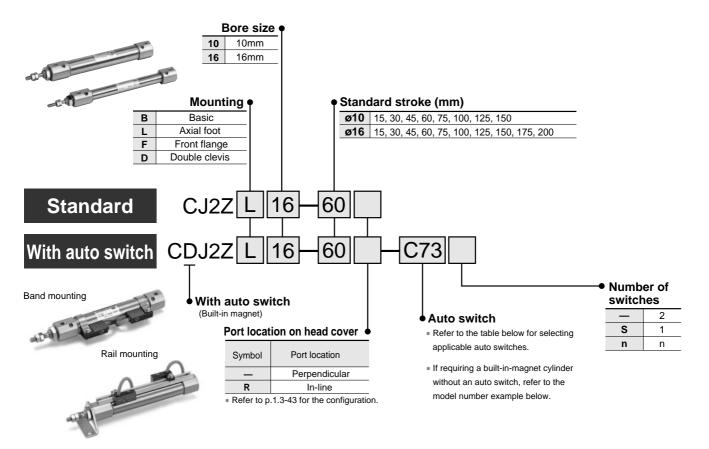
Built-in Speed Controller: Double Acting Single Rod

Series CJ2Z

ø10, ø16



How to Order



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

			ō	140		Load vol	tage	Auto	switch mo	odel**	Lea	d wii	re* (ı	n)				
Style	Special function	Electrical	ndicator	Wiring (Output)		DC	AC	Band	Rand Rail	0.5	3			lone in	licable ad			
		entry	프	(Output)		DC	AC	Danu	Perp.	In-line	(—)	(L)	(Z)	(N)	10	loau		
				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		
Re.		Connector	Yes	2 WIIE	24V	12V	_	C73C	A73C	_	•	•	•	•	_	PLC		
			No			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	_			
ڃ				2 wire	1 12	12V	12V —		H7B	F7BV	J79	•	•	0	_	_		
į		Connector		20				12 V	12 V	H7C	J79C	_	•	•	•	•		
Š	Diagnostic in disetion			3 wire (NPN)		5V, 12V		'		H7NW	F7NWV	F79W	•	•	0	_	IC	
ate	Diagnostic indication (2 color)		Yes	3 wire (PNP)	24V				'			H7PW		F7PW	•	•	0	_
st			163	0	_ , ,			H7BW	H7BWV	J79W	•	•	0	_				
Solid state switch	Water resistant (2 color)	Grommet		2 wire		12V	12V _	_	Н7ВА	_	F7BA	_	•	0	-	_		
	With timer			3 wire (NPN)				_	_	F7NT	_	•	0	_	IC			
	With diagnostic output (2 color)			4 wire		5V, 12V		H7NF		F79F	•	•	0	_	iC			
	Latch with diagnostic output (2 color)			(NPN)				H7LF	_	F7LF	•	•	0	_				

- * Lead wire length
- 0.5m----- e.g.) C73C 3m-----L
- C73CL
- 5m-----Z e.g.) C73CZ
- None----N
- * Solid state switches marked with" \bigcirc " 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.

Ev	Rail mounting	CDJ2ZB16-60-A
EX.	Band mounting	CDJ2ZB10-45-B

Built-in Speed Controller: Double Acting Single Rod Series CJ2Z

Space saving air cylinder with built-in speed controller

Auto switch available



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

^{*} No freezing

Standard Stroke

Allowable kinetic energy

Specifications

<u> Otarraara</u>	
Bore size	Standard stroke
10	15, 30, 45, 60, 75, 100, 125, 150
16	15, 30, 45, 60, 75, 100, 125, 150, 175, 200

0.035J

0.090J

Minimum Strokes for Auto Switches Mounting

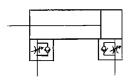
ø10

ø16

•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

⚠ Precautions

Refer to p.1.3-3 before handling.

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

	3					
	Mounting	Basic	Axial foot	Front flange	Double clevis*	
<u>5</u>	Mounting nut	•	•	•	_	
Standard	Rod end nut	•	•	•	•	
	Clevis pin	_	_	_	•	
	Single knuckle joint	•	•	•	•	
Option	Double knuckle joint*	•	•	•	•	
	T bracket	_	_	_	•	

^{*} Double clevis or double knuckle joint are packaged with pins and rings.

CJ1

CJP

CJ₂

CM₂

C85

CG₁

MB

C95

CA1

CS₁

Series CJ2Z

Weight

		(9)	
	10	16	
Basic weight*		40	73
Additional weight for each 15 of stroke		4	6.5
Mounting	Axial foot	8	20
bracket weight	Front flange	5	15
	Double clevis** (with pins)	4	10

- * This basic weight includes weights of mounting nut and rod end nut.
- ** The mounting nut is not attached to the double clevis style, so the mounting nut weight is already reduced.

Calculation example: CJ2ZL10-45

- •Basic weight: 40 (ø10)
- Additional weight: 4/15 stroke
- •Cylinder stroke: 45 stroke
- Mounting bracket weight: 8 (Axial foot) 44+4/15 X 45+8=60g

Mounting Bracket Part No.

Mounting bracket	Bore size (mm)					
	10	16				
	Foot	CJ-L010B	CJ-L016B			
	Flange	CJ-F010B	CJ-F016B			
	T bracket*	CJ-T010B	CJ-T016B			

* T bracket is used with double clevis (D).

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) 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. $\label{eq:BBA4}$

Copper Free

20-CJ2Z Mounting Bor	e size - Stroke	Port location on head cover

Copper free

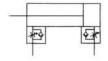
(a)

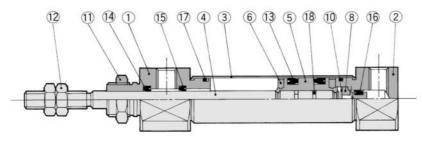
To eliminate influences of copper ions or halogen ions during CRT manufacturing processes, copper and fluorine materials are not used as component parts.

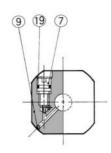


Specifications			
Action	Double acting/Single rod		
Bore size (mm)	ø10, ø16		
Max. operating pressure	0.7MPa		
Min. operating pressure	0.06MPa		
Cushion	Rubber bumper (standard equipment)		
Standard stroke (mm)	Same as the standard (Refer to p.1.3-43.)		
Auto switch	Possible to be mounted		
Mounting	Basic, Axial foot, Front flange, Double clevis		

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	Bumper	Urethane	
7	Speed controller needle	Stainless steel	
8	Check packing sleeve	Brass	
9	Steel ball	Bearing steel	
10	Retaining ring	Carbon tool steel	Black zinc chromated

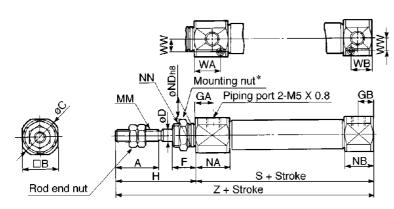
No.	Description	Material	Note
11)	Mounting nut	Brass	Nickel plated
12	Rod end nut	Rolled steel	Nickel plated
13	Piston seal	NBR	
14)	Rod seal	NBR	
15	Check seal A	NBR	
16	Check seal B	NBR	
17	Tube gasket	NBR	
18	Piston gasket	NBR	
19	Needle seal	NBR	

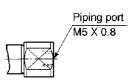
Built-in Speed Controller: Double Acting Single Rod Series CJ2Z





CJ2ZB Bore size Stroke Port location on head cover





CJ₁

CJP

CJ2

CM₂

C85

CG₁

MB

C95

CA1

CS₁

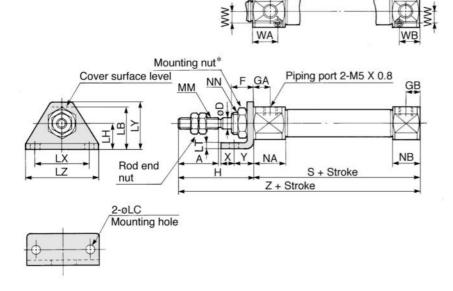
Port location on head cover: In-line (R)

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

(mm) NDh8 Bore D GB MM NB NNWA WB WW S Α В С GΑ Н NA Ζ $8_{-0.022}^{0}$ 10 15 15 17 4 8 7.5 6.5 28 M4 X 0.7 21 18 M8 X 1.0 14.5 13.5 4.5 63 91 16 15 18 20 5 8 7.5 6.5 28 M5 X 0.8 21 18 $10_{-0.022}^{0}$ M10 X 1.0 | 14.5 13.5 5.5 64 92

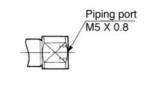
Axial Foot (L)

CJ2ZL Bore size Stroke Port location on head cover

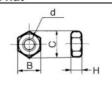


Port location on head cover: In-line (R)





Rod end nut



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 n 1.3-12 for details of the mounting nut

* Refer to p.1.3-12 for details or the mounting nut.															(mm)											
Bore	Α	В	С	D	F	GA	GB	Н	LB	LC	LH	LT	LX	LY	LZ	MM	NA	NB	NN	S	WA	WB	ww	Χ	Υ	Z
10	15	15	17	4	8	7.5	6.5	28	16.5	4.5	9	1.6	24	16.5	32	M4 X 0.7	21	18	M8 X 1.0	63	14.5	13.5	4.5	5	7	91
16	15	18	20	5	8	7.5	6.5	28	23	5.5	14	2.3	33	25	42	M5 X 0.8	21	18	M10 X 1.0	64	14.5	13.5	5.5	6	9	92



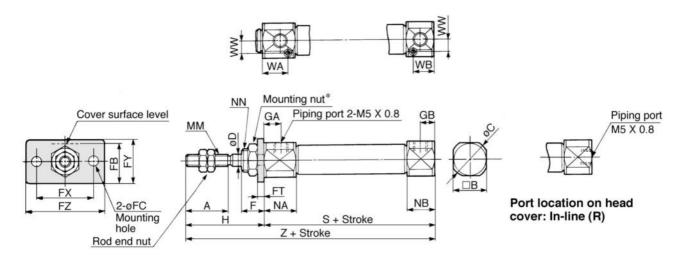
Basic Foot CJ2Z□10 SCJ210, #9 SCJ210, #9, #3 CJ2Z□16 SCJ216, #9 SCJ216, #9, #3

^{*} The data shows auto switch styles. Please delete the unnecessary parts.

Series CJ2Z



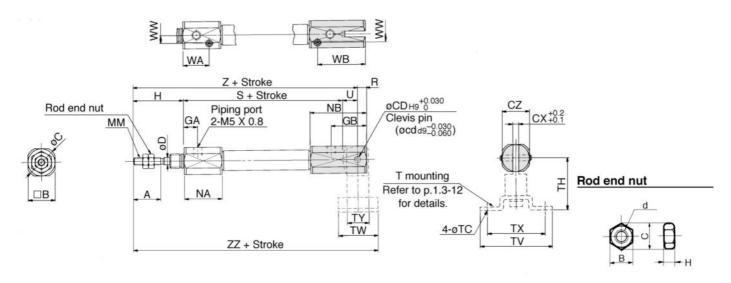




* Refer to p.1.3-12 for details of the mounting nut. (mm) Bore FT FX С D FC FY FZ GA GB MM NA NB NN Z В Н WA WB WW S 10 18 M8 X 1.0 14.5 13.5 15 15 17 4 8 14.5 4.5 1.6 24 14 32 7.5 6.5 28 M4 X 0.7 21 4.5 91 63 16 6.5 M5 X 0.8 18 M10 X 1.0 14.5 13.5 5.5 15 18 20 5 8 5.5 2.3 33 42 7.5 28 64 92 19 20

Double Clevis (D)

CJ2ZD Bore size - Stroke



Material: Iror												
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							

* Clevis pins and set rings are attached.

	* Clevis pins and set rings are attached.														Mate	Material: Iron						
	Bore	Α	В	С	CD(cd)	CX	CZ	D	GA	GB	Н	MM	NA	NB	R	S	U	WA	WB	WW	Z	ZZ
	10	15	15	17	3.3	3.2	15	4	7.5	19.5	28	M4 X 0.7	21	31	5	63	8	14.5	26.5	4.5	99	110
Ī	16	15	18	20	5	6.5	18	5	7.5	24.5	28	M5 X 0.8	21	36	8	64	10	14.5	31.5	5.5	102	116

i mounti	i mounting aimensions												
Bore	TC	TH	TV	TW	TX	TY							
10	4.5	29	40	22	32	12							
16	5.5	35	48	28	38	16							



Basic Flange
CJ2Z□10 SCJ210, #9
CJ2Z□16 SCJ216, #9
SCJ216, #9, #4

* The data shows auto switch equipped styles.
Please delete the unnecessary parts.

Double clevis Not available Not available