# Pin Plate Cylinder C(L)KU32-X2359

How to Order



#### Applicable Auto Switches/Refer to the Best Pneumatics No. 3 for further information on auto switches.

Туре	Auto switch model	Applicable magnetic field	Electrical entry	Indicator light	Wiring (Pin no. in use)	Load voltage	Lead wire length	Applicable load
	D-P3DWSC		Pre-wired		2-wire (3-4)		0.2 m	
Calid state	D-P3DWSE	AC magnetic field	connector	0.00107	2-wire (1-4)		0.5 m	Delay
Solid state	D-P3DW	(Single-phase		2-00101		24 VDC	0.5 m	PLC Note)
D-P3DWL	magnetic field)	Grommet	Indication	2-wire		3 m		
	D-P3DWZ	magnetie neid)					5 m	

Note) PLC: Programmable Logic Controller



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# **Basic Specifications**

C(L)KU32				
Double acting				
32 equ	ivalent			
12.5 (Without workpiece)/10				
Air				
CKUD: 0.1 MPa	CLKU□: 0.15 MPa*			
0.7 MPa				
-10 to 60°C (No freezing)				
None				
Non-lube				
50 to 150 mm/sec				
Rc	1/8			
	C(L) Double 32 equ 12.5 (Without A CKU⊡: 0.1 MPa 0.7 -10 to 60°C Nor 50 to 150 Rc			

\* Minimum operating pressure is 0.2 MPa when cylinder part and locking part use the same piping.

# Lock Specifications

Model	CLKU32
Locking action	Spring locking (Exhaust locking)
Unlocking pressure	0.2 MPa
Lock starting pressure	0.05 MPa
Locking direction	Unclamp direction locking
Port size (Lock release port)	Rc1/8
Holding force (Maximum static load)	402 N

# **Clamping Force**

							(N)
Madal	Guide pin diameter		Op	perating pro	essure (MI	Pa)	
woder	(mm)	0.2	0.3	0.4	0.5	0.6	0.7
C(L)KU32	ø12.7 to ø19.7	130	195	260	325	390	455

Note 1) It takes approximately 0.3 seconds for the cylinder to operate to generate clamping force from an unclamping state (when no speed controller is installed). Design circuit taking into consideration the time before the clamping force is generated.

Note 2) Determine the clamping force according to the strength of the workpiece. It can be damaged if the clamping force is too large.

Note 3) Guide pins and clamp arms are consumable items. Please prepare spare parts in case they are damaged.

# Weight

					(g)			
Gı	uide pin	Model						
Diameter	Chana	CKU32	-X2359	CLKU32	2-X2359			
(mm)	Shape	LOW type	HIGH type	LOW type	HIGH type			
107	Round type	790	960	1000	1170			
12.7	Diamond type	790	300	1000	1170			
17.5	Round type							
17.5	Diamond type							
177	Round type	940	840 1010	1050	1000			
17.7	Diamond type	040	1010	1050	1220			
10.7	Round type							
19.7	Diamond type							

# **Replacement Parts**

(C(L)KU, LOW type/HIGH type common)

#### Guide Pin Order No.

Gui	de pin	Dautina
Diameter (mm)	Shape	Part no.
10.7	Round type	CKU32-45-530ZL
12.7	Diamond type	CKU32-45-531ZL
17.5	Round type	CKU32-45-694ZL
	Diamond type	CKU32-45-695ZL
17.7	Round type	CKU32-45-532ZL
	Diamond type	CKU32-45-533ZL
19.7	Round type	CKU32-45-534ZL
	Diamond type	CKU32-45-535ZL

#### Clamp Arm Order No.

Gi	iide pin	Dort no
Diameter (mm)	Shape	Fart no.
12.7		CKU32-54-530ZL
17.5	Round type/	
17.7		CKU32-54-532ZL
197	Common	

#### **Reference Support Block Order No.**

Gui	de pin	Dort no
Diameter (mm)	Shape	Fan no.
12.7	Development	CKU32-36-530ZL
17.5	Round type/	
17.7	common	CRU32-30-5322L
19.7	common	CKU32-36-534ZL

# C(L)KU32-X2359

### Dimensions

# CKU32 (Clamping height LOW type)



**SMC** 

\* The customer should regulate the dimensional accuracy associated with machining. If the cutting limit line is exceeded because of overmachining, clamping failures, etc. may occur and this is not covered by the warranty.

Pin diameter	С	d	Е	Κ	R	Т	W
12.7	8.5	12.7	10.4	5	5	6	11.6
17.5		17.5	14.0			0.5	10.4
17.7	13	17.7	14.8	6	7.5	8.5	10.4
19.7		19.7	15			9.8	16.8

#### Clamp arm position



### Dimensions

# CKU32 (Clamping height HIGH type)



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\* The customer should regulate the dimensional accuracy associated with machining. If the cutting limit line is exceeded because of overmachining, clamping failures, etc. may occur and this is not covered by the warranty.

Pin diameter	С	d	E	K	R	Т	W
12.7	8.5	12.7	10.4	5	5	6	11.6
17.5		17.5	14.0			0.5	16.4
17.7	13	17.7	14.0	6	7.5	0.5	10.4
19.7		19.7	15			9.8	16.8

**Clamp arm position** 



# C(L)KU32-X2359

# Dimensions

# CLKU32 (Clamping height LOW type)



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# Pin Plate Cylinder C(L)KU32-X2359

# Dimensions



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# C(L)KU32-X2359 Option/Auto Switch Mounting

# Dimensions

Shim



•Shims can be mounted up to 3 mm.

Description	Plate thickness (mm)	Part no.
Shim A	1	CKQ32-36A746MN
Shim B	0.5	CKQ32-36B746MN

# Auto Switch Mounting Height



### Auto Switch Mounting Bracket Part No./Mounting Method

Applicable auto switch	D-P3DW
Auto switch mounting bracket part no.	CKU32-42-530ZL-R
Auto switch mounting bracket fitting parts lineup/Weight	<ul> <li>Hexagon socket head cap screw (M2.5 x 9 L)</li> <li>Auto switch mounting bracket Weight: 4 g</li> </ul>
	Surfaces with auto switch mounting slot
Auto switch mounting surfaces	Without lock With lock
Mounting of auto switch	<ol> <li>The hexagon socket head cap screw attached to the auto switch is not required. Turn to loosen and remove.</li> <li>This procedure is only for auto switches that are ordered separately. Hexagon socket head cap screws are removed when auto switches are shipped together with cylinder.</li> <li>Fix the auto switch and the auto switch mounting bracket with the hexagon socket head cap screw (M2.5 x 9 L) shipped together with the auto switch mounting bracket.</li> <li>Check the detecting position of the auto switch by sliding it along the cylinder tube rib, before fixing the auto switch on the cylinder tube threaded portion by inserting the hexagon socket head cap screw (M2.5 x 9 L) into the long hole of the auto switch mounting bracket.</li> <li>Note) The tightening torque for the hexagon socket head cap screw (M2.5 x 9 L) is 0.2 to 0.3 N·m.</li> <li>Hexagon socket head cap screw with auto switch (Nd required)</li> <li>Long hole of auto switch mounting bracket</li> </ol>