



Pneumatic CylindersII
Catalog No. CB-030SA

Unit cylinder Ball bearing/with switch

UCA2-B Series

● Bore size: $\phi 10/\phi 16/\phi 25/\phi 32$

JIS symbol



Pneumatic actuator
 Hand/Chuck
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 Motor specification

Specifications

Item	UCA2-B UCA2-BL (with switch)			
	$\phi 10$	$\phi 16$	$\phi 25$	$\phi 32$
Bore size mm	$\phi 10$	$\phi 16$	$\phi 25$	$\phi 32$
Actuation	Double acting			
Working fluid	Compressed air			
Max. working pressure MPa	1.0			
Min. working pressure MPa	0.15		0.1	
Proof pressure MPa	1.5			
Ambient temperature °C	-10 to 60 (no freezing)			
Port size	M5		Rc1/8	
Stroke tolerance mm	+1.0 0			
Working piston speed mm/s	30 to 300			
Non-rotating accuracy *1	$\pm 0.04^\circ$	$\pm 0.03^\circ$	$\pm 0.015^\circ$	$\pm 0.015^\circ$
Max. operating frequency cycles/min.	30			
Cushion	Shock absorber integrated			
Lubrication	Not available			
Allowable absorbed energy J	0.25	0.65	2.4	4.5

*1: Value when stroke length = 0 (excluding deflection of the piston rod)

Stroke

Bore size (mm)	Standard Stroke (mm)	Max. Stroke (mm)	Min. Stroke (mm)	Min. stroke with switch (mm)
$\phi 10$	25/50/75/100	100	25	10: With 1 switch 20: Switch2 75: With 3 switches
$\phi 16$	25/50/75/100	200		
$\phi 25$	125/150/175/200			
$\phi 35$				

Note: Products with Stroke other than standard Stroke are not available.

Compatibility table by variation

Applicable bore size		Metal bush Bearing Type	Ball Bearing Type
			B
ø10 up 32	P4	●	●
	P40	●	●

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

How to order

Without switch

UCA2-B - X - 10 - 25 - P1A P4 P40

With switch

UCA2-BL - X - 10 - 25 - SW11 - RA - P1A P4 P40

A Fixing method

B Bore size

C Stroke

D Switch model No.
*1

E Switch quantity
*2

F Option
*3

Code	Description				
A Fixing method					
X	Body fixing				
Y	Plate fixing				
B Bore size (mm)					
10	ø10				
16	ø16				
25	ø25				
32	ø32				
C Stroke (mm)					
	Bore size(ø)	10	16	25	32
25	25	●	●	●	●
50	50	●	●	●	●
75	75	●	●	●	●
100	100	●	●	●	●
125	125	□	●	●	●
150	150	□	●	●	●
175	175	□	●	●	●
200	200	□	●	●	●
D Switch model No.		Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.			
E Switch quantity					
RA	1	Plate A side			
RB		Plate B side			
D	2				
T	3				
F Option					
P1A	Single adjustment	Plate A side			
P1B	Stopper	Plate B side			
P2	Double adjusting stoppers				

⚠ Precautions for model No. selection

*1: Magnet is not built into the type without switch. For specifications with switch but without switch installed, a magnet and magnet rail are mounted but a switch rail is not.

*2: Min. Stroke with three switches is 75 (mm).

*3: Difference between side A and side B is described in the dimensions.

Related products

Speed controller							
Model No.	Appearance	Port size (Rc or R)		Compatible tube O.D.			Page
		M5	1/8	4 (ø4)	6(ø6)	8(ø8)	
SC3W-M5- *P4		●		●	●		530
SC3W-6- *P4			●	●	●	●	

Specify the compatible tube O.D. code for *.

P4
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