Built-in Speed Controller: Double Acting Single Rod

Series CJ2Z

ø10, ø16

How to Order

Bore size

10	10mm
16	16mm

Mounting

B	Basic
L	Axial foot
F	Front flange
D	Double clevis

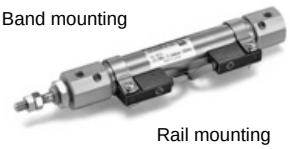
Standard stroke (mm)

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

Standard CJ2Z [L] [16] — [60] [ ]

With auto switch CDJ2Z [L] [16] — [60] [ ] — [C73] [ ]

Band mounting



Rail mounting

With auto switch
(Built-in magnet)

Port location on head cover

Symbol	Port location
—	Perpendicular
R	In-line

∗ Refer to p.1.3-43 for the configuration.

Auto switch

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

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

Number of switches

—	2
S	1
n	n

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

Style	Special function	Electrical entry	Indicator	Wiring (Output)	Load voltage DC	Load voltage	Load voltage AC	Auto switch model** Band	Rail Perp.	Rail In-line	Lead wire* (m) 0.5 (—)	3 (L)	5 (Z)	None (N)	Applicable load	
Reed switch	——	Grommet	Yes	3 wire (NPN)	—	5V	—	**C76**	—	**A76H**	●	●	—	—	IC	—
				2 wire	—	—	200V	—	**A72**	**A72H**	●	●	—	—	—	Relay PLC
					24V	12V	100V	**C73**	**A73**	**A73H**	●	●	●	—		
			No			5V, 12V	≤100V	**C80**	**A80**	**A80H**	●	●	—	—	IC	
		Connector	Yes			12V	—	**C73C**	**A73C**	—	●	●	●	●	—	
			No			5V, 12V	≤24V	**C80C**	**A80C**	—	●	●	●	●	IC	
	Diagnostic indication (2 color)	Grommet	Yes			—	—	—	**A79W**	—	●	●	—	—	—	
Solid state switch	——	Grommet	Yes	3 wire (NPN)	24V	5V, 12V	—	**H7A1**	**F7NV**	**F79**	●	●	○	—	IC	Relay PLC
				3 wire (PNP)				**H7A2**	**F7PV**	**F7P**	●	●	○	—		
				2 wire		12V	—	**H7B**	**F7BV**	**J79**	●	●	○	—	—	
		Connector						**H7C**	**J79C**	—	●	●	●	●		
	Diagnostic indication (2 color)	Grommet		3 wire (NPN)		5V, 12V	—	**H7NW**	**F7NWV**	**F79W**	●	●	○	—	IC	
				3 wire (PNP)				**H7PW**	—	**F7PW**	●	●	○	—		
				2 wire		12V		**H7BW**	**H7BWV**	**J79W**	●	●	○	—	—	
	Water resistant (2 color)							**H7BA**	—	**F7BA**	—	●	○	—		
	With timer			3 wire (NPN)		5V, 12V		—	—	**F7NT**	—	●	○	—	IC	
	With diagnostic output (2 color)			4 wire (NPN)				**H7NF**	—	**F79F**	●	●	○	—		
	Latch with diagnostic output (2 color)					—		**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	CDJ2ZB16-60-A
	Band mounting	CDJ2ZB10-45-B

Space saving air cylinder with built-in speed controller

Auto switch available

Specifications

Action		Double acting/Single rod
Fluid		Air
Proof pressure		1.05MPa
Max. operating pressure		0.7MPa
Min. operating pressure		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 (Standard equipment)
Lubrication		Non-lube
Thread tolerance		JIS class 2
Stroke tolerance		$^{+1.0}_{0}$
Speed controller		Built-in
Mounting		Basic, Axial foot, Front flange, Double clevis
Piston speed		50 to 750mm/s
Allowable kinetic energy	**ø10**	0.035J
	ø16	0.090J

∗ No freezing

Standard Stroke

(mm)

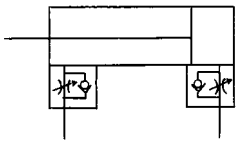
Bore size	Standard stroke
10	15, 30, 45, 60, 75, 100, 125, 150
16	15, 30, 45, 60, 75, 100, 125, 150, 175, 200

Minimum Strokes for Auto Switches Mounting

• Refer to p.1.3-3.

JIS symbol

Double acting/single rod



Port Location on Head Cover

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

In-line

Perpendicular

Mounting Accessories/Refer to p.1.3-12 for details.

Mounting		Basic	Axial foot	Front flange	Double clevis*
Standard	Mounting nut	●	●	●	—
	Rod end nut	●	●	●	●
	Clevis pin	—	—	—	●
Option	Single knuckle joint	●	●	●	●
	Double knuckle joint*	●	●	●	●
	T bracket	—	—	—	●

∗ Double clevis or double knuckle joint are packaged with pins and rings.

⚠ Precautions

Refer to p.1.3-3 before handling.