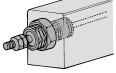


多SMC



Series CJP

Standard Stroke

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

Spring Reaction Force

Spring F	Reaction	Force	(N)
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

Weight

Model	Stroke (mm)					
	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.

Hose Nipple Dedicated for Panel Mounting Style (With fixed orifice)

	<u> </u>
Applicable tubing	Part no.
ø4/for ø2.5 tubing	CJ-5H-4
ø6/for ø4 tubing	CJ-5H-6

Standard Stroke

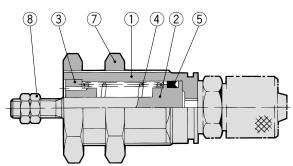
(g)

Standard Stroke (N)										
Bore size	Operating	ating Operating pressure (MF								
(mm)	direction	0.3	0.5	0.7						
	OUT	0.97	3.48	6.00						
4	IN	1.0								
<u> </u>	OUT	4.56	15.9							
6	IN	1.42								
10	OUT	17.6	33.3	49.0						
10	IN									
15	OUT	42.2	77.5	113						
	IN	4.41								

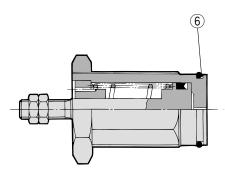
* Same spring force for each stroke.

Construction (Not able to disassemble.)

Panel mounting style



Plug mounting style



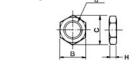
Component Parts

-	-				
No.	Description	Material	Note		
1	Cover	Brass	Electroless nickel plated		
2	Piston	Stainless steel			
0	③ Collar	Oil imprograted sintered allow	ø4	Brass + Electroless nickel plated	
3	Collar	Oil-impregnated sintered alloy	ø6, ø10	Phosphor bronze	
(4)	Return spring	Piano wire		Zinc chromated	
(5)	Piston seal	NBR			
6	Gasket	NBR	Special product (O-ring) for embedded style		
$\overline{\mathcal{O}}$	Mounting nut	Brass	Electroless nickel plated		
8	Rod end nut	Steel		Nickel plated	

Dedicated Nut Part No.

Bore size (mm)	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

Mounting nut



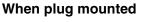
	Ма	terial:	Brass		
Part No.	Applicable bore size (mm)	d	н	в	с
SNPS-004	4	M8 x 1.0	3	10	11.5
SNPS-006	6	M10 x 1.0	3	12	13.9
SNPS-010	10	M15 x 1.5	4	19	22
SNPS-015	15	M22 x 1.5	5	27	31

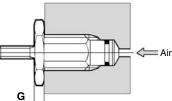
Rod end nut

	Material: Steel										
Part No.	Applicable bore size (mm)	d	н	в	с						
NTJ-004	4	M2	1.6	4	4.6						
NTP-006	6	М3	1.8	5.5	6.4						
NTP-010	10	M4	2.4	7	8.1						
NTP-015	15	M5	3.2	8	9.2						

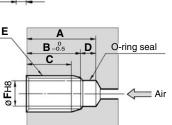


Recommended Mounting Hole Dimensions for Plug Mounting Style





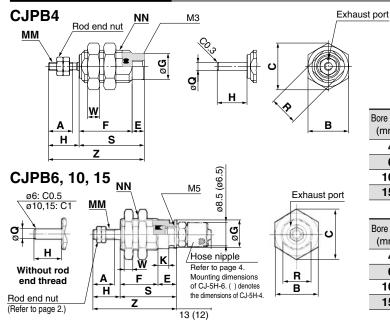
Machining dimensions E for mounting



Bore size (mm)	Stroke	Α	в	с	D	E	F	G											
	5	12	8.5	6															
4	10	20	16.5	14	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	M8 x 1.0	6.5	3
	15	28	24.5	22															
	5	16	12.5	10															
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	3.5 M15 x 1.5	12	4											
	15	30.5	27	24															
	5	19	14.5	11.5															
15	10	25	20.5	17.5	4.5	M22 x 1.5	19	5											
	15	31.5	27	24															

Note) E and $\ensuremath{\ensuremath{\mathsf{P}}}\xspace$ should be machined in a concentric manner.

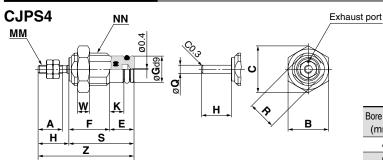
Panel Mounting Style

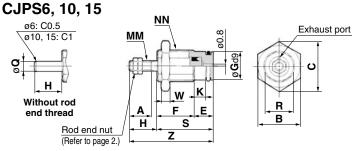


Bore size		Б	с	Е		F		<u> </u>		ĸ	мм
(mm)	A	В	C		5 st	10 st	15 st	G	н	r	IVIIVI
4	6	10	11.5	3	13	21	29	6.5	7.5	—	M2
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3
10	10	19	22	6	14.5	21	28	12	12	3.5	M4
15	12	27	31	7	16.5	22.5	29	19	14	4.2	M5

Bore size				S		w		Ζ		
(mm)	NN	R	5 st	5 st 10 st 15 st W	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

Plug Mounting Style





Bore size	•	в	с	Е		F		<u> </u>	н	к	ММ
(mm)	A	Р			5 st	10 st	15 st	G			
4	6	10	11.5	6	10	18	26	6.5	7.5	3.5	M2
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3
10	10	19	22	6	14.5	21	28	12	12	3.5	M4
15	12	27	31	7	16.5	22.5	29	19	14	4.2	M5

Bore size	Bore size NN		S			w	Z			Q
(mm)		R	5 st	10 st	15 st	vv	5 st	10 st	15 st	G
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

Series CJP

Specific Product Precautions

Be sure to read before handling. Contact SMC if you are operating your product at different specifications.

Piping

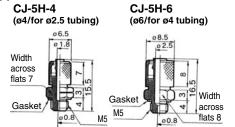
ACaution

The fittings described below are recommended for piping with this cylinder.

Bore size	Applicable bore size	Fitting type	Connection thread	Model
ø4		One-touch fitting	M3	KJ □02-M 3
04	ø2	Miniature fitting	IVIS	M-3AU-2
	02 04/2.5 06/4	One-touch fitting		KJ □02-M 5
ø6 ø10 ø15		Miniature fitting	M5	M-5AU-2
		Dedicated hose nipple	IVID	CJ-5H-4
		(With a fixed orifice)		CJ-5H-6

Be aware of the cylinder speed at the return side since it may be delayed when the above one-touch fittings or miniature fittings with a bore size greater than $\emptyset 15$ are used.

Hose nipple



This cylinder can also accept the fittings described below. When these fittings are used, please make sure to mount a speed controller that is set to control the speed to less than 500mm/s.

Bore size	Applicable bore size	Fitting type	Connection thread	Model
~1	3.2		МЗ	KJ □23-M 3
ø4	4	One touch	1013	KJ □04-M 3
ø6 ø10 ø15	3.2	One-touch		KJ□23-M5
	4	fitting	M5	KJ □04-M 5
	6			KJ □06-M 5

Recommended speed controllers

AS1001F-02
AS1001F-02
AS1001F-23
AS1001F-23
AS1001F-04
AS1001F-04
AS1001F-06
33446

* Please refer to SMC catalog no. ES50-25 (after version B) for details of one-touch fittings, miniature fittings and speed controllers (applies only to tubing of O.D. Ø2). Please refer to SMC's Best Pneumatics catalogue for recommended speed controller details (applicable tubing O.D.: Ø3.2 to Ø6)

Mounting

ACaution

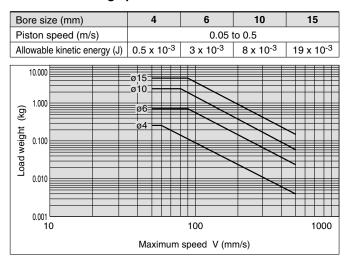
Do not use the cylinder in such a way that a load could be applied to the piston rod during the retraction.

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.

Allowable Kinetic Energy

▲ Caution

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



Selection

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

