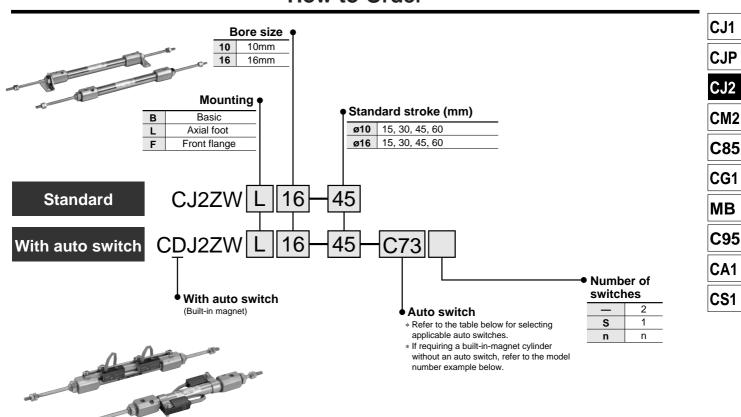
## **Built-in Speed Controller: Double Acting Double Rod**

# Series CJ2ZW

ø10, ø16

#### **How to Order**



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

			jo			Load vol	tage	Auto	switch mo	odel**	Lead wire* (m)			m)		
Style	Special function	Electrical entry	Indicator	(Output)	Wiring (Output)		DC AC		Rail		0.5	3		None	Applicable load	
		entry	<u>u</u>	(Output)		DC	AC	Band	Perp.	In-line	(—)	(L)	(Z)	(N)	10	load
				3 wire (NPN)	_	5V		C76	-	A76H	•	•	_		IC	_
Reed switch		Grommet	Yes		_	_	200V	_	A72	A72H	•	•	_	_	_	
Š						12V	100V	C73	A73	A73H	•	•	•	-		
Ď			No	2 wire		5V, 12V	≤100V	C80	A80	A80H	•	•	_	_	IC	Relay PLC
æ		Connector	Yes		24V	12V	_	C73C	A73C	_	•	•	•	•	_	
_		Connector	No			5V, 12V	≤24V	C80C	A80C	_	•	•	•	•	IC	
	Diagnostic indication (2 color)	Grommet	Yes				_	_	A79W	_	•	•	_	_	_	
				3 wire (NPN)	5V, 12V —	H7A1	F7NV	F79	•	•	0	_	IC	IC		
		Grommet		3 wire (PNP)	2 wire (PNP)  2 wire 12V  swire (NPN)	01, 121		H7A2	F7PV	F7P	•	•	0	_		1
ے				2 wire		12\/	H7B	F7BV	J79	•	•	0			_	
Ė		Connector		2 11110		12 4		H7C	J79C	_	•	•	•	•		_
state switch				3 wire (NPN)		5V, 12V		H7NW	F7NWV	F79W	•	•	0	_	IC	
ate	Diagnostic indication (2 color)		Yes	3 wire (PNP)	24V	JV, 12V		H7PW	_	F7PW	•	•	0		10	Relay PLC
st	(= ====,		163		270			H7BW	H7BWV	J79W	•	•	0	_		. 20
Solid	Water resistant (2 color)	Grommet		2 wire		12V	_	Н7ВА	_	F7BA	_	•	0	-	_	
	With timer			3 wire (NPN)		7 !	_	_	F7NT	_	•	0	-	IC		
	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

e.g.) C73C C73CL

5m-----Z e.g.) C73CZ

#### 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	CDJ2ZWB16-60-A
LA.	Band mounting	CDJ2ZWB10-45-B

<sup>\*</sup> Solid state switches marked with"  $\bigcirc$  " are manufactured upon receipt of order.

<sup>\*\* &</sup>quot;D-A79W" cannot be mounted on bore size Ø10 cylinder with air cushion.

### Series CJ2ZW

# Space saving air cylinder with built-in speed controller

#### **Specifications**

Action		Double acting/Double rod			
Fluid		Air			
Proof pressure		1.05MPa			
Max. operating pressure		0.7MPa			
Min. operating pressure		0.1MPa			
Ambient and fluid temperat	ure	Without auto switch: -10°C to 70°C, With auto switch: -10°C to 60°C*			
Cushion		Rubber bumper			
Lubrication		Non-lube			
Thread tolerance		JIS class 2			
Stroke tolerance		+1.0 0			
Speed controller		Built-in			
Mounting		Basic, Axial foot, Front flange			
Piston speed		50 to 750mm/s			
All II I' d'	ø10	0.035J			
Allowable kinetic energy	ø16	0.090J			

<sup>\*</sup> No freezing

#### **Standard Stroke**

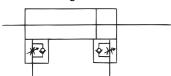
Bore size	Standard stroke				
10	15, 30, 45, 60				
16	15, 30, 45, 60				

#### Minimum Strokes for Auto Switch Mounting

•Refer to p.1.3-3.

#### JIS symbol

Double acting/Double rod



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

(mm)

	Mounting	Basic	Axial foot	Front flange
Standard	Mounting nut	•	•	•
Stanuaru	Rod end nut	•	•	•
Ontion	Single knuckle joint	•	•	•
Option	Double knuckle joint*	•	•	•

<sup>\*</sup> Double clevis or double knuckle joint are packaged with pins and rings.

### **A Precautions**

Refer to p.1.3-14 before handling.

#### Mounting Bracket Part No.

Bracket	Bore size (mm)						
Diacket	10	16					
Foot	CJ-L010B	CJ-L016B					
Flange	CJ-F010B	CJ-F016B					

#### **Auto Switch Mounting Bracket Part No. (Band mounting)**

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

# Built-in Speed Controller: Double Acting Double Rod Series CJ2ZW

(a)

#### Weight

110.g.n.		(9)					
Bore size (mm)		10	16				
Basic weight*		50	85				
Additional weight for	each 15 of stroke	6	9				
Mounting	Axial foot	16	40				
bracket weight	Front flange	5	15				

\* This basic weight includes weight of rod end nut. Calculation example:

CJ2ZWL10-45

- •Basic weight ----- 50 (Ø10)
- Additional weight ----- 6/15 stroke
- Cylinder stroke ----- 45 stroke
- •Mounting bracket weight ··········· 16 (Axial foot) 50+6/15 X 45+16=84g

#### **Copper Free**

20-CJ2WZ Mounting Bore size Stroke Port location on head cover

To eliminate influences of copper ions or halogen ions during CRT manufacturing processes, copper and fluorine materials are not used as component parts.



#### **Specifications**

•	
Action	Double acting/Double rod
Bore size (mm)	ø10, ø16
Max. operating pressure	0.7MPa
Min. operating pressure	0.1MPa
Cushion	Rubber bumper
Standard stroke (mm)	15, 30, 45, 60
Auto switch	Possible to be mounted
Mounting	Basic, Axial foot, Front flange

#### CJ1

CJP

CJ2

CM2

C85

CG1

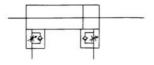
MB

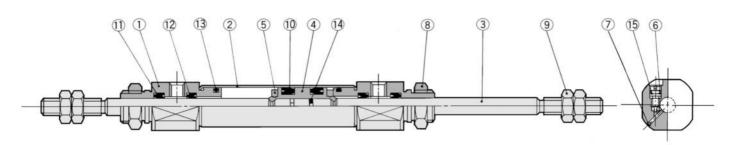
C95

CA1

CS1

#### Construction (The cylinder cannot be disassembled.)





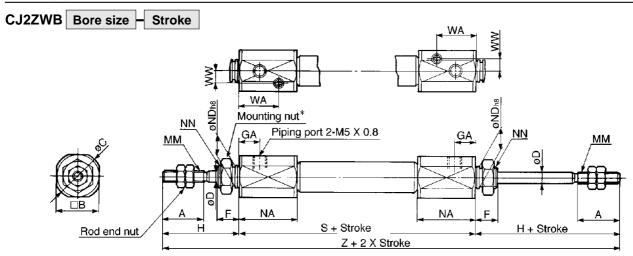
#### **Component Parts**

No.	Description	Material	Note
1	Rod cover	Aluminum alloy	White anodized
2	Cylinder tube	Stainless steel	
3	Piston rod	Stainless steel	
4	Piston	Brass	
(5)	Bumper	Urethane	
6	Speed controller needle	Stainless steel	
7	Steel ball	Bearing steel	
8	Mounting nut	Brass	Nickel plated

No.	Description	Material	Note
9	Rod end nut	Rolled steel	Nickel plated
10	Piston seal	NBR	
11)	Rod seal	NBR	
12	Check seal	NBR	
13	Tube gasket	NBR	
14)	Piston gasket	NBR	
15)	Needle seal	NBR	

### Series CJ2ZW

#### Basic (B)

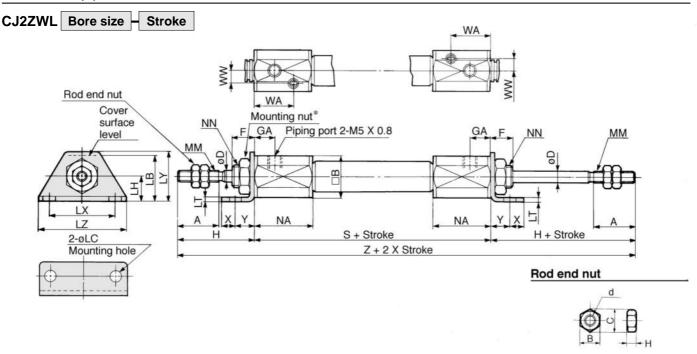


\* Refer to p.1.3-12 for details of the mounting nut.

(mm)

Bore	Α	В	С	D	F	GA	Н	MM	NA	NDh8	NN	S	WA	WW	Z
10	15	15	17	4	8	7.5	28	M4 X 0.7	21	8 _0.022	M8 X 1.0	66	14.5	4.5	122
16	15	18	20	5	8	7.5	28	M5 X 0.8	21	$10_{-0.022}^{0}$	M10 X 1.0	67	14.5	5.5	123

#### Axial Foot (L)



		Material: Iron						
Part No.	Bore	В	С	d	Н			
NTJ-010A	10	7	8.1	M4 X 0.7	3.2			
NTJ-015A	16	8	9.2	M5 X 0.8	4			

\* Refer to p.1.3-12 for details of the mounting nut.

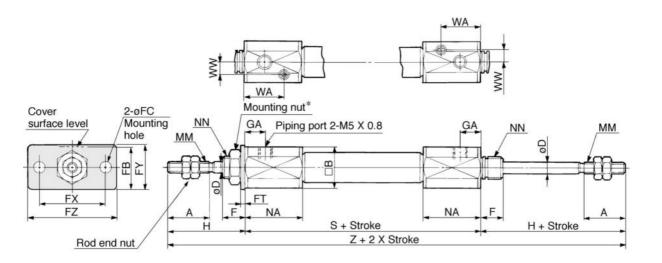
(mm)

																	()					
Bore	Α	В	D	F	LB	LC	LH	LT	LX	LY	LZ	GA	Н	MM	NA	NN	S	WA	WW	Х	Υ	Z
10	15	15	4	8	16.5	4.5	9	1.6	24	16.5	32	7.5	28	M4 X 0.7	21	M8 X 1.0	66	14.5	4.5	5	7	122
16	15	18	5	8	23	5.5	14	2.3	33	25	42	7.5	28	M5 X 0.8	21	M10 X 1.0	67	14.5	5.5	6	9	123

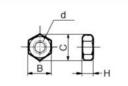
# Built-in Speed Controller: Double Acting Double Rod Series CJ2ZW

#### Front Flange (F)

#### CJ2ZWF Bore size - Stroke



Rod end nut



CJ1

CJP

CJ2

CM<sub>2</sub>

**C85** 

CG1

MB

C95

CA1

CS<sub>1</sub>

 Material: Iron

 Part No.
 Bore
 B
 C
 d
 H

 NTJ-010A
 10
 7
 8.1
 M4 X 0.7
 3.2

 NTJ-015A
 16
 8
 9.2
 M5 X 0.8
 4

 $\ast$  Refer to p.1.3-12 for details of the mounting nut.

																		(mm)				
Bore	Α	В	D	F	FB	FC	FT	FX	FY	FZ	GA	Н	MM	NA	NN	S	WA	WW	Z			
10	15	15	4	8	14.5	4.5	1.6	24	14	32	7.5	28	M4 X 0.7	21	M8 X 1.0	66	14.5	4.5	122			
16	15	18	5	8	19	5.5	2.3	33	20	42	7.5	28	M5 X 0.8	21	M10 X 1.0	67	14.5	5.5	123			