.5
Additional weight for each 15 of stroke	4	6.5

* This basic weight includes weight of rod end nut.

Calculation example: CJ2RKA10-45

36+4/15 X 45=48g

Port Location on Head Cover

Either perpendicular to the cylinder axis or in-line with the cylinder axis is available for basic.





ine Perpend

Auto Switch Mounting Bracket Part No. (Band mounting)

Bore size (mm)	Bracket part No.	Note					
10	BJ2-010	Common use to all of					
16	BJ2-016	D-C7, C8 and D-H7					

Note)

Note) A set of stainless steel mounting screws "BBA4" is attached. (A switch mounting band is not attached. Please order the band separately.) "BBA4" screws are used for D-C7/C8/H7.

"D-H7BAL" switch is set on the cylinder with the screws above when shipped.

Also, when a switch only is shipped, "BBA4" screws are attached.

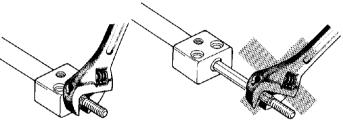
Precautions on handling

<Mounting>

• Avoid using the air cylinder in such a way that rotational torque would be applied to the piston rod because this will deform the non-rotating guide, thus affecting the non-rotating accuracy. Refer to the table below for the approximate values of the allowable range of rotational torque.

All 11 (ø10	ø16
Allowable rotational torque (Nm)	0.02	0.04

- Operate the cylinder in such a way that the load to the piston rod is always applied in the axial direction.
- To screw a bracket onto the threaded portion at the tip of the piston rod, make sure to retract the piston rod entirely, and place a wrench over the flat portion of the rod that protrudes. To tighten, take precautions to prevent the tightening torque from being applied to the non-rotating guide.



CJ1

CJP

CJ2

CM2

C85

CG1

MB

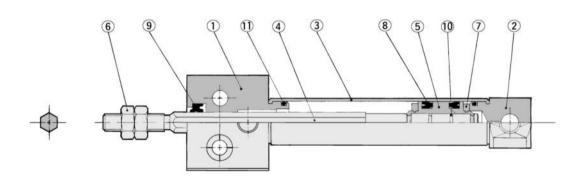
C95

CA1

CS1

Construction (The cylinder cannot be disassembled.)





Component Parts

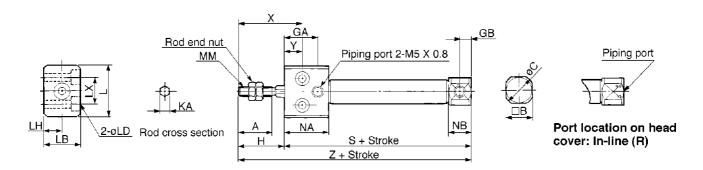
	•		
No.	Description	Material	Note
1	Rod cover	Aluminum alloy	White anodized
2	Head cover	Aluminum alloy	White anodized
3	Cylinder tube	Stainless steel	
4	Piston rod	Stainless steel	
(5)	Piston	Brass	
6	Rod end nut	Rolled steel	Nickel plated

No.	Description	Material	Note				
7	Bumper	Urethane					
8	Piston seal	NBR					
9	Rod seal	NBR					
10	Piston gasket	NBR					
11)	Tube gasket	NBR					

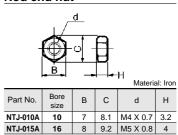
Series CJ2RK



CJ2RKA Bore size - Stroke Port location on head cover







(mm)

Bore	Α	В	С	GA	GB	Η	KA	L	LB	LD	LH	LX	MM	NA	NB	Χ	Υ	S	Z
10	15	12	14	16	5	20	4.2	23	16	ø3.5, ø6.5Depth of counter bore: 4	8	12	M4 X 0.7	20.5	9.5	28	8	54	74
16	15	18	20	16	5	20	5.2	26	20	ø4.5, ø8Depth of counter bore: 5	10	16	M5 X 0.8	20.5	9.5	28	8	55	75

Bottom mounting CJ2RKA10 SCJ210, #10

CJ2RKA16 SCJ216, #10 The data shows auto switch styles. Please delete the unnecessary parts.