

# Pin Cylinder: Double Acting, Single Rod

## Series CJP2

ø4, ø6, ø10, ø16

### How to Order

**Standard** CJP2 **F** **10** - **15** **D** - **□** - **□**

**Built-in magnet** CDJP2 **F** **10** - **15** **D** - **□** - **M9BW** **S** - **□**

**With auto switch**  
(Built-in magnet)

**Mounting**

Symbol	Mounting	Standard	Built-in magnet
B	Basic	●	●
F	Flange	●	●
L	Foot	●	●
D	Clevis	●	●
T	Trunnion	●	●

\* Bore size of 4 mm is available with basic mounting only.  
\* Mounting bracket is shipped together (but not assembled).

**Bore size**

Symbol	Bore size
4	4 mm
6	6 mm
10	10 mm
16	16 mm

**Cylinder standard stroke (mm)**

Symbol	Stroke (mm)
ø4	5, 10, 15, (20) Note
ø6	5, 10, 15, 20, 25
ø10, ø16	5, 10, 15, 20, 25, 30, 35, 40

Note) A stroke of 20 is available with a standard product only.

**Double acting**

**Auto switch**

Symbol	Auto switch
Nil	Without auto switch

\* For the applicable auto switch model, refer to the below table.

**Number of auto switches**

Symbol	Number of auto switches
Nil	2 pcs.
S	1 pc.

**Rod end thread**

Symbol	Rod end thread
Nil	With thread
B	Without thread

**Built-in Magnet Cylinder Model**

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch.  
(Example) CDJP2B6-20

CJ1

CJP

CJ2

CM2

CG1

MB

MB1

CA2

CS1

CS2

### Applicable Auto Switches / For detailed auto switch specifications, refer to page 1263 through to 1371.

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	Electrical entry direction		0.5 (Nil)	1 (M)	3 (L)	5 (Z)			
								Perpendicular	In-line							
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC
				3-wire (PNP)				M9PV	M9P	●	●	●	○	○		
	2-wire			M9BV				M9B	●	●	●	○	○	—		
	Diagnostic indication (2-color)			3-wire (NPN)	5 V, 12 V	M9NWW		M9NW	●	●	●	○	○	IC circuit		
				3-wire (PNP)		M9PWW		M9PW	●	●	●	○	○			
				2-wire		M9BWW		M9BW	●	●	●	○	○		—	
Reed switch		—	Grommet	Yes	3-wire (NPN equiv.)	—	5 V	—	A96V**	A96**	●	—	●	—	—	IC circuit
	2-wire				24 V		12 V		100 V	A93V**	A93**	●	—	●	—	—
				5 V, 12 V		100 V or less	A90V**	A90**	●	—	●	—	—	—	IC circuit	

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW  
1 m ..... M M9NWM  
3 m ..... L M9NWL  
5 m ..... Z M9NWZ

\*\* The D-A9□(V) switch is not attachable to ø4.

\* Auto switches marked with "○" are made to order specification.  
\* For details about auto switches with pre-wired connector, refer to pages 1328 to 1329.  
\* Auto switches are shipped together, (but not assembled).

D-□

-X□

Individual  
-X□

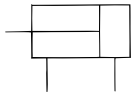
Technical  
data

# Series CJP2



## JIS Symbol

Double acting, Single rod



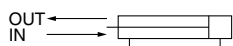
## Made to Order

(For details, refer to pages 1373 to 1498 and 1502.)

Symbol	Specifications
<b>XA</b> □	Change of rod end style
<b>XB6</b>	Heat resistant cylinder (150°C)
<b>XB7</b>	Cold resistant cylinder
<b>XC22</b>	Fluororubber seals
<b>X1666</b>	Interchangeability of clevis and trunnion types

## Theoretical Output

Bore size (mm)	Operating direction	Operating pressure (MPa)		
		0.3	0.5	0.7
<b>4</b>	IN	2.8	4.7	6.6
	OUT	3.8	6.3	8.8
<b>6</b>	IN	6.4	10.6	14.8
	OUT	8.5	14.1	19.8
<b>10</b>	IN	19.8	33.0	46.2
	OUT	23.6	39.3	55.0
<b>16</b>	IN	51.8	86.4	121.0
	OUT	60.3	100.5	140.7



## Specifications

<b>Action</b>	Double acting, Single rod	
<b>Maximum operating pressure</b>	0.7 MPa	
<b>Minimum operating pressure</b>	<b>ø4</b>	0.15 MPa
	<b>ø6</b>	0.12 MPa
	<b>ø10, ø16</b>	0.06 MPa
<b>Proof pressure</b>	1 MPa	
<b>Ambient and fluid temperature</b>	Without auto switch: -10 to 70°C With auto switch: -10 to 60°C (No freezing)	
<b>Lubrication</b>	Not required (Non-lube)	
<b>Stroke length tolerance</b>	+1.0 0	
<b>Rod end style</b>	With thread/Without thread	
<b>Piston speed</b>	10 to 500 mm/s*	
<b>Cushion</b>	Rubber bumper	
<b>Mounting</b> (Note)	Basic, Flange, Foot, Clevis, Trunnion	

Note) Bore size of ø4 is available with basic mounting only. The piston speed for a bore size of ø4 is 50 to 500 mm/s.

## Standard Equipment Accessory

Accessory	Mounting nut (1 pc.)	Rod end nut (2 pcs.) (with thread)	Trunnion (with pin)
Basic	●	●	—
Flange	●	●	—
Foot	●	●	—
Clevis	—	●	—
Trunnion	—	●	●

## Standard Stroke

Bore size (mm)	Stroke (mm)
<b>4</b>	5, 10, 15, 20 (Note)
<b>6</b>	5, 10, 15, 20, 25
<b>10</b>	5, 10, 15, 20, 25, 30, 35, 40
<b>16</b>	5, 10, 15, 20, 25, 30, 35, 40

\* 20 stroke of bore size 4 mm is standard type only.

## Option

Bore size (mm)	6	10	16
<b>Description</b>			
Auto switch	D-A9□(V), D-M9□(V), D-M9□W(V)		
Single knuckle joint	I-P006A	I-P010A	I-P016A
Double knuckle joint (with pin)	Y-P006A	Y-P010A	Y-P016A

## Mounting Bracket Part No.

Bore size (mm)	6	10	16
<b>Bracket</b>			
Flange	CP-F006A	CP-F010A	CP-F016A
Foot	CP-L006A	CP-L010A	CP-L016A
Trunnion (with pin)	CP-T006A	CP-T010A	CP-T016A

## Mass

Stroke (mm)	Mounting	Bore size (mm)			
		4	6	10	16
<b>Basic mass</b>	5	11	16	27	42
	10	13	18	29	46
	15	15	21	32	50
	20	17	23	35	54
	25	—	25	37	58
	30	—	—	40	63
	35	—	—	43	67
	40	—	—	45	71
<b>Bracket mass</b>	Flange	—	5	6	16
	Foot	—	7	9	24
	Clevis	—	2	5	8
	Trunnion (with pin)	—	15	25	70
<b>Additional mass for built-in magnet</b>		2	3	5	7