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

4	4 mm
6	6 mm
10	10 mm
16	16 mm

Cylinder standard 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

Rod end thread

Nil	With thread
B	Without thread

Number of auto switches

Nil	2 pcs.
S	1 pc.

Auto switch

Nil	Without auto switch

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

Made to Order (Refer to page 24.)

Built-in Magnet Cylinder Model

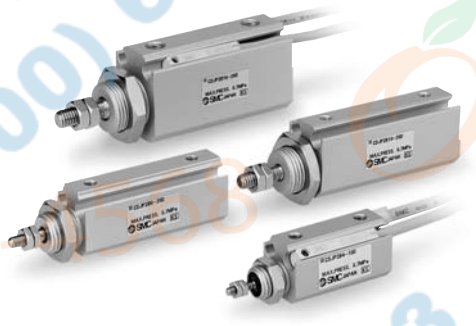
If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch.
(Example) CDJP2B6-20

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

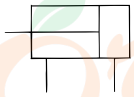
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage DC	Load voltage AC	Auto switch model: Electrical entry direction Perpendicular	Auto switch model: Electrical entry direction In-line	Lead wire length (m)* 0.5 (Nil)	1 (M)	3 (L)	5 (Z)	Pre-wired connector	Applicable load	
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		12 V	M9BV	M9B	●	●	●	○	○	—	
	Diagnostic indication (2-color)			3-wire (NPN)		5 V, 12 V	M9NWV	M9NW	●	●	●	○	○	IC circuit	
				3-wire (PNP)			M9PWV	M9PW	●	●	●	○	○		
				2-wire		12 V	M9BWV	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**	●	—	●	—	—	—	Relay, PLC
			No			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
* 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).

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



JIS Symbol
Double acting, Single rod



Specifications

Action		Double acting, Single rod
Maximum operating pressure		0.7 MPa
Minimum operating pressure	**ø4**	0.15 MPa
	ø6	0.12 MPa
	ø10, ø16	0.06 MPa
Proof pressure		1 MPa
Ambient and fluid temperature		Without auto switch: –10 to 70°C With auto switch: –10 to 60°C (No freezing)
Lubrication		Not required (Non-lube)
Stroke length tolerance		$^{+1.0}_{0}$
Rod end style		With thread/Without thread
Piston speed		10 to 500 mm/s*
Cushion		Rubber bumper
Mounting 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	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)
4	5, 10, 15, 20 Note)
6	5, 10, 15, 20, 25
10	5, 10, 15, 20, 25, 30, 35, 40
16	5, 10, 15, 20, 25, 30, 35, 40

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

Made to Order

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

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

Option

Description / Bore size (mm)	6	10	16
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

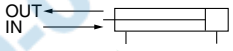
Mounting Bracket Part No.

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

Theoretical Output

(N)

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



Mass

(g)

	Stroke (mm) / Mounting	Bore size (mm) 4	6	10	16
Basic mass	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
Bracket mass	Flange	—	5	6	16
	Foot	—	7	9	24
	Clevis	—	2	5	8
	Trunnion (with pin)	—	15	25	70
Additional mass for built-in magnet		2	3	5	7