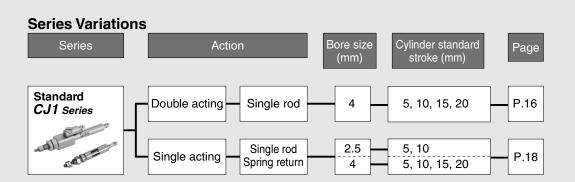
Air Cylinder

CJ1 Series

Double Acting: Ø4/Single Acting, Spring Return: Ø2.5, Ø4



CJ1

CJP

CJ2

JCM

CM2

CM3

CG1

CG3

JMB

MB

MB1

CA2

CS1

CS2

D-□ -X□

Technical Data



Air Cylinder Single Acting: Spring Return

CJ1 Series

Bore Size: ø2.5, ø4



Symbol

Single acting, Spring return



Spring Force

Spring Force		(N)
Bore size (mm)	Retracted side	Extended side
2.5	1.13	0.64
4	3.04	1.47

Weight

Weight (g							
Bore size (mm)	5	10	15	20			
2.5	1.5	2	_	_			
4	3.7	4.6	5.6	6.5			

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

1. 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.

Because this could cause a cylinder tube to tilt and malfunction.

Mounting

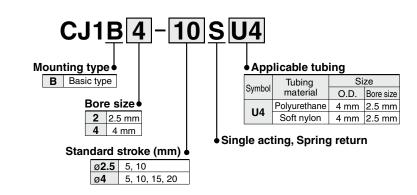
∕!\Caution

1. Do not use it in such a way that a load could be applied to the piston rod during the retraction.

The spring that is built into the cylinder provides only enough force to retract the piston rod. Thus, if a load is applied, the piston rod will not be able to retract to the end of the stroke.

2. Do not install it by directly grasping the cylinder tube, as this could cause a tube to deform and malfunction.

How to Order/Single Acting



Specifications

Action	Single acting, Spring return			
Fluid	Air			
Proof pressure	1.05 MPa			
Maximum operating pressure	0.7 MPa			
Minimum operating pressure	0.3 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)		
CJ1B2	2.5 5, 10			
CJ1B4	4	5, 10, 15, 20		

Applicable Tubing

Tubing type	Material	Size		Modelne
Tubing type	iviateriai	O.D.	Bore size	Model no.
Metric size	Polyurethane	4 mm	2.5 mm	TU0425
WELLIC SIZE	Soft nylon	4 mm	2.5 mm	TS0425

Theoretical Output

meoretica	ıı Output	i						(N)
Bore size	Rod size	Operating	Piston area		Operatin	g pressu	re (MPa)	
(mm)	(mm)	direction	(mm²)	0.3	0.4	0.5	0.6	0.7
2.5	1	OUT	4.9	0.34	0.83	1.32	1.81	2.30
2.5		IN				0.64		
4	2	OUT	12.6	0.74	2.00	3.26	4.52	5.78
4		IN	_			1.47		

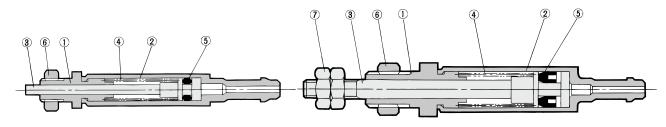


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Construction (Not able to disassemble)

CJ1B2-□SU4

CJ1B4-□SU4



CJ1

CJP

CJ2

JCM

2040

CM2

CM3

CG1

CG3

JMB

MB

MB1

CA2

CS1

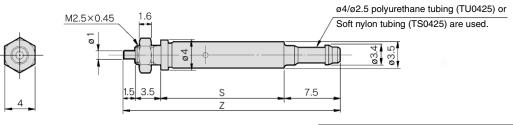
CS2

Component Parts

No.	Description	Material	Note	
1	Rod cover	Brass	Electroless nickel plated	
2	Cylinder tube Brass		Electroless nickel plated	
3 4	Piston rod	Stainless steel		
4	Spring	Stainless steel wire		
5	Piston seal	NBR		
6	Mounting nut	Brass	Black zinc chromated	
7	Rod end nut	Steel	Zinc chromated	

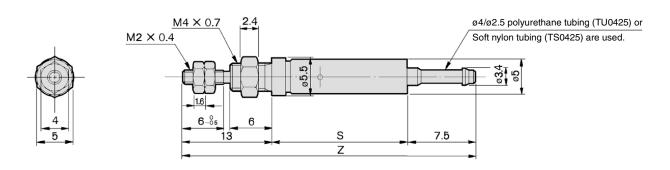
Basic Type

Bore size: Ø2.5/CJ1B2-□SU4



Bore Symbol	,	3	Z		
Bore Stroke	5	10	5	10	
2.5	16.5	25.5	29	38	

Bore size: Ø4/CJ1B4-□SU4



Bore Symbol	S					Z		
size (mm) Stroke	5	10	15	20	5	10	15	20
4	19.5	28.5	37.5	46.5	40	49	58	67

D-□

Technical Data

