


Air Cylinder

CJ1 Series

Double Acting: $\varnothing 4$ /Single Acting, Spring Return: $\varnothing 2.5, \varnothing 4$

Series Variations

Series	Action		Bore size (mm)	Cylinder standard stroke (mm)	Page
Standard CJ1 Series 	Double acting	Single rod	4	5, 10, 15, 20	P.16
	Single acting	Single rod Spring return	2.5 4	5, 10 5, 10, 15, 20	P.18

CJ1

CJP

CJ2

JCM

CM2

CM3

CG1

CG3

JMB

MB

MB1

CA2

CS1

CS2

D-□

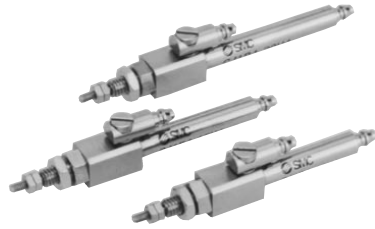
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Technical
Data

Air Cylinder: Double Acting

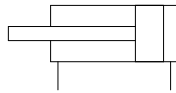
CJ1 Series

Bore Size: $\varnothing 4$



Symbol

Double acting,
Single rod
Without cushion



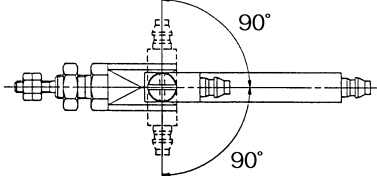
Formation of small series of a double acting cylinder

(A cylinder with $\varnothing 4$ bore has been added as a compact type to the current CJ2: $\varnothing 6$ double acting cylinder.)

The fitting on the rod cover side has been provided with a variable piping direction.

(The piping direction of the fitting on the rod cover side can move freely within a range of $\pm 90^\circ$.)

■ **The piping direction of the fitting on the rod cover side varies within a range of $\pm 90^\circ$.**



⚠ Precautions

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 12 for Actuator and Auto Switch Precautions.

Piping

⚠ Caution

- Do not force to connect piping in such a way that the lateral force could be applied on a cylinder tube. This could cause a cylinder tube to slant and malfunction.

Mounting

⚠ Caution

- Do not install by directly grasping the cylinder tube, as this could cause a tube to deform and malfunction.
- Do not install it by directly grasping the piston rod with a pair of electrician's pliers. Scratches on the piston rod would cause a bearing or rod seal to get damaged, malfunction, and leak air.

How to Order/Double Acting

CJ1B 4 - 5 U4

Mounting type

B Basic type

Bore size

4 4 mm

Applicable tubing

Symbol	Tubing material	Size	
		O.D.	Bore size
U4	Polyurethane	4 mm	2.5 mm
	Soft nylon	4 mm	2.5 mm

Standard stroke (mm)

5, 10, 15, 20

Specifications

Action	Double acting, Single rod
Fluid	Air
Proof pressure	1.05 MPa
Maximum operating pressure	0.7 MPa
Minimum operating pressure	0.2 MPa
Ambient and fluid temperature	-10 to 70°C (No freezing)
Piston speed	50 to 500 mm/s
Cushion	None
Stroke length tolerance	$+0.5$ 0 mm
Mounting	Basic type
Lubrication	Not required (Non-lube)

Model/Bore Size/Standard Stroke

Model	Bore size (mm)	Standard stroke (mm)
CJ1B4	4	5, 10, 15, 20

Applicable Tubing

Tubing type	Material	Size		Tube no.
		O.D.	Bore size	
Metric size	Polyurethane	4 mm	2.5 mm	TU0425
	Soft nylon	4 mm	2.5 mm	TS0425

Theoretical Output

(N)

Bore size (mm)	Rod size (mm)	Action	Piston area (mm ²)	Operating pressure (MPa)					
				0.2	0.3	0.4	0.5	0.6	0.7
4	2	OUT	12.6	2.52	3.78	5.04	6.30	7.56	8.82
		IN	9.4	1.88	2.82	3.76	4.70	5.64	6.58

Weight

(g)

Bore size (mm)	Cylinder stroke (mm)	Weight
4	5	12.0
	10	12.4
	15	12.8
	20	13.2

Moisture Control Tube IDK Series



When operating an actuator with a small diameter and a short stroke at a high frequency, the dew condensation (water droplet) may occur inside the piping depending on the conditions.

Simply connecting the moisture control tube to the actuator will prevent dew condensation from occurring. For details, refer to [the IDK series in the Best Pneumatics No. 6](#).

