

Series ^{10-/11-}21-/22-**CJ2-Z** $\varnothing 10, \varnothing 16$ Air Cylinder

How to Order

RoHS



• Clean series

10	Relief type
11	Vacuum suction type

• Cushion

Nil	Rubber bumper (Standard)
A	Air cushion

• Built-in magnet

Nil	No
D	With auto switch (Built-in magnet)

* For a cylinder with "D", "-B" is suffixed to the end of the part number.

• Mounting

B	Basic
E	Double-side bossed
L	Single foot
M	Double foot
F	Rod flange
G	Head flange

* Foot/Flange brackets are shipped together with the product, but not assembled.

Model

10 - C D J 2 L 16 - 60 A R Z - M9BW - B*

21 - C D J 2 L 16 - 60 R Z - M9BW - B*

• Copper, fluorine and silicone-free + Low particle generation

21	Relief type
22	Vacuum suction type

• Head cover port location

Nil	Perpendicular to axis
R	Axial

* For double-side bossed, the product is perpendicular to the cylinder axis.

• Cylinder stroke (mm)

• Bore size (mm)

• Number of auto switches

Nil	2 pcs.
S	1 pc.
n	n pcs.

• Auto switch

Nil	Without auto switch
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* For applicable auto switches, refer to the Applicable Auto Switch.

Auto switch mounting type

Nil	None
B	Band mounting

* Only for With auto switch (Built-in magnet).
* Auto switch mounting method is band mounting only.

Model

	Model	Bore size (mm)	Port size	Lubrication	Action	Standard stroke (mm)	Auto switch mounting	Cushion	
								Rubber	Air
Vacuum suction type	10-/21-CJ2□10	10	M5 x 0.8	Non-lube	Double acting, Single rod	15, 30, 45, 60, 75, 100, 125, 150	Band mounting only	Standard	○
	10-/21-CJ2□16	16				15, 30, 45, 60, 75, 100, 125, 150, 175, 200			
	10-/22-CJ2□10	10				15, 30, 45, 60, 75, 100, 125, 150			
	10-/22-CJ2□16	16				15, 30, 45, 60, 75, 100, 125, 150, 175, 200			

* Air cushion is not available for 21-/22-.

Specifications

Bore size (mm)	
Item	10/16
Proof pressure	1 MPa
Maximum operating pressure	0.7 MPa
Minimum operating pressure	0.08 MPa (Air cushion 0.1 MPa)
Ambient and fluid temperature	Without auto switch: -10°C to 70°C With auto switch: -10°C to 60°C (No freezing)
Piston speed	50 to 400 mm/s
Stroke length tolerance	$\begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$
Mounting	Basic/Double-side bossed/Single foot/Double foot/Rod flange/Head flange
Grease	10-/11-: Fluorine grease, 21-/22-: Lithium soap based grease
Cleanliness class (ISO class)	10-/21-: Class 4, 11-/22-: Class 3

Suction Flow Rate of Vacuum Suction Type (Reference values)

Size	Suction flow rate L/min (ANR)
10/16	1

Mounting Bracket Part No.

Mounting bracket	Bore size (mm)	
	10	16
Foot	CJ-L016C	CJK-L016C
Flange	CJ-F016C	CJK-F016C

Series 10-/11- 21-/22-CJ2 ø6 Air Cylinder

How to Order

RoHS

● **Clean series**

10	Relief type
11	Vacuum suction type

10 - C D J 2 L 6 - 60 R - M9BW - C

21 - C D J 2 L 6 - 60 R - M9BW - C

● **Copper, fluorine and silicone-free + low particle generation**

21	Relief type
22	Vacuum suction type

● **Built-in magnet**

Nil	No
D	With auto switch (Built-in magnet)

● **Mounting**

B	Basic
L	Axial foot
F	Rod flange

* Foot/Flange brackets are shipped together with the product, but not assembled.

● **Cylinder stroke (mm)**

60

● **Head cover port location**

R	Axial
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● **Number of auto switches**

Nil	2 pcs.
S	1 pc.
n	n pcs.

● **Auto switch**

Nil	Without auto switch
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* For applicable auto switches, refer to the Applicable Auto Switch.
 * The minimum stroke for auto switch mounting, operating range and auto switch mounting brackets/part no. are the same as standard products.
 * Band mounting only.

● **Auto switch mounting bracket** ^{Note)}

Note) This symbol is indicated when the D-A9□ or M9□ type auto switch is specified. This mounting bracket does not apply to other auto switches (D-C7□ and H7□, etc.) (Nil)

Model

Model	Bore size (mm)	Port size	Lubrication	Action	Standard stroke (mm)	Auto switch mounting	Cushion Rubber
Relief type 10-/21-CJ2□6	6	M5 x 0.8	Non-lube	Double acting Single rod	15, 30, 45, 60	Band mounting only	Standard
Vacuum suction type 11-/22-CJ2□6	6				15, 30, 45, 60		

Specifications

Item	Bore size (mm)
	6
Proof pressure	1.05 MPa
Maximum operating pressure	0.7 MPa
Minimum operating pressure	0.14 MPa
Ambient and fluid temperature	Without auto switch: -10°C to 70°C, With auto switch: -10°C to 60°C (No freezing)
Piston speed	50 to 400 mm/s
Stroke length tolerance	+1.0 0
Mounting	Basic/Axial foot/Rod flange
Grease	10-/11-: Fluorine grease, 21-/22-: Lithium soap based grease
Cleanliness class (ISO class)	10-/21-: Class 4, 11-/22-: Class 3

Suction Flow Rate of Vacuum Suction Type (Reference values)

Size	Suction flow rate L/min (ANR)
6	1

Mounting Bracket Part No.

Mounting bracket	Bore size (mm)
	6
Foot	CJ-L010B
Flange	CJ-F010B



Directional Control Valves

Air Cylinders

Rotary Actuators

Air Grippers

Air Preparation Equipment

Modular F. R.

Pressure Control Equipment

Fittings & Tubing

Flow Control Equipment

Pressure Switches/Pressure Sensors

Applicable Auto Switch (Refer to the **WEB catalog** for detailed specifications and auto switches not in the following table.)

Type	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model	Lead wire length (m)				Applicable load	
				DC	AC		Band mounting	0.5 (Nil)	1 (M)	3 (L)		5 (Z)
Solid state auto switch	Grommet	Yes	2-wire	24 V	5 V 12 V	—	M9B	●	●	●	○	Relay, PLC
							M9BW	●	●	●	○	
Reed auto switch	Grommet	Yes	2-wire	24 V	12 V	100 V	A93	●	—	●	●	

Note 1) Lead wire length symbols: 0.5 m.....Nil

1 m.....M

3 m.....L

5 m.....Z

M9BW

M9BWM

M9BWL

M9BWZ

Note 2) Auto switches marked with "○" are produced upon receipt of order.

Note 3) PLC: Programmable Logic Controller

* Auto switch mounting type is band mounting only

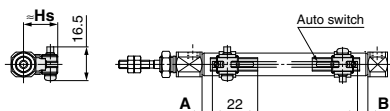
Refer to page 889 for the applicable auto switch list.

Auto Switch Proper Mounting Position (Detection at Stroke End)

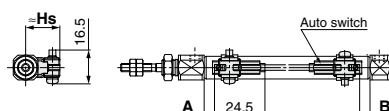
D-M9□

D-M9□W

D-A9□



A and B are the dimensions from the end of the head cover/rod cover to the end of the auto switch.



A and B are the dimensions from the end of the head cover/rod cover to the end of the auto switch.

Auto Switch Proper Mounting Position (mm)

Auto switch model	D-M9□ D-M9□W		D-A9□	
	A	B	A	B
Bore size 6	(4.5) 5.5	(4.5) 5.5	(0.5) 1.5	(0.5) 1.5
10	(5) 6	(5) 6	(1) 2	(1) 2
16	(5.5) 6.5	(5.5) 6.5	(1.5) 2.5	(1.5) 2.5

* The values in () are measured from the end of the auto switch mounting bracket.

Note) The above-mentioned value is a guide for auto switch mounting positions for stroke end detection. When actually mounting the auto switch, adjust the position after confirming the operating state of the auto switch.

Auto Switch Mounting Height (mm)

Auto switch model	D-M9□ D-M9□W D-A9□
	Hs
Bore size 6	15
10	17
16	20.5

Specific Product Precautions

Be sure to read this before handling.

Mounting

Caution

1. During installation, secure the rod cover and tighten by applying an appropriate tightening torque to the retaining nut or to the rod cover.

If the head cover is secured or the head cover is tightened, the cover could rotate, leading to a deviation.

2. Tighten the retaining screws with an appropriate tightening torque within the range given below.

ø6: 5.9 to 6.4 N·m

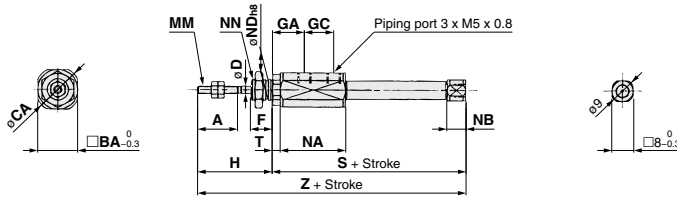
ø10: 10.8 to 11.8 N·m

ø16: 20.0 to 21.0 N·m

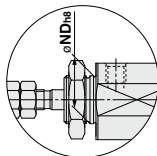
Basic (B): 10-**CJ2B**, 21-**CJ2B**

Rubber bumper

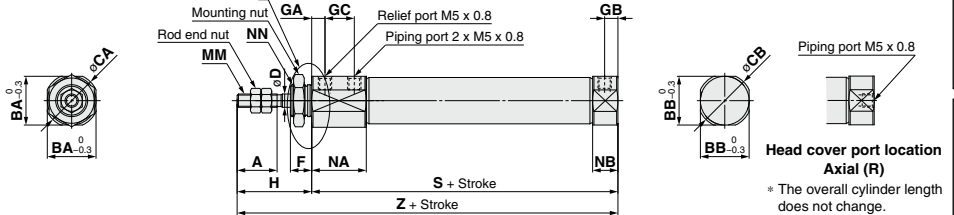
ø6



ø10, ø16



Section Y detail



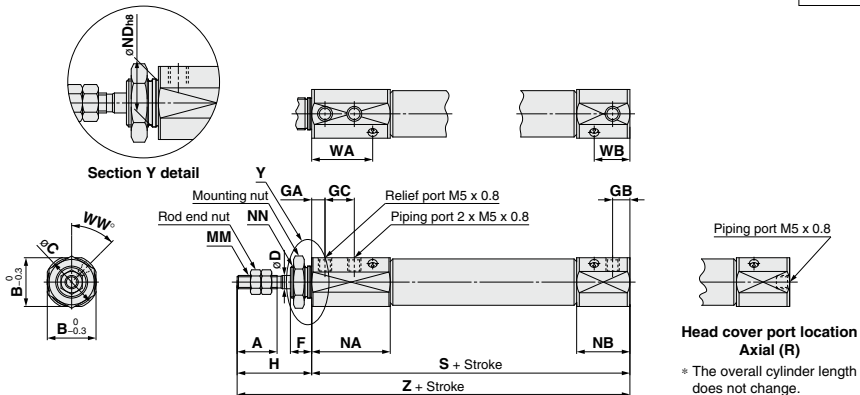
Head cover port location
Axial (R)

* The overall cylinder length does not change.

Bore size	A	BA	BB	CA	CB	D	F	GA	GB	GC	H	MM	NA	NB	ND _{h8}	NN	S	T	Z
6	15	15	—	17	—	3	8	12	—	11	28	M3 x 0.5	24.5	7	8 ^{3.022}	M8 x 1.0	57.5	3	85.5
10	15	15	12	17	14	4	8	5	5	11	28	M4 x 0.7	20.5	9.5	10 ^{3.022}	M10 x 1.0	54	—	82
16	15	18.3	18.3	20	20	5	8	5	5	11	28	M5 x 0.8	20.5	9.5	12 ^{3.027}	M12 x 1.0	55	—	83

With air cushion

Air cushion type is not available for 21-/22-CJ2.



Head cover port location
Axial (R)

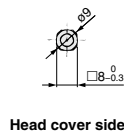
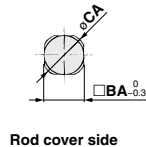
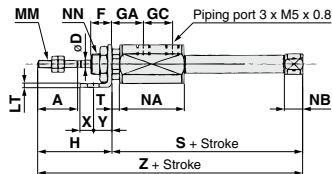
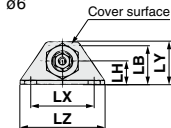
* The overall cylinder length does not change.

Bore size	A	B	C	D	F	GA	GB	GC	H	MM	NA	NB	ND _{h8}	NN	S	WA	WB	WW	Z
10	15	15	17	4	8	5	6.5	11	28	M4 x 0.7	29.5	20	10 ^{3.022}	M10 x 1.0	73.5	22.9	13.4	45	101.5
16	15	18.3	20	5	8	5	6.5	11	28	M5 x 0.8	29.5	20	12 ^{3.027}	M12 x 1.0	74.5	22.9	13.4	45	102.5

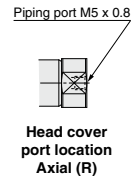
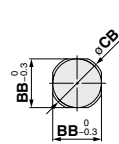
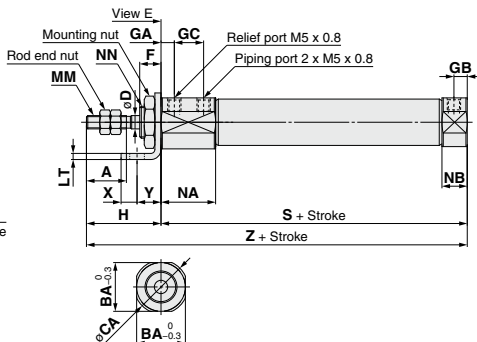
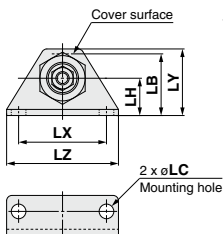
Single Foot (L): 10-/11-CJ2L, 21-/22-CJ2L

Rubber bumper

ø6



ø10, ø16



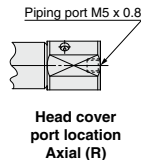
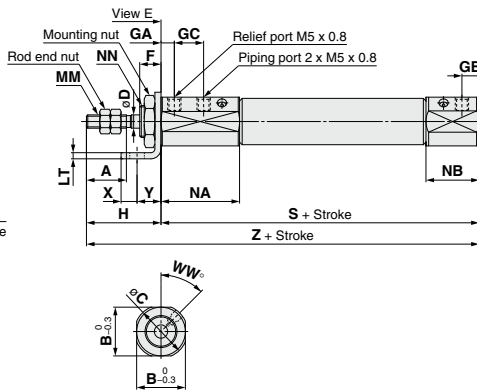
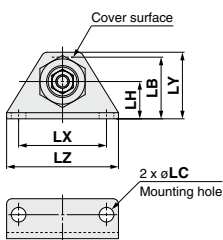
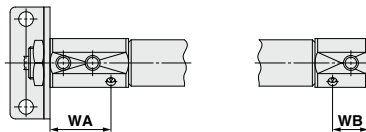
* The overall cylinder length does not change.

Drawing of view E

Bore size	A	BA	BB	CA	CB	D	F	GA	GB	GC	H	LB	LC	LH	LT	LX	LY	LZ	MM	NA	NB	NN	S	T	X	Y	Z
6	15	15	—	17	—	3	8	12	—	11	28	16.5	4.5	9	1.6	24	16.5	32	M3 x 0.5	24.5	7	M8 x 1.0	57.5	3	5	7	85.5
10	15	15	12	17	14	4	8	5	5	11	28	21.5	5.5	14	2.3	33	25	42	M4 x 0.7	20.5	9.5	M10 x 1.0	54	—	6	9	82
16	15	18.3	18.3	20	20	5	8	5	5	11	28	23	5.5	14	2.3	33	25	42	M5 x 0.8	20.5	9.5	M12 x 1.0	55	—	6	9	83

With air cushion

Air cushion type is not available for 21-/22-CJ2.

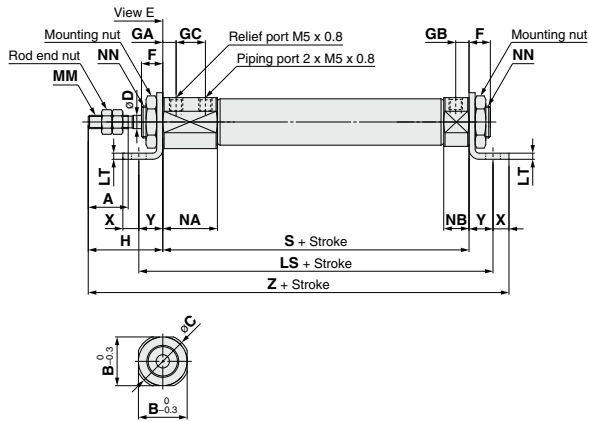
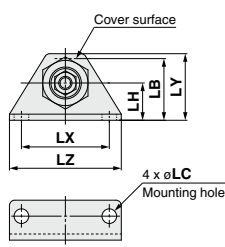


* The overall cylinder length does not change.

Drawing of view E

Bore size	A	B	C	D	F	GA	GB	GC	H	LB	LC	LH	LT	LX	LY	LZ	MM	NA	NB	NN	S	WA	WB	WW	X	Y	Z
10	15	15	17	4	8	5	6.5	11	28	21.5	5.5	14	2.3	33	25	42	M4 x 0.7	29.5	20	M10 x 1.0	73.5	22.9	13.4	45	6	9	101.5
16	15	18.3	20	5	8	5	6.5	11	28	23	5.5	14	2.3	33	25	42	M5 x 0.8	29.5	20	M12 x 1.0	74.5	22.9	13.4	45	6	9	102.5

Double Foot (M): 10-**CJ2M**, 21-**CJ2M**
Rubber bumper

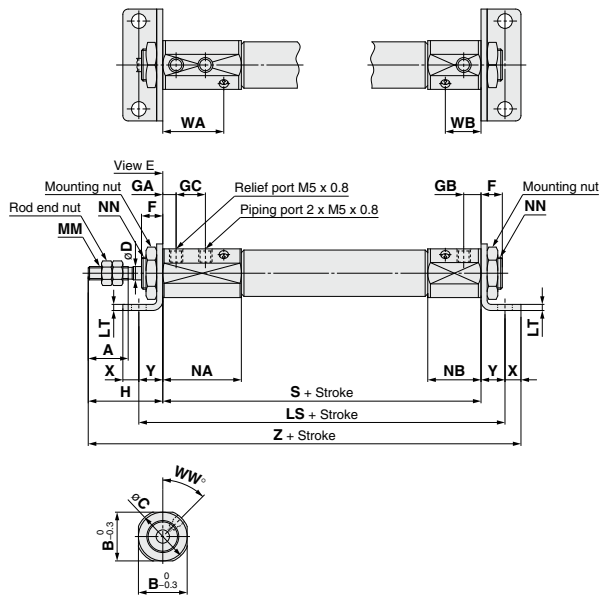
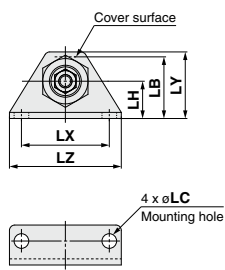


Drawing of view E

Bore size	A	B	C	D	F	GA	GB	GC	H	LB	LC	LH	LS	LT	LX	LY	LZ	MM	NA	NB	NN	S	X	Y	Z
10	15	15	17	4	8	5	5	11	28	21.5	5.5	14	72	2.3	33	25	42	M4 x 0.7	20.5	9.5	M10 x 1.0	54	6	9	97
16	15	18.3	20	5	8	5	5	11	28	23	5.5	14	73	2.3	33	25	42	M5 x 0.8	20.5	9.5	M12 x 1.0	55	6	9	98

With air cushion

Air cushion type is not available for 21-/22-CJ2.



Drawing of view E

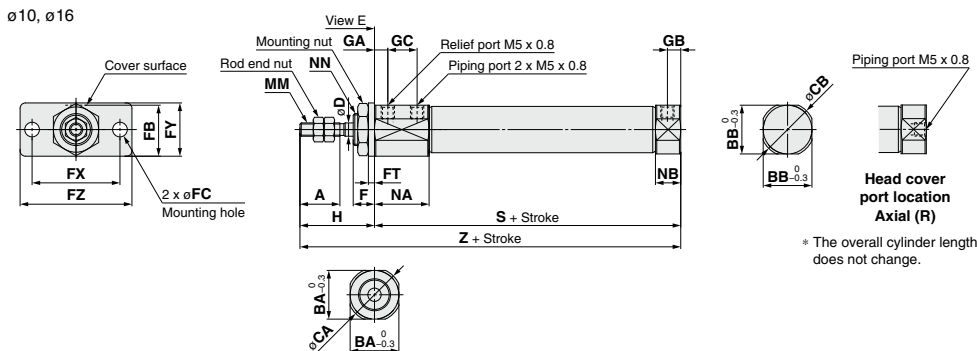
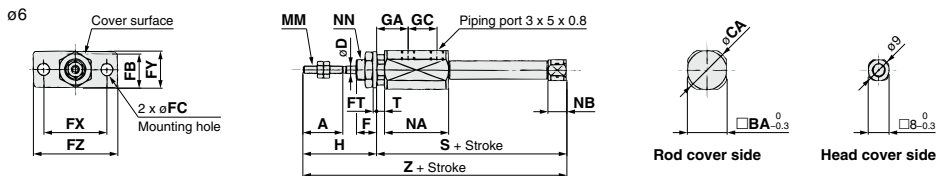
Bore size	A	B	C	D	F	GA	GB	GC	H	LB	LC	LH	LS	LT	LX	LY	LZ	MM	NA	NB	NN	WA	WB	WW	S	X	Y	Z
10	15	15	17	4	8	5	6.5	11	28	21.5	5.5	14	91.5	2.3	33	25	42	M4 x 0.7	29.5	20	M10 x 1.0	22.9	13.4	45	73.5	6	9	116.5
16	15	18.3	20	5	8	5	6.5	11	28	23	5.5	14	92.5	2.3	33	25	42	M5 x 0.8	29.5	20	M12 x 1.0	22.9	13.4	45	74.5	6	9	117.5



- Directional Control Valves
- Air Cylinders
- Rotary Actuators
- Air Grippers
- Air Preparation Equipment
- Modular F. R.
- Pressure Control Equipment
- Fittings & Tubing
- Flow Control Equipment
- Pressure Switches/Pressure Sensors

Rod Flange (F): 10- CJ2F, 21- CJ2F

Rubber bumper



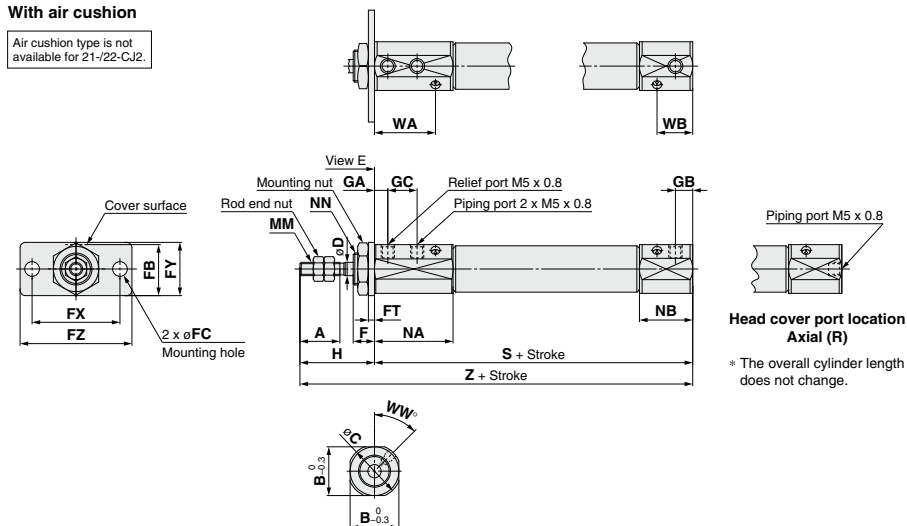
* The overall cylinder length does not change.

Drawing of view E

Bore size	A	BA	BB	CA	CB	D	F	FB	FC	FT	FX	FY	FZ	GA	GB	GC	H	MM	NA	NB	NN	S	T	Z
6	15	15	—	17	—	3	8	14.5	4.5	1.6	24	14	32	12	—	11	28	M3 x 0.5	24.5	7	M8 x 1.0	57.5	3	85.5
10	15	15	12	17	14	4	8	17.5	5.5	2.3	33	20	42	5	5	11	28	M4 x 0.7	20.5	9.5	M10 x 1.0	54	—	82
16	15	18.3	18.3	20	20	5	8	19	5.5	2.3	33	20	42	5	5	11	28	M5 x 0.8	20.5	9.5	M12 x 1.0	55	—	83

With air cushion

Air cushion type is not available for 21-/22-CJ2.



Head cover port location Axial (R)

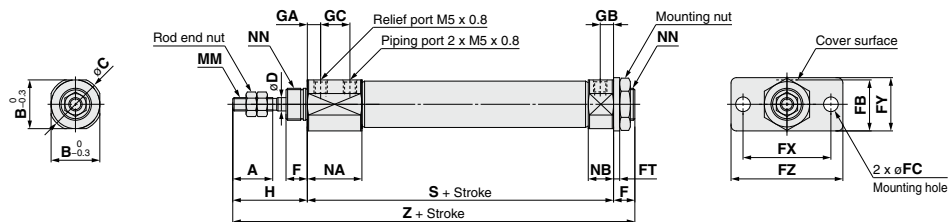
* The overall cylinder length does not change.

Drawing of view E

Bore size	A	B	C	D	F	FB	FC	FT	FX	FY	FZ	GA	GB	GC	H	MM	NA	NB	NN	S	WA	WB	WW	Z
10	15	15	17	4	8	17.5	5.5	2.3	33	20	42	5	6.5	11	28	M4 x 0.7	29.5	20	M10 x 1.0	73.5	22.9	13.4	45	101.5
16	15	18.3	20	5	8	19	5.5	2.3	33	20	42	5	6.5	11	28	M5 x 0.8	29.5	20	M12 x 1.0	74.5	22.9	13.4	45	102.5

Head Flange (G): 10- CJ2G, 21- CJ2G

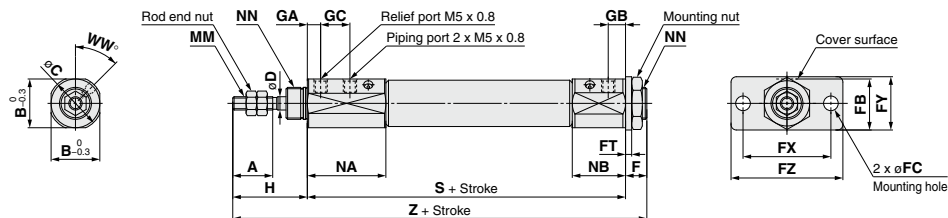
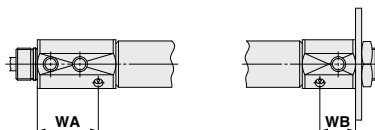
Rubber bumper



Bore size	A	B	C	D	F	FB	FC	FT	FX	FY	FZ	GA	GB	GC	H	MM	NA	NB	NN	S	Z
10	15	15	17	4	8	17.5	5.5	2.3	33	20	42	5	5	11	28	M4 x 0.7	20.5	9.5	M10 x 1.0	54	90
16	15	18.3	20	5	8	19	5.5	2.3	33	20	42	5	5	11	28	M5 x 0.8	20.5	9.5	M12 x 1.0	55	91

With air cushion

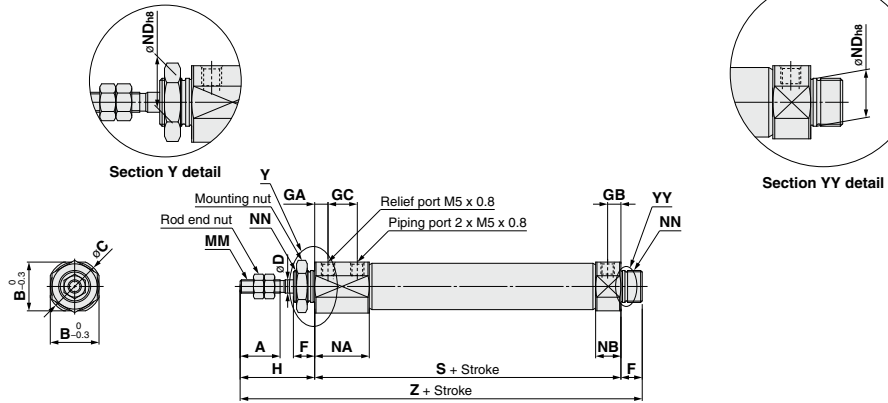
Air cushion type is not available for 21-/22-CJ2.



Bore size	A	B	C	D	F	FB	FC	FT	FX	FY	FZ	GA	GB	GC	H	MM	NA	NB	NN	WA	WB	WW	S	Z
10	15	15	17	4	8	17.5	5.5	2.3	33	20	42	5	6.5	11	28	M4 x 0.7	29.5	20	M10 x 1.0	22.9	13.4	45	73.5	109.5
16	15	18.3	20	5	8	19	5.5	2.3	33	20	42	5	6.5	11	28	M5 x 0.8	29.5	20	M12 x 1.0	22.9	13.4	45	74.5	110.5

Double-side Bossed (E): 10- CJ2E, 21- CJ2E

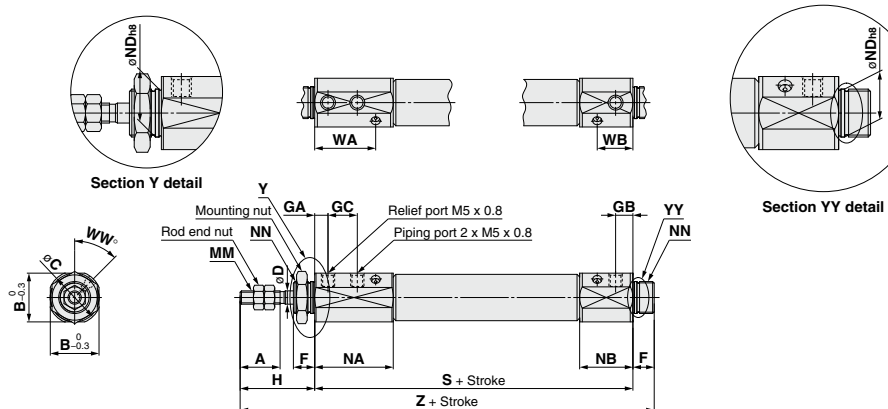
Rubber bumper



Bore size	A	B	C	D	F	GA	GB	GC	H	MM	NA	NB	ND _{h8}	NN	S	Z
10	15	15	17	4	8	5	5	11	28	M4 x 0.7	20.5	9.5	10 ⁰ _{-0.022}	M10 x 1.0	54	90
16	15	18.3	20	5	8	5	5	11	28	M5 x 0.8	20.5	9.5	12 ⁰ _{-0.027}	M12 x 1.0	55	91

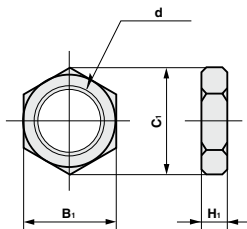
With air cushion

Air cushion type is not available for 21-/22-CJ2.



Bore size	A	B	C	D	F	GA	GB	GC	H	MM	NA	NB	ND _{h8}	NN	WA	WB	WW	S	Z
10	15	15	17	4	8	5	6.5	11	28	M4 x 0.7	29.5	20	10 ⁰ _{-0.022}	M10 x 1.0	22.9	13.4	45	73.5	109.5
16	15	18.3	20	5	8	5	6.5	11	28	M5 x 0.8	29.5	20	12 ⁰ _{-0.027}	M12 x 1.0	22.9	13.4	45	74.5	110.5

Mounting Nut

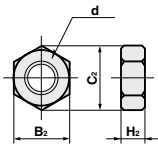


Material: Carbon steel (mm)

Part no.	Applicable bore size	B ₁	C ₁	d	H ₁
SNJ-010B	6	11	12.7	M8 x 1.0	4
SNJ-016C	10	14	16.2	M10 x 1.0	4
SNKJ-016C	16	17	19.6	M12 x 1.0	4

* The applicable mounting nuts are different from those for standard cylinders.

Rod End Nut



Material: Carbon steel (mm)

Part no.	Applicable bore size	B ₂	C ₂	d	H ₂
NTJ-006A	6	5.5	6.4	M3 x 0.5	2.4
NTJ-010C	10	7	8.1	M4 x 0.7	3.2
NTJ-015C	16	8	9.2	M5 x 0.8	4

Directional Control Valves

Air Cylinders

Rotary Actuators

Air Grippers

Air Preparation Equipment

Modular F. R.

Pressure Control Equipment

Fittings & Tubing

Flow Control Equipment

Pressure Switches/Pressure Sensors

Series 10-/11-21-/22-CJ2W-Z ø10, ø16 Double Rod Cylinder

RoHS

How to Order

● **Clean series**

10	Relief type
11	Vacuum suction type

● **Built-in magnet**

Nil	No
D	With auto switch (Built-in magnet)

* For a cylinder with "D", "-B" is suffixed to the end of the part number.

● **Mounting**

B	Basic
L	Foot
F	Flange

* Foot/Flange brackets are shipped together with the product, but not assembled.

● **Auto switch**

Nil	Without auto switch
-----	---------------------

* For applicable auto switches, refer to the Applicable Auto Switch.

* The minimum stroke for auto switch mounting, operating range and auto switch mounting brackets/part no. are the same as standard products.

● **Cylinder stroke (mm)**

● **Bore size (mm)**

● **Number of auto switches**

Nil	2 pcs.
S	1 pc.
n	n pcs.

● **Auto switch mounting type**

Nil	None
B	Band mounting

* Only for With auto switch (Built-in magnet).

* Auto switch mounting method is band mounting only.

Model

10 - C D J 2 W L 16 - 60 Z - M9BW - B*

21 - C D J 2 W L 16 - 60 Z - M9BW - B*

Model		Bore size (mm)	Port size	Lubrication	Action	Standard stroke (mm)	Auto switch mounting	Cushion	
Relief type	10-/21-CJ2W□10	10	M5 x 0.8	Non-lube	Double acting, Double rod	15, 30, 45, 60, 75, 100, 125, 150	Band mounting only	Rubber	Air
	10-/21-CJ2W□16	16				15, 30, 45, 60, 75, 100, 125, 150, 175, 200			
Vacuum suction type	11-/22-CJ2W□10	10				15, 30, 45, 60, 75, 100, 125, 150		Standard	—
	11-/22-CJ2W□16	16				15, 30, 45, 60, 75, 100, 125, 150, 175, 200			

Specifications

Bore size (mm)		10/16
Item		
Proof pressure		1 MPa
Maximum operating pressure		0.7 MPa
Minimum operating pressure		0.1 MPa
Ambient and fluid temperature		Without auto switch: -10°C to 70°C With auto switch: -10°C to 60°C (No freezing)
Piston speed		50 to 400 mm/s
Stroke length tolerance		+1.0 0
Mounting		Basic/Foot/Flange
Grease		10-/11-: Fluorine grease, 21-/22-: Lithium soap based grease
Cleanliness class (ISO class)		10-/21-: Class 4
		11-/22-: Class 3

Suction Flow Rate of Vacuum Suction Type (Reference values)

Size	Suction flow rate L/min (ANR)
10/16	1

Mounting Bracket Part No.

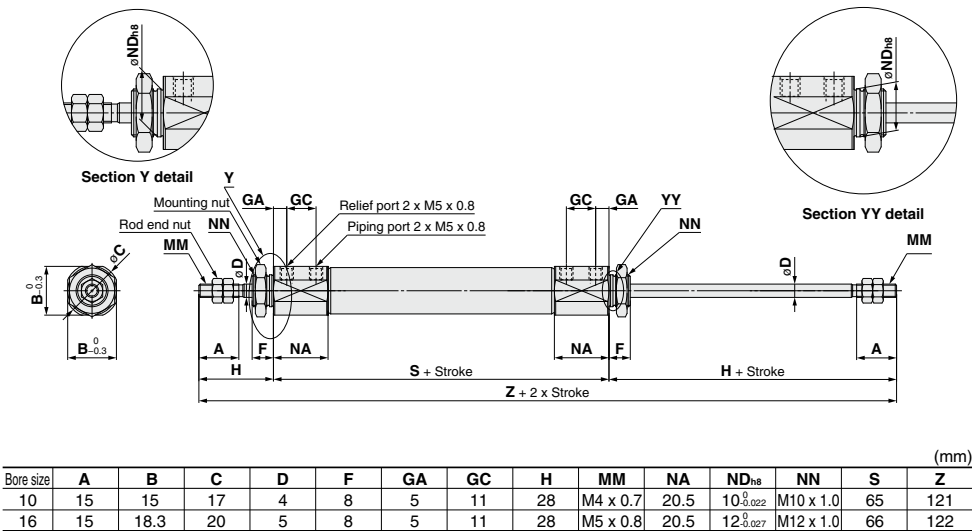
Mounting bracket	Bore size (mm)	
	10	16
Foot	CJ-L016C	CJK-L016C
Flange	CJ-F016C	CJK-F016C

Auto Switch

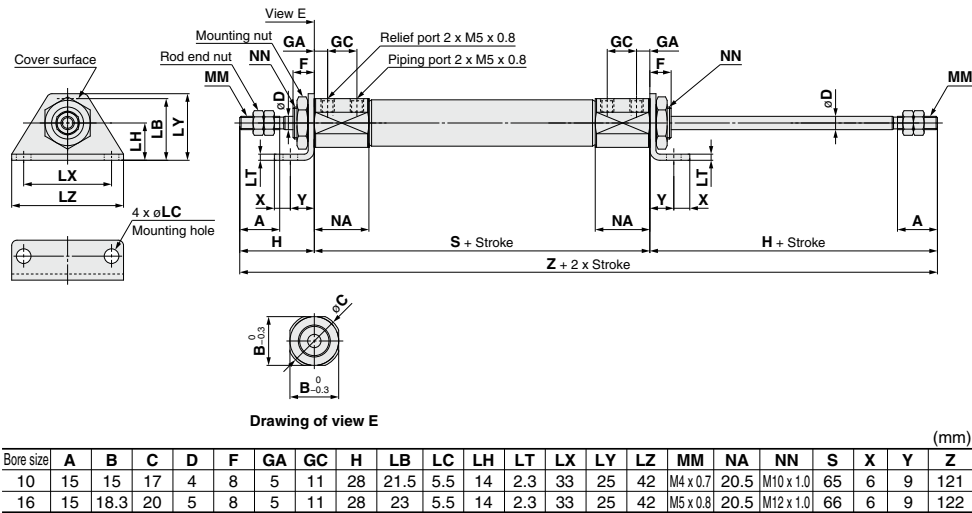
Auto switch specifications and the proper mounting positions for stroke end detection are the same as those for double acting, single rod type.

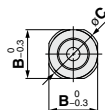
Refer to page 889 for the applicable auto switch list.

Basic (B): 10-**CJ2WB**, 21-**CJ2WB**



Foot (L): 10-**CJ2WL**, 21-**CJ2WL**





Drawing of view E

Drawing of view E																				(mm)
Bore size	A	B	C	D	F	FB	FC	FT	FX	FY	FZ	GA	GC	H	MM	NA	ND _{hs}	NN	S	Z
10	15	15	17	4	8	17.5	5.5	2.3	33	20	42	5	11	28	M4 x 0.7	20.5	10 ^{0.022}	M10 x 1.0	65	121
16	15	18.3	20	5	8	19	5.5	2.3	33	20	42	5	11	28	M5 x 0.8	20.5	12 ^{0.027}	M12 x 1.0	66	122

Be sure to read this before handling.

Mounting

1. During installation, secure the rod cover on the mounting side and tighten by applying an appropriate tightening torque to the retaining nut or to the rod cover on the mounting side. If the rod cover on the opposite side is secured or the rod cover on the opposite side is tightened, the cover could rotate, leading to a deviation.

2. Tighten the retaining screws with an appropriate tightening torque within the range given below.
- ø10: 10.8 to 11.8 N·m
- ø16: 20.0 to 21.0 N·m

Series ^{10-/11-}21-/22-**CJ2RA-Z** ^{ø10, ø16} Direct Mount Cylinder

How to Order

RoHS



● Clean series

10	Relief type
11	Vacuum suction type

10 - C D J 2 R A 16 - 60 R Z - M9BW - B*

21 - C D J 2 R A 16 - 60 R Z - M9BW - B*

Bore size (mm) ●

Cylinder stroke (mm) ●

Built-in magnet ●

Nil	No
D	With auto switch (Built-in magnet)

* For a cylinder with "D", "-B" is suffixed to the end of the part number.

● Copper, fluorine and silicone-free + Low particle generation

21	Relief type
22	Vacuum suction type

Head cover port location ●

Nil	Perpendicular to axis	
R	Axial	

* For double-side bossed type, the product is perpendicular to the cylinder axis.

● Auto switch

Nil	Without auto switch
-----	---------------------

* For applicable auto switches, refer to the Applicable Auto Switch.

* The minimum stroke for auto switch mounting, operating range and auto switch mounting brackets/part no. are the same as standard products.

● Number of auto switches

Nil	2 pcs.
S	1 pc.
n	n pcs.

Auto switch mounting type ●

Nil	None
B	Band mounting

* Only for With auto switch (Built-in magnet).

* Auto switch mounting method is band mounting only.

Model

Model	Bore size (mm)	Port size	Lubrication	Action	Standard stroke (mm)	Auto switch mounting	Cushion	
							Rubber	Air
10-/21-CJ2RA10	10	M5 x 0.8	Non-lube	Double acting, Single rod	15, 30, 45, 60, 75, 100, 125, 150	Band mounting only	Standard	—
10-/21-CJ2RA16	16				15, 30, 45, 60, 75, 100, 125, 150, 175, 200			
11-/22-CJ2RA10	10				15, 30, 45, 60, 75, 100, 125, 150			
11-/22-CJ2RA16	16				15, 30, 45, 60, 75, 100, 125, 150, 175, 200			

Specifications

Bore size (mm)	
Item	10/16
Proof pressure	1 MPa
Maximum operating pressure	0.7 MPa
Minimum operating pressure	0.08 MPa
Ambient and fluid temperature	Without auto switch: -10°C to 70°C With auto switch: -10°C to 60°C (No freezing)
Piston speed	50 to 400 mm/s
Stroke length tolerance	+1 ⁰
Mounting	Bottom mounting
Grease	10-/11-: Fluorine grease, 21-/22-: Lithium soap based grease
Cleanliness class (ISO class)	10-/21-: Class 4
	11-/22-: Class 3

Suction Flow Rate of Vacuum Suction Type (Reference values)

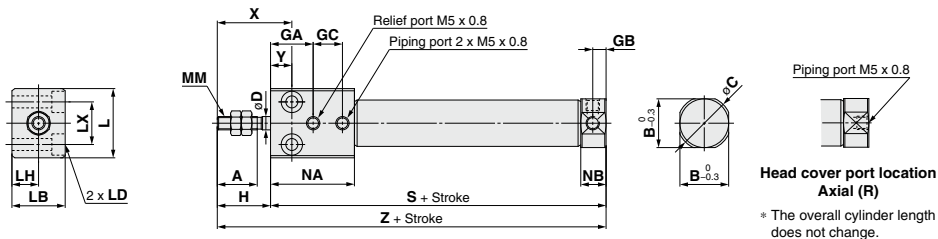
Size	Suction flow rate L/min (ANR)
10/16	1

Auto Switch

Auto switch specifications and the proper mounting positions for stroke end detection are the same as those for double acting, single rod type.

Refer to page 889 for the applicable auto switch list.

Bottom Mounting: 10-11-CJ2RA, 21-22-CJ2RA



Bore size	A	B	C	D	GA	GB	GC	H	L	LB	LD	LH	LX	MM	NA	NB	S	X	Y	Z
10	15	12	14	4	16	5	11	20	23	16	ø3.5 through, ø6.5 depth of counterbore 4	8	12	M4 x 0.7	31.5	9.5	65	28	8	85
16	15	18.3	20	5	16	5	11	20	26	20	ø4.5 through, ø8 depth of counterbore 5	10	16	M5 x 0.8	31.5	9.5	66	28	8	86

⚠ Specific Product Precautions

Be sure to read this before handling.

Mounting

⚠ Caution

- During installation, secure the rod cover on the mounting side and tighten by applying an appropriate tightening torque to the retaining nut or to the rod cover on the mounting side. If the rod cover on the opposite side is secured or the rod cover on the opposite side is tightened, the cover could rotate, leading to a deviation.