

Standard: Double Acting Single Rod

Series CJ2

ø6, ø10, ø16

How to Order

Bore size

6	6mm
10	10mm
16	16mm

Standard stroke (mm)

ø 6	15, 30, 45, 60
ø10	15, 30, 45, 60, 75, 100, 125, 150
ø16	15, 30, 45, 60, 75, 100, 125, 150, 175, 200

Mounting

B	Basic
L	Axial foot
F	Front flange
D	Double clevis (Except for ø6)

Cushion

—	Rubber bumper
A	Air cushion (Except for ø6)

Standard

With auto switch

With auto switch (built-in magnet)

Port location on head cover

	ø6	ø10/ø16
—	—	Perpendicular 90°
R	In-line	In-line

* Refer to p.1-24 for the configuration.

Auto switch

* Refer to the table below for selecting applicable auto switches.

Number of switches

—	2
S	1
n	n

* If requiring a built-in magnet cylinder without an auto switch, refer to the model number example below.

Band mounting

Rail mounting

Applicable Auto Switches

Style	Special function	Electrical entry	Indicator	Wiring (Output)	Load voltage		Auto switch model**			Lead wire*				Applicable load	
					DC	AC	Band (ø6, ø10, ø16)	Rail (ø10, ø16)		0.5 (—)	3 (L)	5 (Z)	None (N)		
Reed switch		Grommet	Yes	3 wire (NPN)	—	5V	—	C76	—	A76H	●	●	—	IC	—
				—	—	200V	—	A72	A72H	●	●	—	—	—	—
				2 wire	12V	100V	C73	A73	A73H	●	●	●	—	—	—
				—	5V, 12V	≤100V	C80	A80	A80H	●	●	—	—	IC	—
		Connector	No	24V	12V	—	C73C	A73C	—	●	●	●	●	—	—
				5V, 12V	≤24V	—	C80C	A80C	—	●	●	●	●	IC	—
				—	—	—	A79W	—	—	●	●	—	—	—	—
				Diagnostic indication (2 colour)	—	—	—	A79W	—	●	●	—	—	—	—
Solid state switch		Grommet	Yes	3 wire (NPN)	5V, 12V	—	H7A1	F7NV	F79	●	●	○	—	IC	—
				3 wire (PNP)	—	—	H7A2	F7PV	F7P	●	●	○	—	—	—
				2 wire	12V	—	H7B	F7BV	J79	●	●	○	—	—	—
		Connector	No	—	—	—	H7C	J79C	—	●	●	●	●	—	—
				3 wire (NPN)	5V, 12V	—	H7NW	F7NWV	F79W	●	●	○	—	IC	—
				3 wire (PNP)	—	—	H7PW	—	F7PW	●	●	○	—	—	—
	Diagnostic indication (2 colour)	Grommet	Yes	2 wire	12V	—	H7BW	F9BWV	J79W	●	●	○	—	—	—
				—	—	—	H7BA	—	F7BA	—	●	○	—	—	—
				3 wire (NPN)	5V, 12V	—	—	—	F7NT	—	●	○	—	IC	—
				4 wire (NPN)	—	—	H7NF	—	F79F	●	●	○	—	—	—
				—	—	—	H7LF	—	F7LF	●	●	○	—	—	—
				—	—	—	—	—	—	—	—	—	—	—	—

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

* Solid state switches marked with "○" are manufactured upon receipt of order.

** "D-A79W" cannot be mounted on bore size ø10 cylinder with air cushion.

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.

Ex.	Rail mounting	CDJ2B10-45-A
	Band mounting	CDJ2B16-60-B

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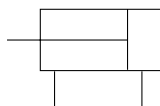
Specifications

Action	Double acting/Single rod	
Fluid	Air	
Proof pressure	1.05MPa	
Max. operating pressure	0.7MPa	
Min. operating pressure	ø6	0.12MPa
	ø10, ø16	0.06MPa
Ambient and fluid temperature	Without auto switch: -10°C to 70°C, With auto switch: -10°C to 60°C*	
Cushion	Rubber bumper/Air cushion	
Lubrication	Non-lube	
Thread tolerance	JIS class 2	
Stroke tolerance	+1.0 0	
Piston speed	50 to 750mm/s	
Allowable kinetic energy	ø6	0.012J
	ø10	0.035J
	ø16	0.090J

* No freezing

JIS symbol

Double acting/Single rod



Standard Stroke

(mm)

Bore size	Standard stroke
6	15, 30, 45, 60
10	15, 30, 45, 60, 75, 100, 125, 150
16	15, 30, 45, 60, 75, 100, 125, 150, 175, 200

⚠ Caution

Mounting

- During installation, secure the rod cover and tighten by applying an appropriate tightening force to the retaining nut or to the rod cover body. If the head cover is secured or the head cover body is tightened, the cover could rotate, leading to a deviation.
- Tighten the retaining screws to an appropriate tightening torque within the range given below.
ø6: 2.1 to 2.5Nm, ø10: 5.9 to 6.4Nm, ø16: 10.8 to 11.8Nm
- To remove and install the snap ring for the knuckle pin or the clevis pin, use an appropriate pair of pliers (tool for installing a C type snap ring). In particular, use a pair of ultra-mini pliers such as the Super Tool CSM-07A for removing and installing the snap rings on the ø10 cylinder.
- In the case of auto switch rail mounting style, do not remove the rail that is mounted. Because the retaining screws extend into the cylinder, this could lead to an air leak.

Minimum Strokes for Auto Switch Mounting

Mounting	Auto switch model	Number of switches	Min. stroke (mm)
Band mounting (ø6, ø10, ø16)	D-C7 D-C8	2 (same surface)	50
		2 (different surfaces)	15
		1	10
	D-H7□ D-H7□W D-H7BAL D-H7NF	2 (same surface)	60
		2 (different surfaces)	15
		1	10
	D-C73C D-C80C D-H7C	2 (same surface)	65
		2 (different surfaces)	15
		1	10
	D-H7LF	2 (same surface)	65
		2 (different surfaces)	25
		1	15
Rail mounting (ø10, ø16)	D-A7/A8 D-A7□H/A80H D-A73C/A80C	2	10
		1	5
		1	5
	D-F7 D-J79 D-F7□V D-J79C	2	5
		1	5
		1	5
	D-A79W D-F7□W D-J79W D-F7BAL D-F7□WV D-F79F	2	15
		1	10
		2	15
		1	15