



Pneumatic CylindersII
Catalog No. CB-030SA

Twin rod cylinder Double acting/standard

STR2-M_B Series

● Bore size: $\phi 6/\phi 10/\phi 16/\phi 20/\phi 25/\phi 32$

JIS symbol



Pneumatic actuator
 Hand/Chuck
 Related products
 Cylinder/Switch
 Vacuum components
 Pneumatic valves
 Clean air components
 Speed controller
 Fitting
 Auxiliary valve
 Silencer
 Tube
 Gas generator
 Fluid control components
 Motor specifications
 Motor specifications

Specifications

Item	STR2-M (metal bush bearing) STR2-B (ball bearing)						
Bore size mm	$\phi 6$	$\phi 10$	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$	
Actuation	Double acting						
Working fluid	Compressed air						
Max. working pressure MPa	0.7						
Min. working pressure MPa	0.2	0.15		0.1			
Proof pressure MPa	1.05						
Ambient temperature °C	-10 to 60 (no freezing)						
Port size	M5					Rc1/8	
Stroke tolerance mm	+2.0 0						
Adjustable stroke rangemm	0 to -5						
Working piston speedmm/s	50 to 500						
Non-rotating accuracy	STR2-M	$\pm 0.4^\circ$		$\pm 0.3^\circ$		$\pm 0.2^\circ$	
	STR2-B	$\pm 0.2^\circ$		$\pm 0.1^\circ$		$\pm 0.3^\circ$	
Piston rod	STR2-M	Metal bush bearing					
Bearing	STR2-B	Ball bearing					
Cushion	Rubber cushion						
Lubrication	Not available						
Allowable absorbed energy	PUSH	0.008	0.061	0.181	0.303	0.68	1.3
	PULL	0.059	0.083	0.083	0.127	0.237	0.311

Stroke

Bore size	Stroke (mm)	Max. Stroke (mm)	Min. Stroke (mm)	Min. stroke with switch (mm)
$\phi 6$	10,20,30,40,50	50	5	10
$\phi 10$				
$\phi 16$	10,20,30,40,50 60,70,80,90,100	100		
$\phi 20$				
$\phi 25$				
$\phi 32$				

*1: In the case of rear piping:

- $\phi 16$: 70
- $\phi 20/\phi 25$: 60
- $\phi 32$: 50

*2: Custom Stroke

Available in 1 mm increments.
However, the total length is the same as that of the next longer standard Stroke.

Compatibility table by variation

Applicable bore size		Double acting/ single rod	Double acting/ position locking	Double acting/ fine speed	Double acting/ low speed	Double acting/ double rod
			Q	F	O	D
ø6 to 32	P4	●	●			○
	P40	●	●			○
	P42	▲	▲			▲

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

How to order

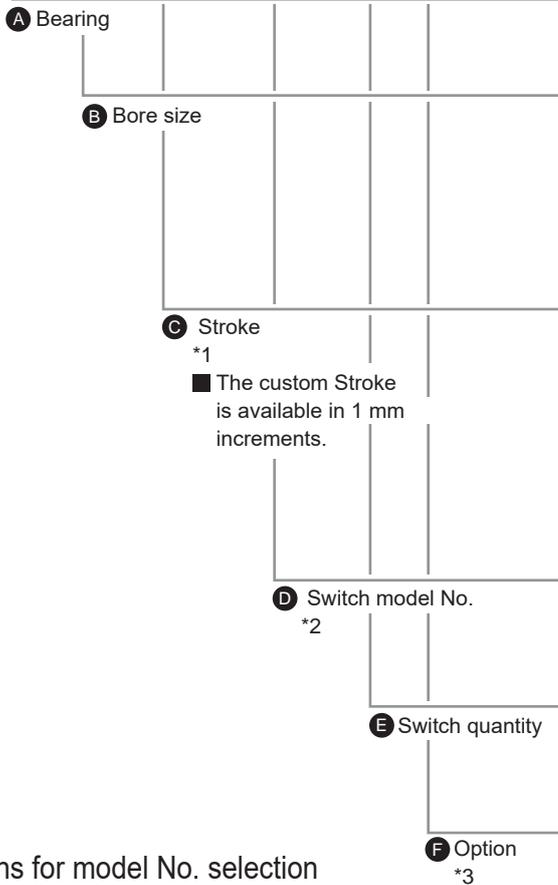
Without switch (built-in magnet for switch)

STR2 - M - 16 - 30 - R P4 P40

With switch (built-in magnet for switch)

STR2 - M - 16 - 30 - SW51 - R - R P4 P40

Model No.



Code	Description		
A Bearing			
M	Metal bush bearing		
B	Ball bearing		
B Bore size(mm)			
6	ø6		
10	ø10		
16	ø16		
20	ø20		
25	ø25		
32	ø32		
C Stroke(mm)			
Bore size	Stroke	Available Stroke	Intermediate Stroke
ø6	5 to 50	100	In 1 mm increments
ø10	5 to 50		
ø16	5 to 100		
ø20	5 to 100	150	
ø25	5 to 100		
ø32	5 to 100		
D Switch model No.			
Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.			
E Switch quantity			
R	1 on rod side		
H	1 on head side		
D	2		
F Option			
O	Change piping port position by 180°		
R	Rear piping		

⚠ Precautions for model No. selection

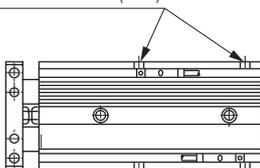
*1: The max stroke length of rear piping "R" is:

- ø6/10: 50 strokes
- ø16: 70 strokes
- ø20/25: 60 strokes
- ø32: 50 strokes

*2: STR2-B-6 and 10 are not compatible with a reed switch.

*3: The piping port positions for "O" are as shown in the figure below.

Piping port positions for standard (blank)



Change piping port position by 180°
(Code: O) piping port

Related products

		Speed controller						
Model No.	Appearance	Port size (Rc or R)			Compatible tube O.D.			Page
		M3	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 Series

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controller
Speed
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