

New Products

Pin Clamp Cylinder PCC Series



CKD (China) Corporation C-CC-1280A

Pin Clamp Cylinder PCC Series

Available to be clamped in 4 directions







R



Strong magnetic field proof

- Prevent welding spatter
- High precision location

4





Maintain clamp position regardless the thickness of the workpiece

· Prevents workpiece from falling off in emergencies.

Integrate design of locating and clamping, helps to minimize the size of fixture.

Varieties of pin sizes and installing types can be choosed from.





Pin clamp cylinder





Comm specifications

Descriptions		PCC/PCC-Q
Bore size	mm	50
Actuation		Double acting type
Working fluid		Compressed air
Max. working pressure	MPa	0.4(under 130)、0.5(above 145)
Min. working pressure	MPa	0.2
Proof pressure	MPa	1.0
Ambient temperature	°C	-10 to 60
Port size		Rc1/4
Working piston speed	mm/s	50 to 300
Cushion		None
Lubrication		Not required

Theoretic	eoretical clamp force Nni							
Pressure	MPa	0.2	0.3	0.4	0.5			
Clamp force	N	329	494	659	824			

Clamp specifications

Descriptions		PCC · PCC-Q		
Clamp stroko	mm	With shim	Without shim	
Clamp Stroke		10~12	12	
Clearance stroke	mm	Į	5	
Locating pin shape		Round	Diamond shaped	
Clamp lever		Single	e claw	

Position lock specification

Descriptions		PCC-Q
Locking type		Round slit
Lock direction		Lock when clamping
		(cylinder extending direction)
Locking force	Ν	943
Min. working pressure	MPa	0.25
Max. working pressure	MPa	0.5
Port size		Rc1/4
Lubrication		Not permitted

Weight

Weight									Unit: kg
Loooting his diameter	Standa	ard type	Position Ic	ocking type		Standa	rd type	Position locking type	
Locating pin diameter	L	Н	L	Н	Locating pin diameter	L	н	L	Н
12.5	2.0	2.1	2.4	2.5	17.9	2.0	2.1	2.4	2.5
12.7	2.0	2.1	2.4	2.5	18.0	2.0	2.1	2.4	2.5
12.8	2.0	2.1	2.4	2.5	19.5	2.0	2.1	2.4	2.5
12.9	2.0	2.1	2.4	2.5	19.7	2.0	2.1	2.4	2.5
13.0	2.0	2.1	2.4	2.5	19.8	2.0	2.1	2.4	2.5
14.5	2.0	2.1	2.4	2.5	19.9	2.0	2.1	2.4	2.5
14.7	2.0	2.1	2.4	2.5	20.0	2.0	2.1	2.4	2.5
14.8	2.0	2.1	2.4	2.5	24.5	2.1	2.3	2.5	2.6
14.9	2.0	2.1	2.4	2.5	24.7	2.1	2.3	2.5	2.6
15.0	2.0	2.1	2.4	2.5	24.8	2.1	2.3	2.5	2.6
15.5	2.0	2.1	2.4	2.5	24.9	2.1	2.3	2.5	2.6
15.7	2.0	2.1	2.4	2.5	25.0	2.1	2.3	2.5	2.6
15.8	2.0	2.1	2.4	2.5	29.5	2.1	2.3	2.5	2.6
15.9	2.0	2.1	2.4	2.5	29.7	2.1	2.3	2.5	2.6
16.0	2.0	2.1	2.4	2.5	29.8	2.1	2.3	2.5	2.6
17.5	2.0	2.1	2.4	2.5	29.9	2.1	2.3	2.5	2.6
17.7	2.0	2.1	2.4	2.5	30.0	2.1	2.3	2.5	2.6
17.8	2.0	2.1	2.4	2.5					

Internal structure and parts list (PCC-C1, PCC-C2)









Spatter cover (SP1)

No.	Parts name	Material	Notes	No.	Parts name	Material	Notes
1	Cover	Aluminum alloy	Anodic oxidation	16	Guide	Aluminum alloy	
2	Piston packing	Nitrile rubber		17	Hinge pin (2)	Steel	
3	Piston	Aluminum alloy		18	Shim 1	Stainless steel	
4	Piston magnet	Plastic magnet		19	Shim 0.5	Stainless steel	
5	Spacer	Aluminum alloy		20	Conical spring washer	Steel	
6	Body	Aluminum alloy	Anodic oxidation	21	Hexagon socket head cap bolt	Steel	
7	Rod bushing gasket	Nitrile rubber		22	Spacer	Steel	Quenching + Galvanization
8	Rod packing	Nitrile rubber		23	Clamp lever	Steel	Blackening
9	Coil scraper	Phosphor bronze		24	Locating pin	Steel	Quenching
10	Rod bushing	Special aluminum		25	Plain washer	Steel	
11	C type stop ring	Steel		26	Conical spring washer	Steel	
12	Piston rod	Steel		27	Hexagon socket head cap bolt	Steel	
13	Plug	Steel		28	Hexagon socket head cap bolt	Steel	
14	Hinge pin (2)	Steel		29	Spatter cover	Copper alloy	
15	Split pin	Steel					

How to order



•: φ 8H7 Ο: M10

Installation side

0

CKD

0

How to order



Installation side

0

0

2 installation surfaces have the same shape

6

How to order



2 installation surfaces have the same shape

0

CKD

How to order



Installation side

0

0

How to order



Installation side

2 installation surfaces have the same shape

0

0

0

Ο

CKD

How to order



O: M10

0

0

0

Ο

Installation side

How to order



How to order



Installation side

0

0

0

Ο

Dimensions

<PCC-C1(S132)>









<PCC-QC1(S136)>



Symbol	Common dimensions (mm)									
Locating pin diameter (mm)	А	В	С	D	E	F	G	Н	J	K
φ12.5	12.5	30	4.5	5	9.5	30	12	6	190.5	229.5
φ12.7	12.7	30	4.5	5	9.5	30	12	6	190.5	229.5
<i>φ</i> 12.8	12.8	30	4.5	5	9.5	30	12	6	190.5	229.5
<i>φ</i> 12.9	12.9	30	4.5	5	9.5	30	12	6	190.5	229.5
<i>φ</i> 13.0	13.0	30	4.5	5	10	30	12	6	190.5	229.5
<i>φ</i> 14.5	14.5	30	6	6	11	30	12	7	190.5	229.5
<i>φ</i> 14.7	14.7	30	6	6	11	30	12	7	190.5	229.5
<i>φ</i> 14.8	14.8	30	6	6	11	30	12	7	190.5	229.5
<i>φ</i> 14.9	14.9	30	6	6	11	30	12	7	190.5	229.5
<i>φ</i> 15.0	15.0	30	6	6	11.5	30	12	7	190.5	229.5
<i>φ</i> 15.5	15.5	30	6	6	11.5	30	12	7	190.5	229.5
φ15.7	15.7	30	6	6	11.5	30	12	7	190.5	229.5
<i>φ</i> 15.8	15.8	30	6	6	11.5	30	12	7	190.5	229.5
<i>φ</i> 15.9	15.9	30	6	6	11.5	30	12	7	190.5	229.5
<i>φ</i> 16.0	16.0	30	6	6.5	12	30	12	7	190.5	229.5
φ17.5	17.5	30	6	7	13	35	12	8	195.5	234.5
φ17.7	17.7	30	6	7	13	35	12	8	195.5	234.5
φ17.8	17.8	30	6	7	13	35	12	8	195.5	234.5
φ17.9	17.9	30	6	7	13	35	12	8	195.5	234.5
<i>φ</i> 18.0	18.0	30	6	7	13.5	35	12	8	195.5	234.5
<i>φ</i> 19.5	19.5	30	6	8	14	35	12	10	195.5	234.5
<i>φ</i> 19.7	19.7	30	6	8	14	35	12	10	195.5	234.5
<i>φ</i> 19.8	19.8	30	6	8	14	35	12	10	195.5	234.5
<i>φ</i> 19.9	19.9	30	6	8	14	35	12	10	195.5	234.5
φ20.0	20.0	30	6	8	14.5	35	12	10	195.5	234.5
φ24.5	24.5	40	6	10	16.5	35	11.5	12	195.5	234.5
φ24.7	24.7	40	6	10	16.5	35	11.5	12	195.5	234.5
<i>φ</i> 24.8	24.8	40	6	10	16.5	35	11.5	12	195.5	234.5
<i>φ</i> 24.9	24.9	40	6	10	16.5	35	11.5	12	195.5	234.5
φ25.0	25.0	40	6	10	17	35	11.5	12	195.5	234.5
φ29.5	29.5	40	6	12	19.5	35	11.5	14	195.5	234.5
φ29.7	29.7	40	6	12	19.5	35	11.5	14	195.5	234.5
φ29.8	29.8	40	6	12	19.5	35	11.5	14	195.5	234.5
<i>φ</i> 29.9	29.9	40	6	12	19.5	35	11.5	14	195.5	234.5
<i>φ</i> 30.0	30.0	40	6	12.5	20	35	11.5	15	195.5	234.5

Note: The dimensions of <PCC-C1(S132)> and <PCC-QC1(S136)> is showed in the picture on the left.

Dimensions





<PCC-QC2(S138)>



Symbol		Common dimensions (mm)								
Locating pain diameter (mm)	А	В	С	D	E	F	G	Н	J	К
φ12.5	12.5	30	4.5	5	9.5	30	12	6	190.5	229.5
φ12.7	12.7	30	4.5	5	9.5	30	12	6	190.5	229.5
<i>φ</i> 12.8	12.8	30	4.5	5	9.5	30	12	6	190.5	229.5
<i>φ</i> 12.9	12.9	30	4.5	5	9.5	30	12	6	190.5	229.5
<i>φ</i> 13.0	13.0	30	4.5	5	10	30	12	6	190.5	229.5
<i>φ</i> 14.5	14.5	30	6	6	11	30	12	7	190.5	229.5
φ14.7	14.7	30	6	6	11	30	12	7	190.5	229.5
<i>φ</i> 14.8	14.8	30	6	6	11	30	12	7	190.5	229.5
<i>φ</i> 14.9	14.9	30	6	6	11	30	12	7	190.5	229.5
<i>φ</i> 15.0	15.0	30	6	6	11.5	30	12	7	190.5	229.5
<i>φ</i> 15.5	15.5	30	6	6	11.5	30	12	7	190.5	229.5
φ15.7	15.7	30	6	6	11.5	30	12	7	190.5	229.5
<i>φ</i> 15.8	15.8	30	6	6	11.5	30	12	7	190.5	229.5
<i>φ</i> 15.9	15.9	30	6	6	11.5	30	12	7	190.5	229.5
<i>φ</i> 16.0	16.0	30	6	6.5	12	30	12	7	190.5	229.5
φ17.5	17.5	30	6	7	13	35	12	8	195.5	234.5
φ17.7	17.7	30	6	7	13	35	12	8	195.5	234.5
φ17.8	17.8	30	6	7	13	35	12	8	195.5	234.5
φ17.9	17.9	30	6	7	13	35	12	8	195.5	234.5
<i>φ</i> 18.0	18.0	30	6	7	13.5	35	12	8	195.5	234.5
<i>φ</i> 19.5	19.5	30	6	8	14	35	12	10	195.5	234.5
φ19.7	19.7	30	6	8	14	35	12	10	195.5	234.5
<i>φ</i> 19.8	19.8	30	6	8	14	35	12	10	195.5	234.5
<i>φ</i> 19.9	19.9	30	6	8	14	35	12	10	195.5	234.5
φ20.0	20.0	30	6	8	14.5	35	12	10	195.5	234.5
φ24.5	24.5	40	6	10	16.5	35	11.5	12	195.5	234.5
φ24.7	24.7	40	6	10	16.5	35	11.5	12	195.5	234.5
<i>φ</i> 24.8	24.8	40	6	10	16.5	35	11.5	12	195.5	234.5
<i>φ</i> 24.9	24.9	40	6	10	16.5	35	11.5	12	195.5	234.5
φ25.0	25.0	40	6	10	17	35	11.5	12	195.5	234.5
φ29.5	29.5	40	6	12	19.5	35	11.5	14	195.5	234.5
φ29.7	29.7	40	6	12	19.5	35	11.5	14	195.5	234.5
<i>φ</i> 29.8	29.8	40	6	12	19.5	35	11.5	14	195.5	234.5
<i>φ</i> 29.9	29.9	40	6	12	19.5	35	11.5	14	195.5	234.5
<i>φ</i> 30.0	30.0	40	6	12	20	35	11.5	15	195.5	234.5

Note: The dimensions of <PCC-C2(S134)> and <PCC-QC2(S138)> is showed in the picture on the left.

Dimensions







 $(\phi A)_{0.05}^{0}$



<PCC-QC1(S137)>



Symbol		Common dimensions (mm)								
Locating pin diameter (mm)	А	В	С	D	E	F	G	Н	J	K
<i>φ</i> 12.5	12.5	30	4.5	5	9.5	30	42	6	220.5	259.5
φ12.7	12.7	30	4.5	5	9.5	30	42	6	220.5	259.5
<i>φ</i> 12.8	12.8	30	4.5	5	9.5	30	42	6	220.5	259.5
<i>φ</i> 12.9	12.9	30	4.5	5	9.5	30	42	6	220.5	259.5
<i>φ</i> 13.0	13.0	30	4.5	5	10	30	42	6	220.5	259.5
<i>φ</i> 14.5	14.5	30	6	6	11	30	42	7	220.5	259.5
φ14.7	14.7	30	6	6	11	30	42	7	220.5	259.5
<i>φ</i> 14.8	14.8	30	6	6	11	30	42	7	220.5	259.5
<i>φ</i> 14.9	14.9	30	6	6	11	30	42	7	220.5	259.5
<i>φ</i> 15.0	15.0	30	6	6	11.5	30	42	7	220.5	259.5
<i>φ</i> 15.5	15.5	30	6	6	11.5	30	42	7	220.5	259.5
φ15.7	15.7	30	6	6	11.5	30	42	7	220.5	259.5
<i>φ</i> 15.8	15.8	30	6	6	11.5	30	42	7	220.5	259.5
<i>φ</i> 15.9	15.9	30	6	6	11.5	30	42	7	220.5	259.5
<i>φ</i> 16.0	16.0	30	6	6.5	12	30	42	7	220.5	259.5
φ17.5	17.5	30	6	7	13	35	42	8	225.5	264.5
φ17.7	17.7	30	6	7	13	35	42	8	225.5	264.5
φ17.8	17.8	30	6	7	13	35	42	8	225.5	264.5
<i>φ</i> 17.9	17.9	30	6	7	13	35	42	8	225.5	264.5
<i>φ</i> 18.0	18.0	30	6	7	13.5	35	42	8	225.5	264.5
<i>φ</i> 19.5	19.5	30	6	8	14	35	42	10	225.5	264.5
<i>φ</i> 19.7	19.7	30	6	8	14	35	42	10	225.5	264.5
<i>φ</i> 19.8	19.8	30	6	8	14	35	42	10	225.5	264.5
<i>φ</i> 19.9	19.9	30	6	8	14	35	42	10	225.5	264.5
<i>φ</i> 20.0	20.0	30	6	8	14.5	35	42	10	225.5	264.5
φ24.5	24.5	40	6	10	16.5	35	41.5	12	225.5	264.5
φ24.7	24.7	40	6	10	16.5	35	41.5	12	225.5	264.5
<i>φ</i> 24.8	24.8	40	6	10	16.5	35	41.5	12	225.5	264.5
<i>φ</i> 24.9	24.9	40	6	10	16.5	35	41.5	12	225.5	264.5
φ25.0	25.0	40	6	10	17	35	41.5	12	225.5	264.5
<i>φ</i> 29.5	29.5	40	6	12	19.5	35	41.5	14	225.5	264.5
φ29.7	29.7	40	6	12	19.5	35	41.5	14	225.5	264.5
<i>φ</i> 29.8	29.8	40	6	12	19.5	35	41.5	14	225.5	264.5
<i>φ</i> 29.9	29.9	40	6	12	19.5	35	41.5	14	225.5	264.5
<i>φ</i> 30.0	30.0	40	6	12.5	20	35	41.5	15	225.5	264.5

Note: The dimensions of <PCC-C1(S133)> and <PCC-QC1(S137)> is showed in the picture on the left.

Dimensions







<PCC-QC2(S139)>



Symbol	Common dimensions (mm)									
Locating pin diameter (mm)	А	В	С	D	E	F	G	Н	J	K
φ12.5	12.5	30	4.5	5	9.5	30	42	6	220.5	259.5
φ12.7	12.7	30	4.5	5	9.5	30	42	6	220.5	259.5
φ12.8	12.8	30	4.5	5	9.5	30	42	6	220.5	259.5
φ12.9	12.9	30	4.5	5	9.5	30	42	6	220.5	259.5
<i>φ</i> 13.0	13.0	30	4.5	5	10	30	42	6	220.5	259.5
φ14.5	14.5	30	6	6	11	30	42	7	220.5	259.5
<i>φ</i> 14.7	14.7	30	6	6	11	30	42	7	220.5	259.5
<i>φ</i> 14.8	14.8	30	6	6	11	30	42	7	220.5	259.5
<i>φ</i> 14.9	14.9	30	6	6	11	30	42	7	220.5	259.5
<i>φ</i> 15.0	15.0	30	6	6	11.5	30	42	7	220.5	259.5
<i>φ</i> 15.5	15.5	30	6	6	11.5	30	42	7	220.5	259.5
<i>φ</i> 15.7	15.7	30	6	6	11.5	30	42	7	220.5	259.5
<i>φ</i> 15.8	15.8	30	6	6	11.5	30	42	7	220.5	259.5
<i>φ</i> 15.9	15.9	30	6	6	11.5	30	42	7	220.5	259.5
<i>φ</i> 16.0	16.0	30	6	6.5	12	30	42	7	220.5	259.5
φ17.5	17.5	30	6	7	13	35	42	8	225.5	264.5
φ17.7	17.7	30	6	7	13	35	42	8	225.5	264.5
φ17.8	17.8	30	6	7	13	35	42	8	225.5	264.5
<i>φ</i> 17.9	17.9	30	6	7	13	35	42	8	225.5	264.5
<i>φ</i> 18.0	18.0	30	6	7	13.5	35	42	8	225.5	264.5
<i>φ</i> 19.5	19.5	30	6	8	14	35	42	10	225.5	264.5
φ19.7	19.7	30	6	8	14	35	42	10	225.5	264.5
<i>φ</i> 19.8	19.8	30	6	8	14	35	42	10	225.5	264.5
<i>φ</i> 19.9	19.9	30	6	8	14	35	42	10	225.5	264.5
<i>φ</i> 20.0	20.0	30	6	8	14.5	35	42	10	225.5	264.5
φ24.5	24.5	40	6	10	16.5	35	41.5	12	225.5	264.5
φ24.7	24.7	40	6	10	16.5	35	41.5	12	225.5	264.5
φ24.8	24.8	40	6	10	16.5	35	41.5	12	225.5	264.5
φ24.9	24.9	40	6	10	16.5	35	41.5	12	225.5	264.5
φ25.0	25.0	40	6	10	17	35	41.5	12	225.5	264.5
<i>φ</i> 29.5	29.5	40	6	12	19.5	35	41.5	14	225.5	264.5
φ29.7	29.7	40	6	12	19.5	35	41.5	14	225.5	264.5
<i>φ</i> 29.8	29.8	40	6	12	19.5	35	41.5	14	225.5	264.5
<i>φ</i> 29.9	29.9	40	6	12	19.5	35	41.5	14	225.5	264.5
<i>φ</i> 30.0	30.0	40	6	12.5	20	35	41.5	15	225.5	264.5

Note: The dimensions of <PCC-C2(S135)> and <PCC-QC2(S139)> is showed in the picture on the left.

PCC-C1 Custom specification order sheet

1. Model no.

2. Dimensions (Please fill in the blank)









PCC-C2 Custom specification order sheet

1. Model no.

PCC-C2

2. Dimensions (Please fill in the blank)









Other related products

Standard clamp cylinder

Minimal needle projection for easier adjustment and safety. Spatter adherence prevention type (G1/G4) sreies is also available.



Clamp cylinder for automobile frame welding

Space saving & high chucking power fixture are specifical for automobile

frame welding lines Chucking power 15000N (The specification is under the test condition in our company)







Compressed clamp cylinder, most suitable for updating of original model

Front clevis bracket is attached to UFCD series. Space saving clamp cylinder helps to reduce most of its thickness.

Suitable to be installed in narrow space or lining up multiple units to use. Position locking is available to be ordered.



CKD

Compressed clamp cylinder CACF Series







In order to use this product safely

please make sure you have read it before using the product.

When using this products for designing and producing devices, clients are obliged to check and ensure the safety of device's mechanism, pneumatic control circuit or fluid control circuit as well as the whole system that carries out electric control over them. And on that basis, produce safe devices.

In order to safely use the products of our company, it is of great importance to pay attention to selection, usage, process and appropriate maintenance management of products.

In order to ensure the safety of the devices, please make sure to comply with the warnings, matters needing attention. In addition, please produce safe devices after checking and on basis of being able to guarantee the safety of the devices.

🛕 Warnings

1 This product is designed and produced for the devices and components used for common industrial machinery. Therefore, please assign staff possessing related professional knowledge and experience to operate.

2 Please make sure you use the product within its specifications.

You cannot use the product beyond its specifications. In addition, please never make any transformation and reprocessing to this product. Moreover, the applied range of this product is the devices or components used for common industrial machinery. Therefore, please don't use it outdoors or in the following conditions and environment.

(If you have consulted our company, and have been familiar with the product specifications before using it, you can use it by taking necessary safety measures, thus helping avoid dangers while failures occur.)

 Used for nuclear energy, railway, aviation, shipping, vehicles, medical equipment, and components and devices which directly contact beverage or food, and purposes with safety requirements like recreational facilities, emergent short circuit, stamping machinery, brake circuit, safety measures, etc.
 Used in the situations where great influence may be imposed upon personnel or property, especially for usages with a high security requirement.

3 Security in respect of device design and management, please comply with the industry standard, laws and regulations, etc. ISO4414, JIS B 8370 (General rule for pneumatic systems)

JFPS2008 (Principles for pneumatic cylinder selection and use)

High Pressure Gas Safety Act, Labor Safety and Health Law and other relevant security criteria, industry standards, laws and regulations, etc.

- Before ensuring safety, please never do any operation and piping of this product, or disassembly of the product.
 (1) Before checking or doing maintenance to machines or devices, please confirm the safety of all the systems which this product involves.
 (2) There may be high temperature parts or charging parts, therefore, please be careful even when it stops working.
 - (3) Before checking or maintaining machines, please cut off the energy supply of gas supply, water supply, and the power supply of corresponding devices, exhaust the compact air in the system. Please watch out for water leakage or electric leakage when doing operations.
 - (4) When using machines or devices of pneumatic units, before starting it or restarting it, please confirm whether the systems of flyout preventive measures etc. are dependable. Be careful when operate.

5 In order to avoid accidents, please do comply with the warnings and matters needing attention below the next page.

The matters needing attention shown here divides the levels into "DANGER", "WARNING", and "CAUTION".



When there are operational mistakes, it might cause the dangers of death or severe injury; and when dangers occur, the urgency (urgent degree) is high.

RNING: When there are operational mistakes, it might cause the dangers of death or severe injury.

CAUTION: When there are operation mistakes, it might cause the dangers of slight injury or just property loss.

In addition, even the recorded items in "CAUTION" may also cause severe consequences due to different situations. Each has recorded important contents, please do comply with them.



Pneumatic Component

In order to use this product safely

Please make sure you have read it before using the product. Refer to "Pneumatic Cylinders I (CB-029SA)" for general precautions of pneumatic components.

Individual Notes: Pin clamp cylinder PCC

Design · Select

A Warning

- This product is designed for positioning and clamping the workpiece simultaneously.
 Do not use this cylinder for other applications as it may lead to damage and accidents.
- Please take safety measures such as placing a protective cover when there is a risk of clamp lever causing injuries.
- If circuit pressure goes down due to power outage or trouble at the air source, etc,. the clamping force will drop, which may cause the workpiece to fall out.
 Please take appropriate measures to prevent damage and injuries such as using a position locking cylinder.
- This cylinder may not be able to maintain sufficient clamping force when used on a moving platform. Please take appropriate measures to prevent the workpiece from falling off with its weight and inertia in consideration.

PCC-Q (position locking) only

- This cylinder has a position locking function. Emergency stops and stopping it while it is extending or retracting will drastically reduce service life.
- The lock may be released by back pressure. Please use a discrete valve or individual exhaust manifold.
- Always apply pressure to the clamp (rod) side port when unlocking to prevent load from being applied to the locking mechanism.
- The clamp lever will move about 1 mm when locking due to its structure.

A Caution

- The workpiece must be clamped within the clamp stroke.
- Do not let electricity enter this product when using it for welding.

PCC-Q (position locking) only

- Pipe this cylinder (position locking) as shown on the drawing to the right. Piping differently from the drawing to the right may result in troubles such as slower response.
 - The piping for this cylinder must be branched and piped to the position locking section (main pipe) and cylinder section (branch pipe) after the valve as shown on the drawing to the right.
 - Design the pneumatic circuit so that the lock is released before the cylinder moves. If the cylinder moves before unlocking, it may not be unlocked or the piston rod may pop out even if it gets unlocked.





Pneumatic Component

In order to use this product safely

Please make sure you have read it before using the product. Refer to "Pneumatic Cylinders I (CB-029SA)" for general precautions of pneumatic components.

Individual Notes: Pin clamp cylinder PCC series

Use · Maintain

A Warning

PCC-Q (position locking) only

- Do not lubricate the lock section as it may lead to lower clamping force.
- Do not disassemble the lock section because it is dangerous.
- Keep the dust protection cover on except for when you are manually releasing the lock.

A Caution

- Remove the spatter that has entered this product throught the cleaning hole on the side of this product (Rc3/8). Do not dent or scratch the sliding section of the piston rod.
- Locating pin and clamp lever are consumables. Worn out locating pin and clamp levers may not be able to clamp properly.

PCC-Q (position locking) only

- If this product is used for a long period of time unlocked, the response of the lock may be delayed.
 Do not leave the lock section pressurized and operate the lock every cycle.
- When there is no air pressue, such as in vertical downward use, there will be no holding force during manual release so the workpiece, etc. will become unclamped from its own weight.

CHINA-NETWORK



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CKD maintains a policy of ongoing product development and improvement.

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