

# Air Cylinder: Standard Type Double Acting, Single Rod

## Series CJ2

ø6, ø10, ø16

### How to Order

**Bore size**

6	6 mm
10	10 mm
16	16 mm

**Mounting style**

B	Basic style
L	Axial foot style
F	Rod side flange style
D	Double clevis style (Except ø6)

**Cylinder standard stroke (mm)**  
Refer to the standard stroke table on page 43.

**Cushion**

Nil	Rubber bumper
A	Air cushion (Except ø6)

**Built-in Magnet Cylinder Model**  
Suffix the symbol "-A" (Rail mounting style) or "-B" (Band mounting style) to the end of part number for cylinder with auto switch.

Example: Rail mounting style CDJ2B10-45-A  
Band mounting style CDJ2B16-60-B

\* For rail mounting style, screws and nuts for 2 pcs switches come with the rail.  
\* Refer to page 123 for switch mounting brackets.

**With auto switch**

**Band mounting style**

**Head cover port location**

Bore size (mm)	ø6	ø10, ø16
Nil	—	Perpendicular to axis
R	Axial	Axial

\* For configuration, refer to page 43.  
\* Double clevis is only available for being perpendicular to axis.

**Auto switch**  
\* For the applicable auto switch model, refer to the table below.  
\* If a built-in magnet cylinder without an auto switch is required, refer to the model of built-in magnet cylinder.

**Number of auto switches**

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

**Made to Order**  
Refer to page 43 for details.

**Ordering Example:**  
CJ2 L 16 - 60 A - [ ] - [ ]  
With auto switch: CDJ2 L 16 - 60 A - [ ] - M9BW [ ] - [ ]

### Applicable Auto Switch/Refer to pages 1263 to 1371 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 (ø6, ø10, ø16)	Rail mounting (ø10, ø16)		0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)				
								Perpendicular	In-line									
Solid state switch	—	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9N	—	—	●	●	●	○	—	○	IC circuit	Relay, PLC	
				—			F7NV	F79	●	—	●	○	—	○				
		M9P		—			—	●	●	●	○	—	○					
		—		F7PV			F7P	●	—	●	○	—	○					
	Diagnostic indication (2-color indication)	Connector		2-wire	12 V		M9B	—	—	●	●	●	○	—	○	—		
				—	F7BV		J79	●	—	●	○	—	○					
		Grommet		3-wire (NPN)	5 V, 12 V		H7C	J79C	—	●	—	●	●	●	—			IC circuit
				—			M9NW	—	—	●	●	●	○	—	○			
	3-wire (PNP)			M9PW			—	—	●	●	●	○	—	○				
	—			—			F7PW	●	—	●	○	—	○					
	Water resistant (2-color indication) With diagnostic output (2-color indication)	Grommet		2-wire	12 V		M9BW	—	—	●	●	●	○	—	○	—		
				—	F7BWV		J79W	●	—	●	○	—	○					
H7BA			F7BAV	F7BA	—	—	●	○	—	○								
—			H7NF	—	F79F	●	—	●	○	—	○							
Reed switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	—	A96	—	A76H	●	—	●	—	—	—	IC circuit	Relay, PLC
				—	—	200 V	—	A72	A72H	●	—	●	—	—	—	—		
		Connector		No	2-wire	24 V	12 V	100 V	—	A73	A73H	●	—	●	●		—	
								100 V or less	A93	—	—	●	—	●	—	—	—	
	Diagnostic indication (2-color indication)	Grommet		Yes	—	A90	A80	A80H	●	—	●	—	—	—	IC circuit			
					—	C73C	A73C	—	●	—	●	●	●	—	—			
					24 V or less	C80C	A80C	—	●	—	●	●	●	—	IC circuit			
					—	—	A79W **	—	—	●	—	●	—	—	—			

\* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW  
1 m..... M (Example) M9NWM  
3 m..... L (Example) M9NWL  
5 m..... Z (Example) M9NWZ  
None..... N (Example) H7CN

\* Since there are other applicable auto switches than listed, refer to page 123 for details.  
\* For details about auto switches with pre-wired connector, refer to pages 1328 and 1329.  
\* Band mounting style is not available for D-A9□V/M9□V/M9□WV and D-M9□A(V)L types.  
\*\* "D-A79W" cannot be mounted on bore size ø10 cylinder with air cushion.

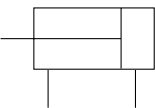
\* Solid state auto switches marked with "O" are produced upon receipt of order.

\* D-A9□/M9□/M9□W/A7□□/A80□/F7□□/J7□□ auto switches are shipped together (not assembled). (However, when D-A9□/M9□/M9□W types are selected, only auto switch mounting brackets are assembled before being shipped.)

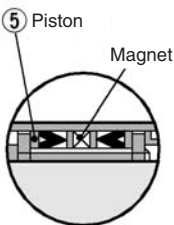
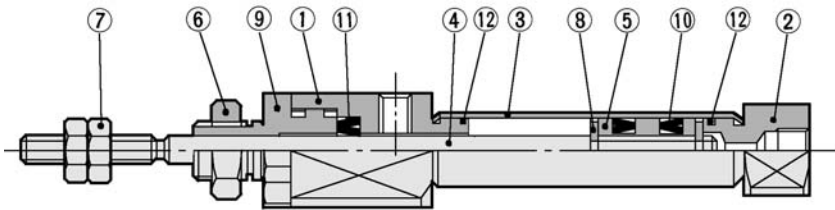
\* When D-A9□(V)/M9□(V)/M9□W(V) types are mounted on a ø10 or ø16 rail, order auto switch mounting brackets separately. Refer to page 123 for details.

# Series CJ2

## Construction (Not able to disassemble)

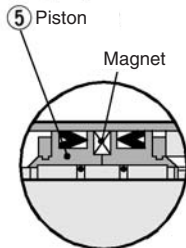
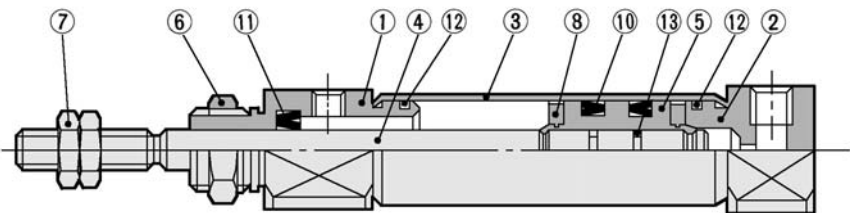


CJ2□6-R



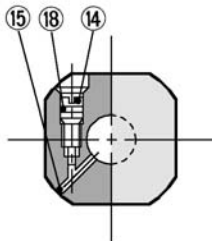
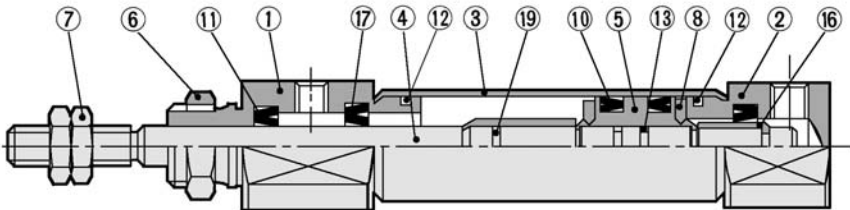
Piston construction when auto switch is mounted.

CJ2□10, CJ2□16



Piston construction when auto switch is mounted.

### With air cushion



### Component Parts

No.	Description	Material	Note
1	Rod cover	Aluminum alloy	Anodized
2	Head cover	Aluminum alloy	Anodized
3	Cylinder tube	Stainless steel	
4	Piston rod	Stainless steel	
5	Piston	Brass	
6	Mounting nut	Brass	Nickel plated
7	Rod end nut	Rolled steel	Nickel plated
8	Bumper	Urethane	
9*	Seal retainer	Aluminum alloy	Anodized
10	Piston seal	NBR	
11	Rod seal	NBR	
12	Tube gasket	NBR	
13	Piston gasket	NBR	

\* Only for ø6

### Dedicated for with Air Cushion Type

No.	Description	Material	Note
14	Cushion needle	Stainless steel	
15	Steel balls	Bearing steel	
16	Cushion ring	Brass	
17	Check seal	NBR	
18	Needle seal	NBR	
19	Cushion ring gasket	NBR	