

Air Cylinder: Non-rotating Rod Type Single Acting, Spring Return/Extend

CJ2K Series

ø10, ø16

RoHS

How to Order



With auto switch

CDJ2K B 16 - 45 S Z - M9BW - B -

With auto switch (Built-in magnet)*

1 Mounting

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

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

**: Refer to page 151-1 for the double clevis (with one-touch connecting pin).

3 Auto switch

Nil	Without auto switch
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*: For applicable auto switches, refer to the table below.

* Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto switch is required.

2 Bore size

10	10 mm
16	16 mm

5 Head cover port location

Nil	Perpendicular to axis
R	Axial

*: For double clevis, the product is perpendicular to the cylinder axis.

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

*: Not applicable to single acting, spring extend (T).

9 Number of auto switches

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

3 Cylinder standard stroke [mm]

Refer to "Standard Strokes" on page 96.

6 Pivot bracket

Nil	None
N	Pivot bracket is shipped together with the product.

*: Only for the double clevis type

*: Pivot bracket is shipped together with the product, but not assembled.

10 Auto switch mounting type

A	Rail mounting
B	Band mounting

*: For rail mounting, screws and nuts for 2 auto switches come with the rail.

*: Refer to page 148 for auto switch mounting brackets.

4 Action

S	Single acting, Spring return
T	Single acting, Spring extend

7 Rod end bracket

Nil	None
V	Single knuckle joint
W**	Double knuckle joint
T	Rod end cap (Flat type)
U	Rod end cap (Round type)

*: Rod end bracket is shipped together with the product, but not assembled.

**: Refer to page 63 for the double knuckle joint (with one-touch connecting pin).

11 Made to Order

Refer to page 96 for details.

*: Refer to "Ordering Example of Cylinder Assembly" on page 96.

Applicable Auto Switches/Refer to pages 1575 to 1701 for further information on auto switches.

Type	Special function	Electrical entry	Indicator/light	Wiring (Output)	Load voltage		Auto switch model				Lead wire length [m]					Pre-wired connector	Applicable load	
					DC	AC	Band mounting		Rail mounting		0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)			
							Perpendicular	In-line	Perpendicular	In-line								
Solid state auto switch	—	Grommet	3-wire (NPN)	24 V	—	5 V, 12 V	M9NV	M9N	M9NV	M9N	●	●	○	—	○	IC circuit	Relay, PLC	
			3-wire (PNP)				M9PV	M9P	M9PV	M9P	●	●	○	—	○			
		Connector	2-wire			12 V	M9BV	M9B	M9BV	M9B	●	●	○	—	○	—		
			—			—	—	H7C	J79C	—	●	●	●	○	○			
	Diagnostic indication (2-color indicator)	Yes	3-wire (NPN)	24 V	—	5 V, 12 V	M9NVW	M9NW	M9NVW	M9NW	●	●	○	—	○	IC circuit		
			3-wire (PNP)				M9PWV	M9PW	M9PWV	M9PW	●	●	○	—	○			
		Grommet	2-wire			12 V	M9BWV	M9BW	M9BWV	M9BW	●	●	○	—	○	—		
			3-wire (NPN)			5 V, 12 V	M9NAV ^{*1}	M9NA ^{*1}	M9NAV ^{*1}	M9NA ^{*1}	○	○	●	○	○			IC circuit
	Water resistant (2-color indicator)	Grommet	3-wire (PNP)	24 V	—	12 V	M9PAV ^{*1}	M9PA ^{*1}	M9PAV ^{*1}	M9PA ^{*1}	○	○	○	○	○	—		
			2-wire				M9BAV ^{*1}	M9BA ^{*1}	M9BAV ^{*1}	M9BA ^{*1}	○	○	○	○	○			
Connector		4-wire (NPN)	5 V, 12 V			—	H7NF	—	F79F	●	—	●	○	○	○	IC circuit		
		—	—			—	—	—	—	—	—	—	—	—	—			
Reed auto switch	—	Grommet	3-wire (NPN equivalent)	24 V	—	5 V	A96V	A96	A96V	A96	●	●	—	—	—	IC circuit	Relay, PLC	
			—				200 V	—	—	A72	A72H	●	—	—	—			—
		Connector	2-wire			12 V	100 V	A93V ^{*2}	A93	A93V ^{*2}	A93	●	●	●	—	—		—
			—			100 V or less	A90V	A90	A90V	A90	●	—	●	—	—	IC circuit		
	Diagnostic indication (2-color indicator)	Yes	2-wire	24 V	—	24 V or less	—	—	C73C	A73C	—	—	●	●	●			—
			—				—	—	C80C	A80C	—	—	●	—	●	—		IC circuit
		Grommet	2-wire			—	—	—	A79W	—	—	●	—	●	—	—		
			—			—	—	—	—	—	—	—	—	—	—	—		—

*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.

*2: Please contact SMC regarding water resistant types with the above model numbers.

*3: 1 m type lead wire is only applicable to D-A93.

*4: Lead wire length symbols: 0.5 m..... Nil (Example) M9NW
1 m..... M (Example) M9MW
3 m..... L (Example) M9NL

5 m..... Z (Example) M9NZ
None..... N (Example) H7CN

*5: Since there are other applicable auto switches than listed, refer to page 149 for details.

*6: Solid state auto switches marked with "○" are produced upon receipt of order.

*7: The D-A91/M91/A71/A801/F71/J71 auto switches are shipped together, but not assembled. (For band mounting, only auto switch mounting brackets are assembled before being shipped.)



A cylinder which rod does not rotate because of the hexagonal rod shape.

Non-rotating accuracy

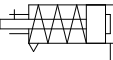
ø10: ±1.5°, ø16: ±1°

Can operate without lubrication.

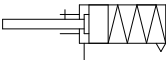


Symbol

Single acting, Spring return, Rubber bumper



Single acting, Spring extend, Rubber bumper



Made to Order: Individual Specifications
(For details, refer to page 150.)

Symbol	Specifications
-X446	PTFE grease
-X2838	Double clevis (With one-touch connecting pin)

Made to Order

[Click here for details](#)

Symbol	Specifications
-XA□	Change of rod end shape
-XC51	With hose nipple
-XC85	Grease for food processing equipment

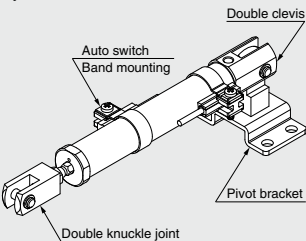


Precautions

Refer to page 152 before handling.

Ordering Example of Cylinder Assembly

Cylinder model: CDJ2K16-45SZ-NW-M9BW-B



Mounting D: Double clevis
Pivot bracket N: Yes
Rod end bracket W: Double knuckle joint
Auto switch D-M9BW: 2 pcs.
Auto switch mounting B: Band mounting

*: Pivot bracket, double knuckle joint and auto switch are shipped together with the product, but not assembled.

Specifications

Bore size [mm]	10	16
Action	Single acting, Spring return/Single acting, Spring extend	
Fluid	Air	
Proof pressure	1 MPa	
Maximum operating pressure	0.7 MPa	
Minimum operating pressure	0.15 MPa	
Ambient and fluid temperature	Without auto switch: -10°C to 70°C (No freezing) With auto switch: -10°C to 60°C	
Cushion	Rubber bumper (standard equipment)	
Lubrication	Not required (Non-lube)	
Stroke length tolerance	+1.0 -0	
Rod non-rotating accuracy	±1.5°	±1°
Piston speed	50 to 750 mm/s	
Allowable kinetic energy	0.035 J	0.090 J

Standard Strokes

Bore size	Standard stroke [mm]
10	15, 30, 45, 60
16	15, 30, 45, 60, 75, 100, 125, 150

- *: Manufacture of intermediate strokes in 1 mm increments is possible. (Spacers are not used.)
- *: Please consult with SMC for strokes which exceed the standard stroke length.
- *: Applicable strokes should be confirmed according to the usage. For details, refer to "Air Cylinders Model Selection" on front matter pages. In addition, the products that exceed the standard stroke might not be able to fulfill the specifications due to the deflection etc.

Spring Reaction Force

Refer to page 1899 (Table (2): Spring Reaction Force).

Mounting and Accessories

●...Mounted on the product. ○...Can be ordered within the cylinder model. △...Order separately.

Mounting	Basic	Foot	Flange	Double clevis	Double clevis (including T-bracket)
Standard					
Mounting nut	●	●	●	—	—
Rod end nut	●	●	●	—	—
Clevis pin (including retaining rings)	—	—	—	●	●
Double clevis (With one-touch connecting pin)	△	△	△	○ (-X2838)	○ (-X2838)
Option					
Single knuckle joint	○	○	○	○	○
Double knuckle joint (including a pin and retaining rings)	○	○	○	○	○
Double knuckle joint (With one-touch connecting pin)	△	△	△	△	△
Rod end cap (Flat/Round type)	○	○	○	○	○
Pivot bracket (T-bracket)	—	—	—	○	●

Mounting Brackets/Part No.

Mounting bracket	Bore size [mm]	
	10	16
Foot	CJ-L016C	CJK-L016C
Flange	CJ-F016C	CJK-F016C
Pivot bracket (T-bracket)*1	CJ-T010C	CJ-T016C

*1: The pivot bracket (T-bracket) is used with double clevis (D).

Refer to pages 142 to 149 for cylinders with auto switches.

- Auto switch proper mounting position (detection at stroke end) and its mounting height
- Minimum stroke for auto switch mounting
- Operating range
- Auto switch mounting brackets/Part no.

Weights

Spring Return

[g]

Bore size [mm]		10				16			
Mounting		Basic	Axial piping	Double clevis (including clevis pin)	Double-side bossed	Basic	Axial piping	Double clevis (including clevis pin)	Double-side bossed
Basic weight	15 stroke	30	30	30	31	64	64	70	66
	30 stroke	38	38	38	39	79	79	86	81
	45 stroke	48	48	48	49	97	97	104	99
	60 stroke	58	58	58	59	116	116	122	118
	75 stroke					138	138	144	140
	100 stroke					171	171	178	173
	125 stroke					209	209	215	211
	150 stroke					232	232	238	234
Mounting bracket weight	Single foot	8				25			
	Double foot	16				50			
	Rod flange	5				13			
	Head flange	5				13			
Accessories	Clevis pin	—	—	1	—	—	—	3	—
	One-touch connecting pin for double clevis	—	—	2	—	—	—	4	—
	Single knuckle joint	17				23			
	Double knuckle joint (including knuckle pin)	25				21			
	Double knuckle joint (With one-touch connecting pin)	26				22			
	Rod end cap (Flat type)	1				2			
	Rod end cap (Round type)	1				2			
	Pivot Bracket (T-bracket)	32				50			

*: Mounting nut and rod end nut are included in the basic weight.

*: Mounting nut is not included in the basic weight for the double clevis.

Calculation:

Example) **CJ2KL10-45SZ**

- Basic weight 48 (ø10)
- Cylinder stroke 45 stroke
- Mounting bracket weight 8 (Single foot)

$$48 + 8 = 56 \text{ g}$$

Spring Extend

[g]

Bore size [mm]		10				16			
Mounting		Basic	Axial piping	Double clevis (including clevis pin)	Double-side bossed	Basic	Axial piping	Double clevis (including clevis pin)	Double-side bossed
Basic weight	15 stroke	29	29	31	31	64	64	72	69
	30 stroke	35	35	37	38	79	79	86	83
	45 stroke	44	44	46	46	95	95	103	99
	60 stroke	52	52	54	55	111	111	119	115
	75 stroke					133	133	140	137
	100 stroke					163	163	170	167
	125 stroke					198	198	206	202
	150 stroke					219	219	227	223
Mounting bracket weight	Single foot	8				25			
	Double foot	16				50			
	Rod flange	5				13			
	Head flange	5				13			
Accessories	Clevis pin	—	—	1	—	—	—	3	—
	One-touch connecting pin for double clevis	—	—	2	—	—	—	4	—
	Single knuckle joint	17				23			
	Double knuckle joint (including knuckle pin)	25				21			
	Double knuckle joint (With one-touch connecting pin)	26				22			
	Rod end cap (Flat type)	1				2			
	Rod end cap (Round type)	1				2			
	Pivot Bracket (T-bracket)	32				50			

*: Mounting nut and rod end nut are included in the basic weight.

*: Mounting nut is not included in the basic weight for the double clevis.

Calculation:

Example) **CJ2KL10-45TZ**

- Basic weight 44 (ø10)
- Cylinder stroke 45 stroke
- Mounting bracket weight 8 (Single foot)

$$44 + 8 = 52 \text{ g}$$

CJ1

CJP

CJ2

JCM

CM2

CM3

CG1

CG3

JMB

MB

MB1

CA2

CS1

CS2

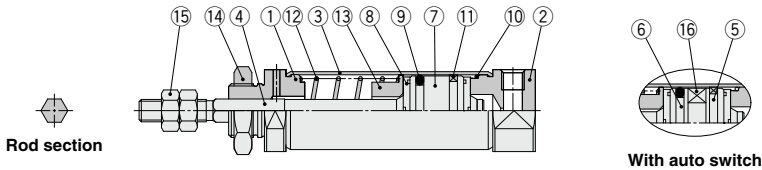
D-□

-X□

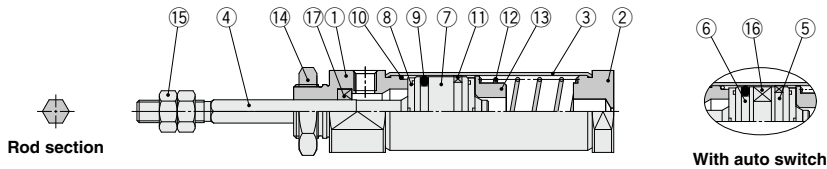
Technical Data

Construction (Not able to disassemble)

Single acting, Spring return



Single acting, Spring extend



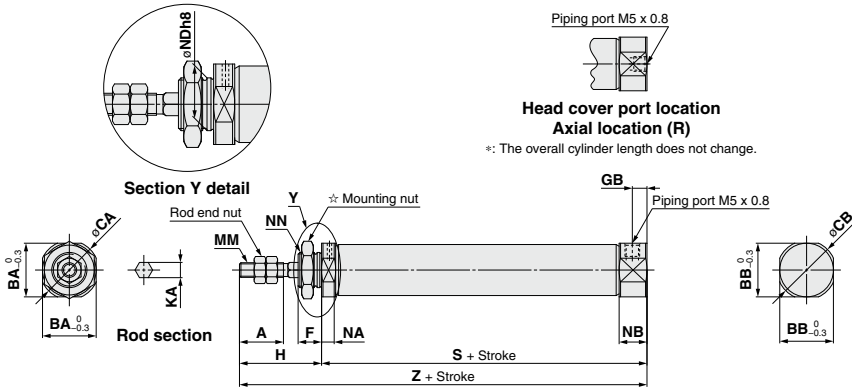
Component Parts

No.	Description	Material	Note
1	Rod cover	Aluminum alloy	
2	Head cover	Aluminum alloy	
3	Cylinder tube	Stainless steel	
4	Piston rod	Stainless steel	
5	Piston A	Aluminum alloy	
6	Piston B	Aluminum alloy	
7	Piston	Aluminum alloy	
8	Bumper	Urethane	
9	Piston seal	NBR	

No.	Description	Material	Note
10	Tube gasket	NBR	
11	Wear ring	Resin	
12	Return spring	Piano wire	
13	Spring seat	Aluminum alloy	
14	Mounting nut	Rolled steel	
15	Rod end nut	Rolled steel	
16	Magnet	—	
17	Rod seal	NBR	

Single Acting, Spring Return: Basic (B)

CJ2KB $\frac{10}{16}$ – Stroke S Head cover port location Z

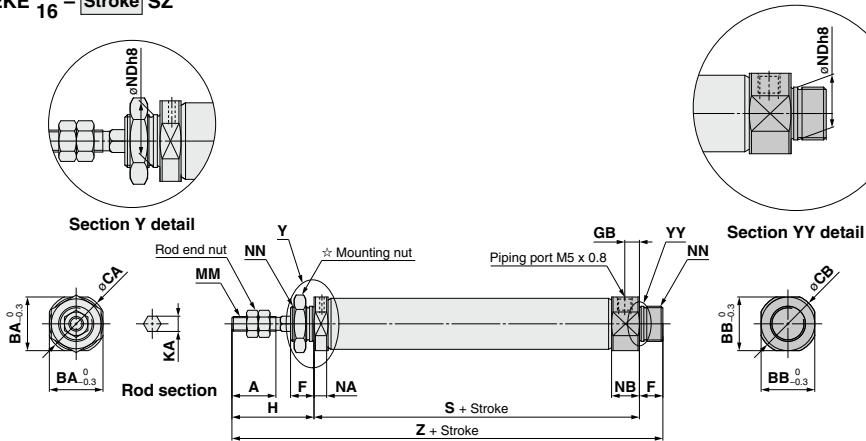


☆ For details of the mounting nut, refer to page 63.

Bore size	A	BA	BB	CA	CB	F	GB	H	KA	MM	NA	NB	NDh8	NN	S								Z							
															5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st
10	15	15	12	17	14	8	5	28	4.2	M4 x 0.7	4.8	9.5	10 $\frac{0}{-0.022}$	M10 x 1.0	45.5	53	65	77	—	—	—	—	73.5	81	93	105	—	—	—	—
16	15	18.3	18.3	20	20	8	5	28	5.2	M5 x 0.8	4.8	9.5	12 $\frac{0}{-0.027}$	M12 x 1.0	45.5	54	66	78	84	108	126	138	73.5	82	94	106	112	136	154	166

Single Acting, Spring Return: Double-side Bossed (E)

CJ2KE $\frac{10}{16}$ – Stroke SZ

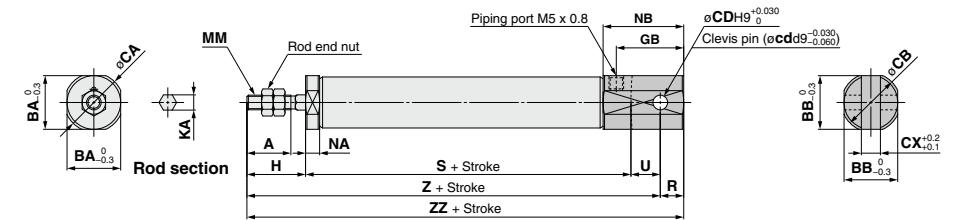


☆ For details of the mounting nut, refer to page 63.

Bore size	A	BA	BB	CA	CB	F	GB	H	KA	MM	NA	NB	NDh8	NN	S								Z							
															5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st
10	15	15	15	17	17	8	5	28	4.2	M4 x 0.7	4.8	9.5	10 $\frac{0}{-0.022}$	M10 x 1.0	45.5	53	65	77	—	—	—	—	81.5	89	101	113	—	—	—	—
16	15	18.3	18.3	20	20	8	5	28	5.2	M5 x 0.8	4.8	9.5	12 $\frac{0}{-0.027}$	M12 x 1.0	45.5	54	66	78	84	108	126	138	81.5	90	102	114	120	144	162	174

Single Acting, Spring Return: Double Clevis (D)

CJ2KD 10 16 – Stroke SZ



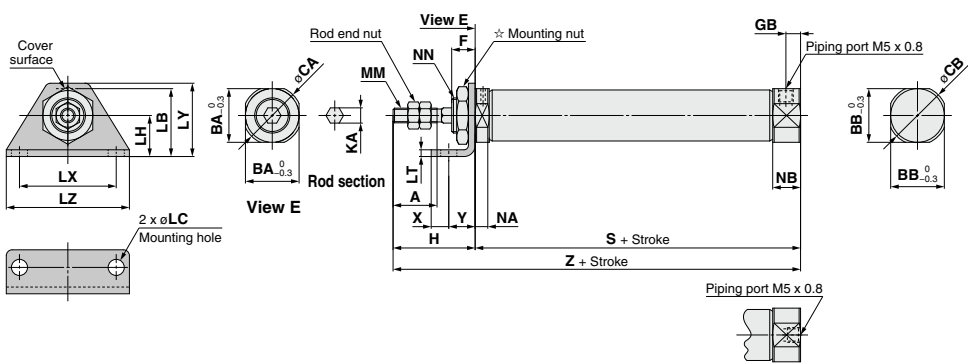
※: A clevis pin and retaining rings are included.

Bore size	A	BA	BB	CA	CB	CD (cd)	CX	GB	H	KA	MM	NA	NB	R	U	S							
																5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st
10	15	12	12	14	14	3.3	3.2	18	20	4.2	M4 x 0.7	4.8	22.5	5	8	45.5	53	65	77	—	—	—	—
16	15	18.3	18.3	20	20	5	6.5	23	20	5.2	M5 x 0.8	4.8	27.5	8	10	45.5	54	66	78	84	108	126	138

Bore size	Z								ZZ							
	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st
10	73.5	81	93	105	—	—	—	—	78.5	86	98	110	—	—	—	—
16	75.5	84	96	108	114	138	156	168	83.5	92	104	116	122	146	164	176

Single Acting, Spring Return: Single Foot (L)

CJ2KL 10 16 – Stroke S Head cover port location Z



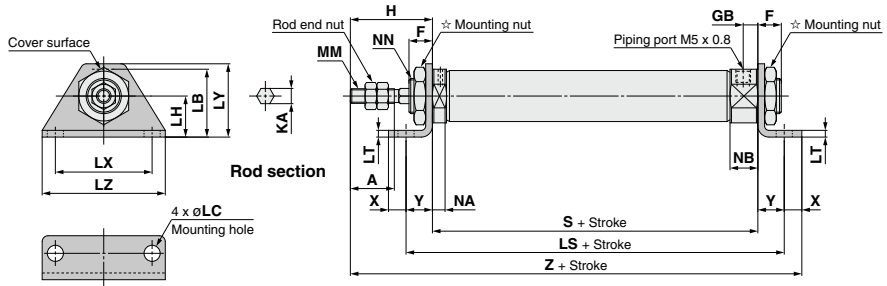
☆ For details of the mounting nut, refer to page 63.

Bore size	A	BA	BB	CA	CB	F	GB	H	KA	LB	LC	LH	LT	LX	LY	LZ	MM	NA	NB	NN
10	15	15	12	17	14	8	5	28	4.2	21.5	5.5	14	2.3	33	25	42	M4 x 0.7	4.8	9.5	M10 x 1.0
16	15	18.3	18.3	20	20	8	5	28	5.2	23	5.5	14	2.3	33	25	42	M5 x 0.8	4.8	9.5	M12 x 1.0

Bore size	S								X	Y	Z							
	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st			5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st
10	45.5	53	65	77	—	—	—	—	6	9	73.5	81	93	105	—	—	—	—
16	45.5	54	66	78	84	108	126	138	6	9	73.5	82	94	106	112	136	154	166

Single Acting, Spring Return: Double Foot (M)

CJ2KM $\frac{10}{16}$ – Stroke SZ



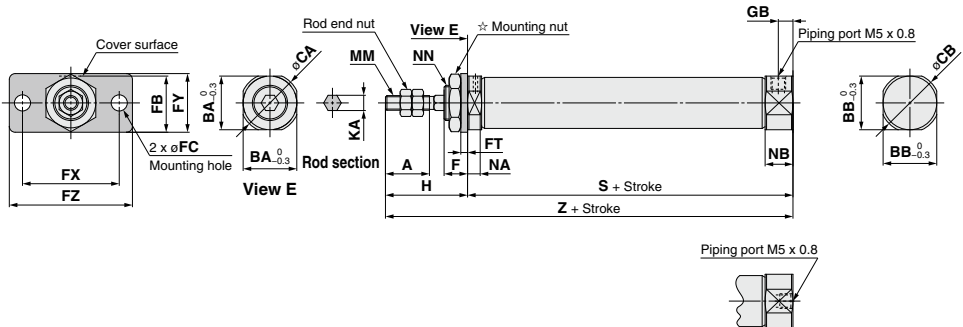
☆ For details of the mounting nut, refer to page 63.

Bore size	A	F	GB	H	LB	LC	LH	LS										LT	LX	LY	LZ	KA	MM	NA	NB	NN
								5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st											
10	15	8	5	28	21.5	5.5	14	63.5	71	83	95	—	—	—	—	2.3	33	25	42	4.2	M4 x 0.7	4.8	9.5	M10 x 1.0		
16	15	8	5	28	23	5.5	14	63.5	72	84	96	102	126	144	156	2.3	33	25	42	5.2	M5 x 0.8	4.8	9.5	M12 x 1.0		

Bore size	S										X	Y	Z										
	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st	151 to 180 st	5 to 15 st			16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st				
10	45.5	53	65	77	—	—	—	—	—	6	9	88.5	96	108	120	—	—	—	—	—	—	—	—
16	45.5	54	66	78	84	108	126	138	6	9	88.5	97	109	121	127	151	169	181	—	—	—	—	

Single Acting, Spring Return: Rod Flange (F)

CJ2KF $\frac{10}{16}$ – Stroke S Head cover port location Z



Head cover port location
Axial location (R)

☆ For details of the mounting nut, refer to page 63.

*: The overall cylinder length does not change.

For details of the mounting nut, refer to page 63.

Bore size	A	BA	BB	CA	CB	F	FB	FC	FT	FX	FY	FZ	GB	H	KA	MM	NA	NB	NN	S										Z									
																				5 to 15	16 to 30	31 to 45	46 to 60	61 to 75	76 to 100	101 to 125	126 to 150	5 to 15	16 to 30	31 to 45	46 to 60	61 to 75	76 to 100	101 to 125	126 to 150				
																				st	st	st	st	st	st	st	st	st	st	st	st	st	st	st	st	st			
10	15	15	12	17	14	8	17.5	5.5	2.3	33	20	42	5	28	4.2	M4 x 0.7	4.8	9.5	M10 x 1.0	45.5	53	65	77	—	—	—	—	—	73.5	81	93	105	—	—	—	—			
16	15	18.3	18.3	20	20	8	19	5.5	2.3	33	20	42	5	28	5.2	M5 x 0.8	4.8	9.5	M12 x 1.0	45.5	54	66	78	84	108	126	138	138	73.5	82	94	106	112	136	154	166			

CJ1

CJP

CJ2

JCM

CM2

CM3

CG1

CG3

JMB

MB

MB1

CA2

CS1

CS2

D-□

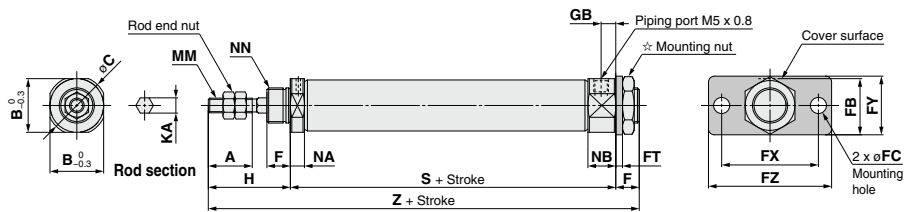
-X□

Technical Data

CJ2K Series

Single Acting, Spring Return: Head Flange (G)

CJ2KG $\frac{10}{16}$ – Stroke SZ



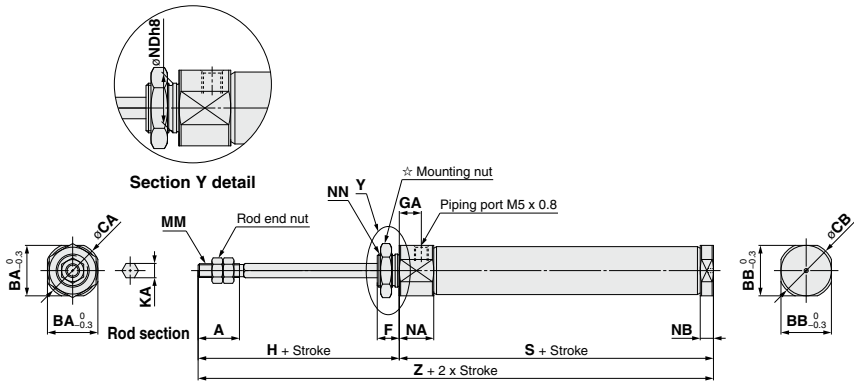
☆ For details of the mounting nut, refer to page 63.

Bore size	[mm]														
	A	B	C	F	FB	FC	FT	FX	FY	FZ	GB	H	KA	MM	NN
10	15	15	17	8	17.5	5.5	2.3	33	20	42	5	28	4.2	M4 x 0.7	M10 x 1.0
16	15	18.3	20	8	19	5.5	2.3	33	20	42	5	28	5.2	M5 x 0.8	M12 x 1.0

Bore size	S												Z									
	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st						
10	45.5	53	65	77	—	—	—	—	81.5	89	101	113	—	—	—	—						
16	45.5	54	66	78	84	108	126	138	81.5	90	102	114	120	144	162	174						

Single Acting, Spring Extend: Basic (B)

CJ2KB $\frac{10}{16}$ – Stroke TZ

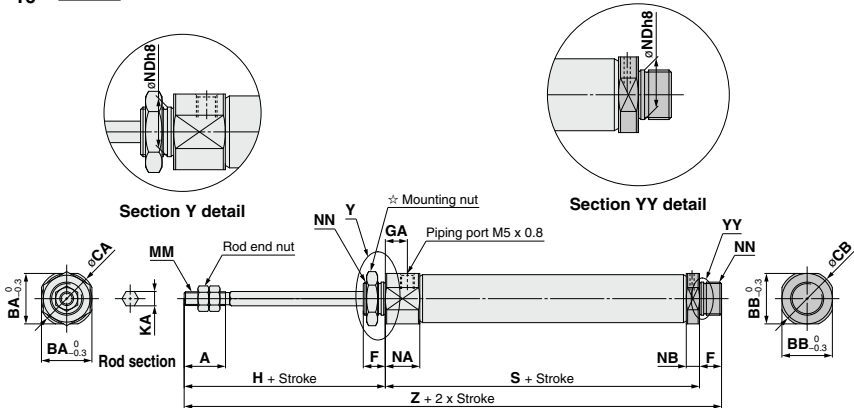


☆ For details of the mounting nut, refer to page 63.

For details of the mounting nut, refer to page 63.																												[mm]			
Bore size	S														Z																
	A	BA	BB	CA	CB	F	GA	H	KA	MM	NA	NB	NDh8	NN	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st	
	10	15	15	12	17	14	8	8	28	4.2	M4 x 0.7	12.5	4.8	10 ⁰ _{-0.022}	M10 x 1.0	48.5	56	68	80	—	—	—	—	76.5	84	96	108	—	—	—	—
16	15	18.3	18.3	20	20	8	8	28	5.2	M5 x 0.8	12.5	4.8	12 ⁰ _{-0.022}	M12 x 1.0	48.5	57	69	81	87	111	129	141	141	76.5	85	97	109	115	139	157	169

Single Acting, Spring Extend: Double-side Bossed (E)

CJ2KE $\frac{10}{16}$ – Stroke TZ



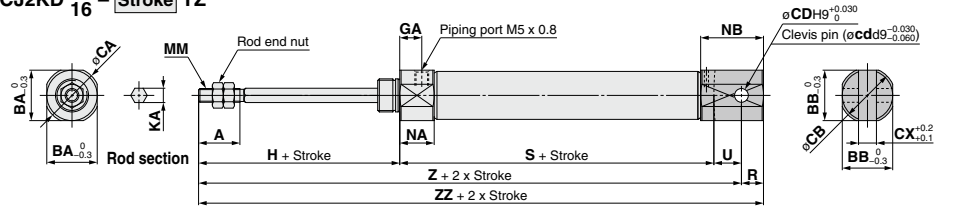
☆ For details of the mounting nut, refer to page 63.

☆ For details of the mounting nut, refer to page 63.

		S															Z										[mm]					
Bore size		A	BA	BB	CA	CB	F	GA	H	KA	MM	NA	NB	NDh8	NN																	
																5 to 15	16 to 30	31 to 45	46 to 60	61 to 75	76 to 100	101 to 125	126 to 150	5 to 15	16 to 30	31 to 45	46 to 60	61 to 75	76 to 100	101 to 125	126 to 150	
10		15	15	15	17	17	8	8	28	4.2	M4 x 0.7	12.5	4.8	10 ⁰ _{-0.022}	M10 x 1.0	48.5	56	68	80	—	—	—	—	84.5	92	104	116	—	—	—	—	
16		15	18.3	18.3	20	20	8	8	28	5.2	M5 x 0.8	12.5	4.8	12 ⁰ _{-0.027}	M12 x 1.0	48.5	57	69	81	87	111	129	141	141	84.5	93	105	117	123	147	165	177

Single Acting, Spring Extend: Double Clevis (D)

CJ2KD 10 16 – Stroke TZ



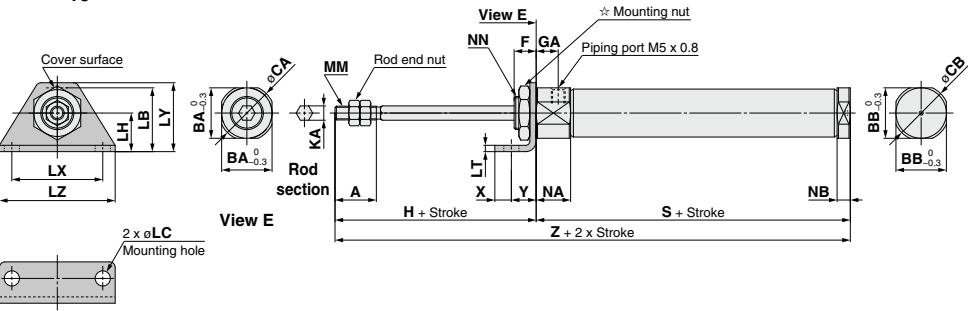
* A clevis pin and retaining rings are included. [mm]

Bore size	A	BA	BB	CA	CB	CD (cd)	CX	GA	H	KA	MM	NA	NB	R	U	S							
																5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st
10	15	15	12	17	14	3.3	3.2	8	28	4.2	M4 x 0.7	12.5	17.8	5	8	48.5	56	68	80	—	—	—	—
16	15	18.3	18.3	20	20	5	6.5	8	28	5.2	M5 x 0.8	12.5	22.8	8	10	48.5	57	69	81	87	111	129	141

Bore size	Z								ZZ							
	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st
10	84.5	92	104	116	—	—	—	—	89.5	97	109	121	—	—	—	—
16	86.5	95	107	119	125	149	167	179	94.5	103	115	127	133	157	175	187

Single Acting, Spring Extend: Single Foot (L)

CJ2KL 10 16 – Stroke TZ



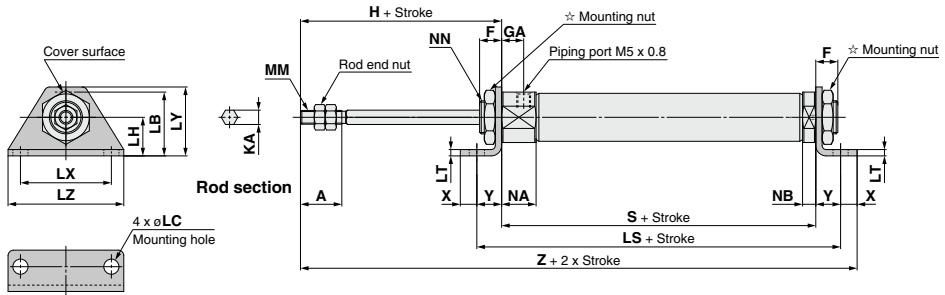
☆ For details of the mounting nut, refer to page 63. [mm]

Bore size	A	BA	BB	CA	CB	F	GA	H	KA	LB	LC	LH	LT	LX	LY	LZ	MM	NA	NB	NN
10	15	15	12	17	14	8	8	28	4.2	21.5	5.5	14	2.3	33	25	42	M4 x 0.7	12.5	4.8	M10 x 1.0
16	15	18.3	18.3	20	20	8	8	28	5.2	23	5.5	14	2.3	33	25	42	M5 x 0.8	12.5	4.8	M12 x 1.0

Bore size	S								X	Y	Z							
	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st			5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st
10	48.5	56	68	80	—	—	—	—	6	9	76.5	84	96	108	—	—	—	—
16	48.5	57	69	81	87	111	129	141	6	9	76.5	85	97	109	115	139	157	169

Single Acting, Spring Extend: Double Foot (M)

CJ2KM $\frac{10}{16}$ – Stroke TZ



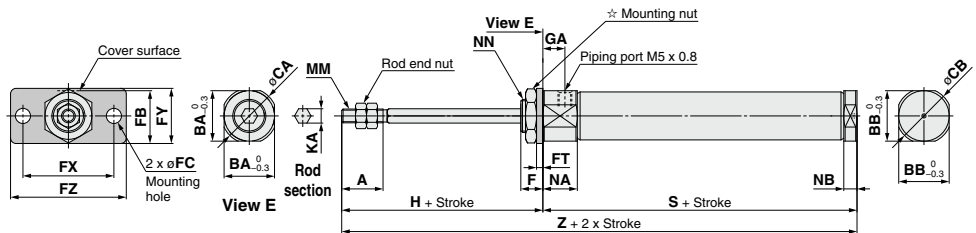
☆ For details of the mounting nut, refer to page 63.

Bore size	A	F	GA	H	KA	LB	LC	LH	LS								LT	LX	LY	LZ	MM	NA	NB	NN
									5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st								
10	15	8	8	28	4.2	21.5	5.5	14	66.5	74	86	98	—	—	—	—	2.3	33	25	42	M4 x 0.7	12.5	4.8	M10 x 1.0
16	15	8	8	28	5.2	23	5.5	14	66.5	75	87	99	105	129	147	159	2.3	33	25	42	M5 x 0.8	12.5	4.8	M12 x 1.0

Bore size	S								X	Y	Z							
	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st			5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st
10	48.5	56	68	80	—	—	—	—	6	9	91.5	99	111	123	—	—	—	—
16	48.5	57	69	81	87	111	129	141	6	9	91.5	100	112	124	130	154	172	184

Single Acting, Spring Extend: Rod Flange (F)

CJ2KF $\frac{10}{16}$ – Stroke TZ



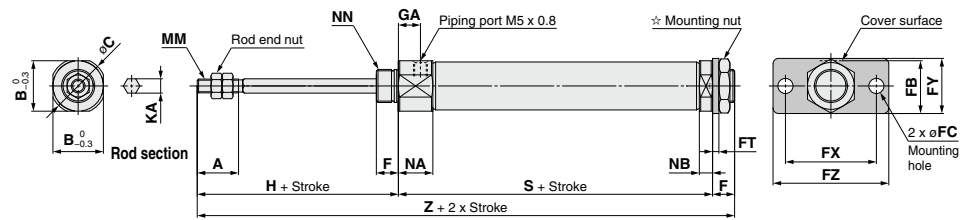
☆ For details of the mounting nut, refer to page 63.

Bore size	A	BA	BB	CA	CB	F	FB	FC	FT	FX	FY	FZ	GA	H	KA	MM	NA	NB	NN
10	15	15	12	17	14	8	17.5	5.5	2.3	33	20	42	8	28	4.2	M4 x 0.7	12.5	4.8	M10 x 1.0
16	15	18.3	18.3	20	20	8	19	5.5	2.3	33	20	42	8	28	5.2	M5 x 0.8	12.5	4.8	M12 x 1.0

Bore size	S								Z							
	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st
10	48.5	56	68	80	—	—	—	—	76.5	84	96	108	—	—	—	—
16	48.5	57	69	81	87	111	129	141	76.5	85	97	109	115	139	157	169

Single Acting, Spring Extend: Head Flange (G)

CJ2KG 10 16 – Stroke TZ



☆ For details of the mounting nut, refer to page 63. [mm]

Bore size	A	B	C	F	FB	FC	FT	FX	FY	FZ	GA	H	KA	MM	NA	NB	NN
10	15	15	17	8	17.5	5.5	2.3	33	20	42	8	28	4.2	M4 x 0.7	12.5	4.8	M10 x 1.0
16	15	18.3	20	8	19	5.5	2.3	33	20	42	8	28	5.2	M5 x 0.8	12.5	4.8	M12 x 1.0

Bore size	S								Z							
	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st	5 to 15 st	16 to 30 st	31 to 45 st	46 to 60 st	61 to 75 st	76 to 100 st	101 to 125 st	126 to 150 st
10	48.5	56	68	80	—	—	—	—	84.5	92	104	116	—	—	—	—
16	48.5	57	69	81	87	111	129	141	84.5	93	105	117	123	147	165	177