Pin Cylinders

CJP2/CJP Series

Ø4, Ø6, Ø10, Ø15, Ø16

2 auto switches can even be mounted on a cylinder with ø4 bore size (5 mm stroke).



Double acting/ CJP2 Series

One-touch fitting can be connected.

(Panel mount type)



Single acting/**CJP Series**



CJ1 CJP

CJ2

JCM

CM2

CM3

CG1

CG3

JMB

MB

MB1

CA2

CS1

CS2

D-□

-**X**□

Technical

Small and Light

Double acting/CJP2 Series

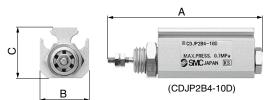
- Full length: Shortened by 6 to 9.5 mm
- Weight: **Reduced by 55** to **65**%

New aluminum body is light weight compared with the current CJP series.

(Compared with the basic model CJP cylinder without auto switch)

Dimension	Unit: mm				
Bore size	Α	В	С		
4	29 + stroke (34 + stroke)	14	14.5		
6	33 + stroke (38 + stroke)	14	16.5		
10	39.5 + stroke (44.5 + stroke)	15	19		
16	43.5 + stroke (48.5 + stroke)	20	24.5		

^{* ():} Dimension for built-in magnet type



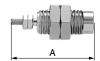
Weight				Unit: g							
Otrolog	Bore size (mm)										
Stroke	4	6	10	16							
5	11	16	27	42							
10	13	18	29	46							
15	15	21	32	50							
20	17	23	35	54							
25	_	25	37	58							
30	_	_	40	63							
35	_	_	43	67							
40			15	71							

Single acting / CJP Series

Panel mount type (CJPB4-5)

Scale: 100%





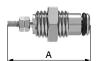
Dimensions

Unit: mm										
Bore size		Α	В	С						
DOIE SIZE	5st	10st	15st		C					
4	23.5	31.5	39.5	10	11.5					
6	27.5	34.5	41.5	12	13.9					
10	32.5	39	46	19	22					
15	37.5	43.5	50	27	31					

Embedded type (CJPS4-5)

Scale: 100%





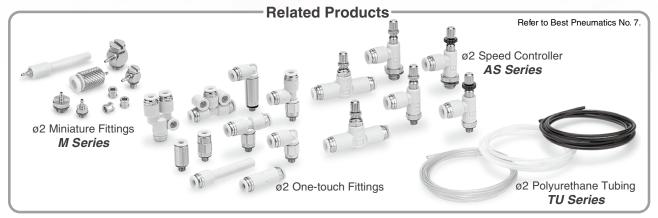
Weight				Unit: g					
Stroke	Bore size (mm)								
(mm)	4	6	10	15					
5	10	10.6	28	75					
10	13	13.1	33	82					
15	15	15.6	38	92					

Variation

	Series	Action	Bore size (mm)	Standard stroke (mm)	Mounting Note 2)		
	CJP2	Double acting, Single rod	4	5, 10, 15 (20) Note 1)	Basic		
			6	5, 10, 15, 20, 25	Flange Foot		
			10	5, 10, 15, 20, 25, 30, 35, 40	Clevis		
			16	5, 10, 15, 20, 25, 30, 35, 40	Trunnion		

Series	Action	Bore size (mm)	Standard stroke (mm)	Mounting		
CJP	Single	4	5, 10, 15	Panel mount		
	acting, Spring return	6	5, 10, 15	type,		
		10	5, 10, 15	Embedded		
		15	5. 10. 15	type		

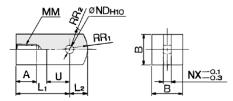
Note 1) A stroke of 20 is available with a standard product only. Note 2) Bore size of ø4 is available with basic mounting only.



CJP2 Series

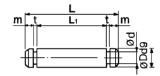
Accessory Bracket Dimensions

Single knuckle joint



Material: Rolled stee											
Part no.	Applicable bore size (mm)	A	В	L ₁	L ₂	ММ	ND _{H10}	NX	R₁	R ₂	U
I-P006A	6	5	6	12	3.5	M3 x 0.5	3+0.040	3	5	4	5
I-P010A	10	6.5	10	16	5.5	M4 x 0.7	5 ^{+0.048}	5	8	6.3	7
I-P016A	16	7	12	19	7	M5 x 0.8	6+0.048	6	10	7.8	9

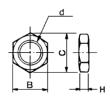
Knuckle pin



Material: Stainless steel Applicable bore size (mm) Retaining* D d9 Part no. d L_1 IY-P006 3^{-0.020} -0.045 2.85 6 9 6.2 0.75 0.65 Clip C-type 3 IY-P010 13.6 4.8 10.2 0.7 10 C-type 5 IY-P015 16 15.8 5.7 12.2 1 C-type 6

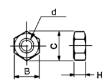
* Included

Mounting nut



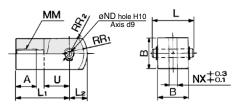
Material: E									
Part no.	Applicable bore size (mm)	d	Н	В	С				
SNPS-004	4	M8 x 1.0	3	10	11.5				
SNP-006	6	M10 x 1.0	3	14	16.2				
SNP-010	10	M12 x 1.0	3	17	19.6				
SNP-015	16	M14 x 1.0	4	19	21.9				

Rod end nut



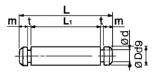
Mat									
Part no.	Applicable bore size (mm)	d	Н	В	С				
NTJ-004	4	M2 x 0.4	1.6	4	4.6				
NTP-006	6	M3 x 0.5	1.8	5.5	6.4				
NTP-010	10	M4 x 0.7	2.4	7	8.1				
NTP-015	16	M5 x 0.8	3.2	8	9.2				

Double knuckle joint



* Knuckle pin	Knuckle pin and retaining ring are included.										Material: Rolled steel				
Part no.	Part no. Applicable bore size (mm) A B L L1 L2 MM NDd9 NDH10							NX	R₁	R2	U				
Y-P006A	6	5	6	9	12	3.5	M3 x 0.5	3 ^{-0.020} -0.045	3+0.040	3	5	4	5		
Y-P010A	10	6.5	10	13.6	16	5.5	M4 x 0.7	5-0.030	5+0.048	5	8	6.3	7		
Y-P016A	16	7	12	15.8	19	7	M5 x 0.8	6-0.030	6+0.048	6	10	7.8	9		

Trunnion pin

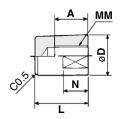


Material: Stainless steel Applicable bore size Retaining* D d9 Part no. ring CT-P006 3^{-0.020} -0.045 2.85 17.6 0.75 0.65 Clip C-type 3 20.4 CT-P010 23.9 4.8 20.5 10 C-type 5 CT-P015 28.1 1 C-type 6

* Included

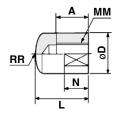
Rod end cap

Flat type: CJ-CF□□□





Round type: CJ-CR□□□





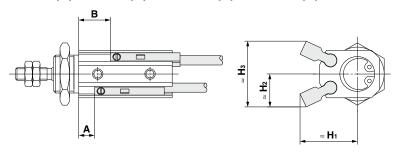
Material: Polyacetal

w
6
8
10

CJP2 Series **Auto Switch Mounting 1**

Auto Switch Proper Mounting Position (Detection at Stroke End) and Its Mounting Height

 $D-A9\square(V)$, $D-M9\square(V)$, $D-M9\square W(V)$, $D-M9\square A(V)$



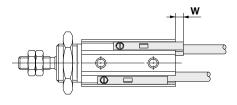
Applicable Auto Switches: D-A9□, D-A9□V

(mm) **B** (When detecting at retracted stroke end position) Bore size Ηı H₂ Нз (When detecting at extended stroke end position) 5 st 10 st 20 st 25 st 30 st 35 st 40 st ø**4** ø6 21 10 20 1 6 11 16 26 13 ø10 6 11 16 21 26 31 36 41 16 9.5 19 ø16 21 31 12 24 11 16 26 36 41 18

Applicable Auto Switches: D-M9□ D-M9□V D-M9□W D-M9□WV D-M9□A D-M9□AV

Applicab												(mm)
Bore size	Α		B (When detecting at retracted stroke end position)									
	(When detecting at extended stroke end position)	5 st	10 st	15 st	20 st	25 st	30 st	35 st	40 st	H ₁	H ₂	Нз
ø 4	4	9	14	19	_	_	_	_	_	14.5	11.5	23
ø 6	5	10	15	20	25	30	_	_	_	15	11.5	23
ø 10	5	10	15	20	25	30	35	40	45	18	10.5	21
ø 16	5	10	15	20	25	30	35	40	45	20	13	26

Note) Only adjust the setting position after confirming the auto switch is properly activated.



Mounting: Basic Flance Foot

widulting. Basic, Flange, Foot (mm)						
Auto switch model		D-M9□V D-M9□WV	D-M9□A	D-M9□AV	D-A96 D-A9□V	D-A90 D-A93
Bore size		W				
ø 4	6	4	8	6	_	_
ø 6	6	4	8	6	2	4.5
ø10	2.5	0.5	4.5	2.5	0	1
ø 16	2.5	0.5	4.5	2.5	0	1

Mounting: Clevis, Trunnion (mm)					
Auto switch model	D-M9□ D-M9□W	D-M9□V D-M9□WV D-A9□ D-A9□V	D-M9□A	D-M9□AV	
Bore size		V	V		
ø 4	_	_	_	_	
ø 6	1	0	3	2	
ø 10	0	0	2	2	
ø 16	0	0	2	2	

^{* 0 (}zero) denotes the auto switch does not protrude from the end surface. Note) Adjust the auto switch after confirming the operating conditions in the actual setting.





CJ1

CJP

CJ2

JCM

CM2

CM₃

CG₁

CG3

JMB

MB

MB1

CA2

CS1

CS2

CJP2 Series Auto Switch Mounting 2

Operating Range

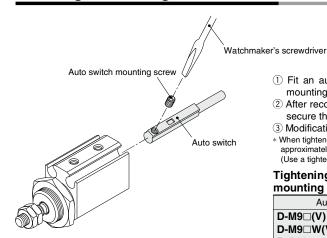
				(mm)	
Auto switch model		Bore size			
Auto Switch model	4	6	10	16	
D-A9□(V)		5	6	7	
D-M9□(V)					
D-M9□W(V)	2.5	2.5	3	3.5	
D-M9□A(V)					

^{*} Since the operating range is provided as a guideline including hysteresis, it cannot be guaranteed (assuming approximately ±30% dispersion). It may vary substantially depending on an ambient environment.

Minimum Stroke for Auto Switch Mounting

		(mm)	
	Applicable auto switch model		
No. of auto switches mounted	D-M9□, D-M9□V	D-M9□W, D-M9□WV D-M9□A, D-M9□A(V) D-A9□, D-A9□V	
1	5	5	
2	5	10	

Mounting and Moving Auto Switches



- ① Fit an auto switch into the auto switch mounting groove to set it roughly to the mounting position for an auto switch.
- ② After reconfirming the detecting position, tighten the auto switch mounting screw* to secure the auto switch.
- 3 Modification of the detecting position should be made in the condition of 1.
- When tightening an auto switch mounting screw, use a watchmaker's screwdriver with a handle of approximately 5 to 6 mm in diameter.
 (Use a tightening torque of approximately 0.10 to 0.20 N·m.)

Tightening torque for auto switch

mounting screw	(N·m)	
Auto switch model	Tightening torque	
D-M9□(V) D-M9□W(V) D-A93	0.05 to 0.15	
D-M9□A(V)	0.05 to 0.10	
D-A9 (V)(Excludes the D-A93)	0.10 to 0.20	

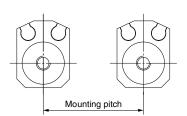
Before handling auto switches, refer to pages 8 to 12 for Auto Switches Precautions.

⚠ Caution

1. If auto switch cylinders are used in parallel, keep the distance between cylinders in accordance with the below chart.

Mounting Pitch (mm)				
Auto switch model	Bore size			
Auto switch model	4	6	10	16
D-A9□(V)	_	20	25	30
D-M9□(V) D-M9□W(V) D-M9□A(V)	25	25	30	35

Use caution not to use them, getting closer than the specified pitch. Otherwise, it may cause auto switch to malfunction.



CJP2 Series

Made to Order: Individual Specifications Please contact SMC for detailed dimensions, specifications and lead times.



1 Clevis / Trunnion Type Mounting Interchangeable

Symbol -X1666

CJP2 series standard model no.

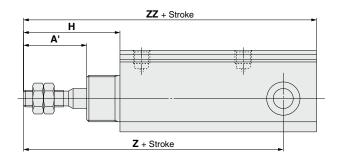
- X1666

Clevis / Trunnion type mounting interchangeable (Former CJP)

Specifications

Applicable series	le series CJP2	
Bore size	ø6, ø10, ø16	
Other specifications	Same as standard type.	

Dimensions



Bore size(mm)	A'	Н	Z	ZZ
6	18.5 (13.5)	26.5 (21.5)	43.5	47.5
10	17	25	49	55.5
16	19	29	53	63

^{*} Dimensions other than above are same as basic type.

CJ1



CJ2

JCM

CM2

СМЗ

CG1

CG3

JMB

MB

MB1

CA2

CS1

CS2





^{*} ø6 is available for both standard and built-in magnet types.

* ø10 and ø16 are available for the standard type (The built-in magnet type is interchangeable.)

^{():} For the built-in magnet type



CJP2 Series Specific Product Precautions

Be sure to read this before handling the products. Please consult with SMC for the use other than the specifications.

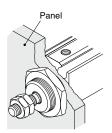
Mounting

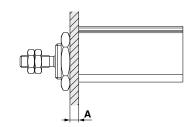
⚠ Caution

Mounting nut maximum tightening torque and panel width

① Do not apply more torque than the maximum torque range when mounting the cylinder or bracket. Also, do not attach a panel with a thickness beyond the specified range.

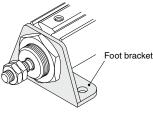
Cylinder bore size	Thread	Maximum tightening torque (N·m)	A dimension maximum value (mm)
ø 4	M8 x 1	6.2	3
ø 6	M10 x 1	12.5	4
ø 10	M12 x 1	21.0	4
ø16	M14 x 1	34.0	5

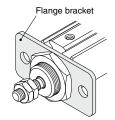




Panel mounting

Panel maximum thickness





Foot mounting

Flange mounting

Piping

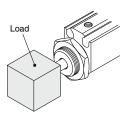
⚠ Caution

The piping port size of CJ2 \square 6 and CJP2 \square 10 is M3 x 0.5. If using piping tube O.D. \varnothing 6, piping is possible on M3 One-touch fittings (applicable tube O.D. \varnothing 4) when used with a reducer (KQ2R06-04A).

* For details of One-touch fittings, refer to Best Pneumatics No. 7.

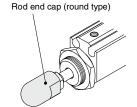
② Do not apply more tightening torque than the below specified range when attaching a load on the rod end, rod end cap, single or double knuckle joint.

Applicable bore size	Thread size	Maximum tightening torque (N·m)
ø 4	M2 x 0.4	0.1
ø 6	M3 x 0.5	0.3
ø 10	M4 x 0.7	0.8
ø 16	M5 x 0.8	1.6



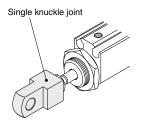
Rod end load mounting

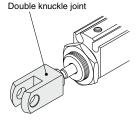




Rod end cap (flat type) mounting

Rod end cap (round type) mounting





Single knuckle joint mounting

Double knuckle joint mounting

Disassembly and Maintenance

∧ Caution

Snap ring installation / removal

- To replace seals or grease the cylinder during maintenance, use an appropriate pair of pliers (tool for installing a C-type retaining ring for hole).
 - After re-installing the cylinder, make sure that the retaining ring is placed securely in the groove before supplying air.
- 2. To remove and install the retaining ring for the knuckle pin or the trunnion pin, use an appropriate pair of pliers (tool for installing a C-type retaining ring for hole). In particular, use a pair of ultra-mini pliers, for removing and installing the retaining rings on the Ø6 cylinder.

Do not disassemble the CJP4 cylinder. Do not loosen or remove the head cover.



Pin Cylinder: Single Acting, Spring Return

CJP Series

Ø4, Ø6, Ø10, Ø15

A short stroke miniature cylinder with a shorter overall length.

The installation space can be significantly reduced because this cylinder can be recessed directly into a machine body or installed on a panel. Thus, the machine can be made more compact.



Embedded type

Panel mount type

Symbol

Single acting, Spring return

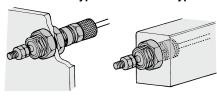




Symbol	Specifications
XC17	Pin cylinder with rod quenched
XC22	Fluororubber seals

Mounting

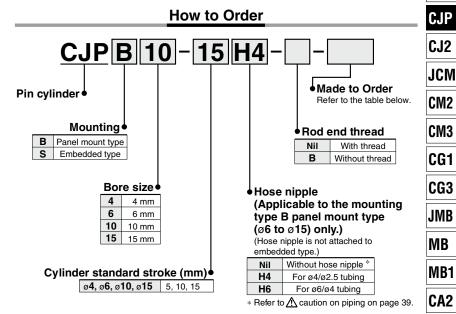
Panel mount type Embedded type



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.

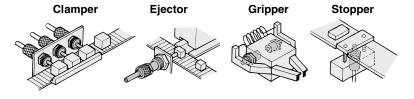


Specifications

Action		Single acting, Spring return			
Maximum operating	pressure	0.7	MPa		
	ø 4	0.3 MPa			
Minimum operating pressure	ø 6	0.2 MPa			
,	ø 10 , ø 15	0.15 MPa			
Proof pressure		1 MPa			
Ambient and fluid te	mperature	−10 to 70°C	-10 to 70°C (No freezing)		
Lubrication		Not required (Non-lube)			
Piston speed		50 to 500 mm/s			
Cushion	Cushion		None		
Stroke length tolerar	ice	+1.0 0			
Rod end type		With thread/Without thread			
Mounting		Panel mount type	Embedded type		
Accessory (Standard equipment)	Standard equipment	Mounting nut (2) Rod end nut (2)*	Mounting nut (1) Gasket (1) Rod end nut (2) *		
	Option	Hose nipple (Except ø4)	_		

- * When rod end is threaded.
- st For details about the hose nipple (accessory), refer to page 39.

Application Examples





CJ1

CS1

CS2



Standard Stroke

Bore size (mm)	Stroke (mm)		
4	5, 10, 15		
6	5, 10, 15		
10	5, 10, 15		
15	5, 10, 15		

Weight

			(g)	
Model	Stroke (mm)			
Model	5	10	15	
CJP□4	10	13	15	
CJP□6	10.6	13.1	15.6	
CJP□10	28	33	38	
CJP□15	72	82	92	

^{*} Weight of hose nipple (4 g) for panel mounting is excluded.

Theoretical Output

				(N)	
Bore size	Operating	Operating pressure (MPa)			
(mm)	direction	0.3	0.5	0.7	
4	OUT	0.97	3.48	6.00	
4	IN	1.0			
6	OUT	4.56 10.2		15.9	
	IN	1.42			
10	OUT	17.6	33.3	49.0	
10	IN	2.45			
15	OUT	42.2	77.5	113	
15	IN		4.41		

Spring Reaction Force

			(IN)
Bore size (mm)	Stroke (mm)	Retracted side	Extended side
4	5, 10, 15	2.80	1.00
6	5, 10, 15	3.92	1.42
10	5, 10, 15	5.98	2.45
15	5, 10, 15	10.80	4.41

^{*} Same spring force for each stroke.

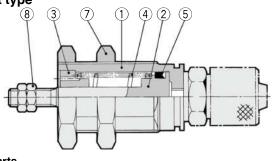
Hose Nipple Dedicated for Panel Mount Type

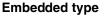
(With fixed orifice)

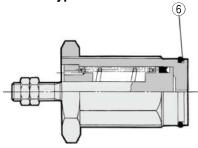
Applicable tubing	Part no.
For ø4/ø2.5 tubing	CJ-5H-4
For ø6/ø4 tubing	CJ-5H-6

Construction (Not able to disassemble.)

Panel mount type







Component Parts

No.	Description	Material	Note	
1	Cover	Brass	Electroless nickel plated	
2	Piston	Stainless steel		
3	Collar	Oil imprognated sintered allow	ø4	Brass + Electroless nickel plated
3	3 Collar	Oil-impregnated sintered alloy	ø6, ø10	Bronze
4	Return spring	Steel wire	Zinc chromated	
5	Piston seal	NBR		
6	Gasket	NBR	Special product (O-ring) embedded type of	
7	Mounting nut	Brass	Electroless nickel plated	
8	Rod end nut	Steel	Zinc chromated	

Dedicated Nut / Part No.

Bore size (mm) Description	4	6	10	15	
Mounting nut	SNPS-004	SNPS-006	SNPS-010	SNPS-015	
Rod end nut	NTJ-004	NTP-006	NTP-010	NTP-015	

Replacement Parts / Gasket

Bore size (mm)	Order no.	Contents	
4	CJPS4-G		
6	CJPS6-G	Above no. 6	
10	CJPS10-G	Above no. ®	
15	CJPS15-G		

^{*} For the plug mounting type

Mounting nut



Material: Brass

Part no.	Applicable bore size (mm)	d	Н	В	С
SNPS-004	4	M8 x 1.0	3	10	11.5
SNPS-006	6	M10 x 1.0	3	12	13.9
SNPS-010	10	M15 x 1.5	4	19	22
SNPS-015	15	M22 x 1.5	5	27	31

Rod end nut



Material: Steel

	Material. Oto				. Ottool
Part no.	Applicable bore size (mm) d		Н	В	С
NTJ-004	4	M2 x 0.4	1.6	4	4.6
NTP-006	6	M3 x 0.5	1.8	5.5	6.4
NTP-010	10	M4 x 0.7	2.4	7	8.1
NTP-015	15	M5 x 0.8	3.2	8	9.2

^{*} Since gaskets (10 pcs./set) do not include a grease pack (10 g), order it separately.

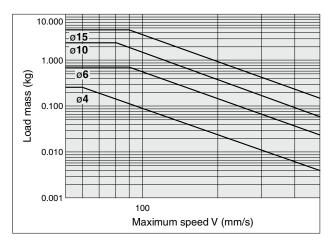
Grease pack part number: GR-S-010 (10g)

Allowable Kinetic Energy

⚠ Caution

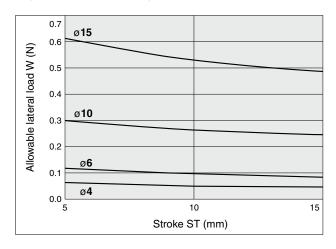
When driving an inertial load, operate a cylinder with kinetic energy within the allowable value. The range in the chart below that is delineated by bold solid lines indicates the relation between load mass and maximum driving speeds.

Bore size (mm)	4	6	10	15
Piston speed (m/s)	0.05 to 0.5			
Allowable kinetic energy (J)	0.5 x 10 ⁻³	3 x 10 ⁻³	8 x 10 ⁻³	19 x 10 ⁻³



Allowable Lateral Load

Strictly observe the limiting range of lateral load on a piston rod. (Refer to the below graph.) If this product is used beyond the limits, it may shorten the machine life or cause damage.



CJ1

CJP

CJ2

JCM

CM2

СМЗ

CG1

CG3

JMB

MB

MB1

CA2

CS₁

CS2

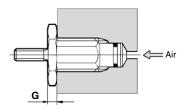
D-□



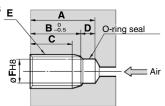
CJP Series

Recommended Mounting Hole Dimensions for Embedded Type

When embedded



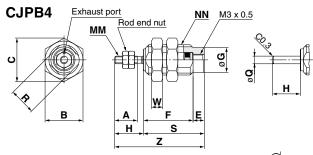
Machining dimensions $\underline{\mathbf{E}}$ for mounting

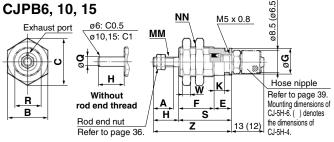


								(mm)		
Bore size (mm)	Stroke	A	В	С	D	E	F	G		
	5	12	8.5	6						
4	10	20	16.5	14	3.5	M8 x 1.0	6.5	3		
	15	28	24.5	22						
	5	16	12.5	10	3.5	3.5				
6	10	23	19.5	17			3.5	M10 x 1.0	8.5	3
	15	30	26.5	24						
	5	17	13.5	10.5						
10	10	23.5	20	17	3.5	M15 x 1.5	12	4		
	15	30.5	27	24						
	5	19	14.5	11.5	4.5					
15	10	25	20.5	17.5		M22 x 1.5	19	5		
	15	31.5	27	24						

Note) E and øF should be machined in a concentric manner.

Dimensions: Panel Mount Type

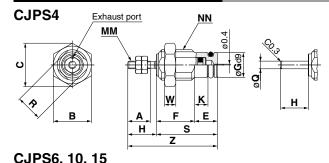




											(mm)	
Bore size	Α	В	С	Е		F		G	н	K	DADA.	
(mm)	A		C	_	5 st	10 st	15 st	G	п		ММ	
4	6	10	11.5	3	13	21	29	6.5	7.5	_	M2 x 0.4	
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3 x 0.5	
10	10	19	22	6	14.5	21	28	12	12	3.5	M4 x 0.7	
15	12	27	31	7	16.5	22.5	29	19	14	4.2	M5 x 0.8	

Bore size	NN	R		S		w		Z		Q
(mm)	ININ	n	5 st	10 st	15 st	vv	5 st	10 st	15 st	Q
4	M8 x 1.0	7	16	24	32	3	23.5	31.5	39.5	2
6	M10 x 1.0	9	18.5	25.5	32.5	3	27.5	34.5	41.5	3
10	M15 x 1.5	13	20.5	27	34	4	32.5	39	46	5
15	M22 x 1.5	20	23.5	29.5	36	5	37.5	43.5	50	6

Dimensions: Embedded Type



00. 00, 10, 10		NINI	
	C0.5 0,15: C1	MM NN	ø0.8
	/ithout end thread Rod end nut Refer to page 36.	A F S Z	K E

											(mm)
Bore size	Α	В	С	Е		F		G	G H	к	ММ
(mm)	_			_	5 st	10 st	15 st	G	٠٠.	ı	
4	6	10	11.5	6	10	18	26	6.5	7.5	3.5	M2 x 0.4
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3 x 0.5
10	10	19	22	6	14.5	21	28	12	12	3.5	M4 x 0.7
15	12	27	31	7	16.5	22.5	29	19	14	4.2	M5 x 0.8

Bore size NN		R		S		w		Z		G	
(mm)	ININ	п	5 st	10 st	15 st	VV	5 st	10 st	15 st	3	
4	M8 x 1.0	7	16	24	32	3	23.5	31.5	39.5	2	
6	M10 x 1.0	9	18.5	25.5	32.5	3	27.5	34.5	41.5	3	
10	M15 x 1.5	13	20.5	27	34	4	32.5	39	46	5	
15	M22 x 1.5	20	23.5	29.5	36	5	37.5	43.5	50	6	



CJP Series Specific Product Precautions

Be sure to read this before handling the products. Please consult with SMC for the use other than the specifications.

Piping

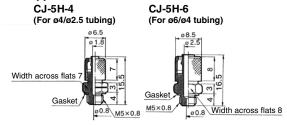
⚠ Caution

The following fittings are recommended for this cylinder connection. However, there may be a case where the piston speed exceeds 500 mm/sec. even with the recommended fittings for this cylinder. Use a speed controller in such cases.

	Cylinder bore size	Applicable bore size	Fitting type	Connection thread	Model
	ø4 ø6 ø10 ø15		One-touch fitting	M3 x 0.5	KQ2□02-M3G
		ø2	Miniature fitting	IVIS X U.S	M-3AU-2
		02	One-touch fitting		KQ2□02-M5N
			Miniature fitting	M5 x 0.8	M-5AU-2
		ø4/2.5	Dedicated hose nipple	IVIO X U.O	CJ-5H-4
	0	ø6/4	(with fixed orifice)		CJ-5H-6

* Please be aware that cylinder speed may slow down on the retracting side when using the above one-touch fittings and miniature fittings with a cylinder bore size of ø15.

Hose nipple



In addition to the above fittings and hose nipples, the below fittings can also be attached to the cylinder. When using the below fittings be sure to provide a speed controller after adjusting it to 500 mm/s or less.

Cylinder bore size	Applicable bore size	Fitting type	Connection thread	Model
~4	3.2		M3 x 0.5	KQ2□23-M3G
ø4	4		IVIS X U.S	KQ2□04-M3G
ø6	3.2	One-touch fitting		KQ2 □23-M5□
ø10	4	intuing	M5 x 0.8	KQ2 □04-M5□
ø15	6			KQ2 □06-M5□

Recommended Speed Controller

Applicable bore size (mm)	Connection thread	Elbow type meter-in	Universal type meter-in	In-line type meter-in	
~0	МЗ	M3 AS1211F-M3-02		AS1002F-02	
ø2	M5	AS1211F-M5E-02A	_	A51002F-02	
0.0	МЗ	AS1211F-M3-23	AS1311F-M3-23	AS1002F-23	
ø3.2	M5	AS1211F-M5E-23A	AS1311F-M5E-23A	A31002F-23	
ø4	МЗ	AS1211F-M3-04	AS1311F-M3-04	AS1002F-04	
W4	M5	AS1211F-M5E-04A	AS1311F-M5E-04A	A31002F-04	
ø6	M5	AS1211F-M5E-06A	AS1311F-M5E-06A	AS1002F-06	

- * For details about one-touch fittings, miniature fittings and speed controllers (applicable tubing O.D. ø2 only), refer to the Best Pneumatics No. 7. Also, for details about speed controllers (applicable tubing O.D. ø3.2 to ø6), refer to the Best Pneumatics No. 7.
- * Refer to the Fittings and Tubing Precautions (Best Pneumatics No. 7) for how to handle one-touch fittings.

Mounting

⚠ Caution

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 may not be able to retract to the end of the stroke.

CJ1

CJP

CJ2

JCM

CM2

CM3

CG1

CG3

JMB

MB

MB1

CA2 CS1

CS2

D-□

Technical Data

