



Pneumatic Cylinders II
Catalog No. CB-030SA

Guided cylinder Double acting/ Single rod

STG-M/B Series

- Bore size: $\phi 12/\phi 16/\phi 20/\phi 25/\phi 32/\phi 40$
 $\phi 50/\phi 63/\phi 80/\phi 100$



Specifications

Item	STG-M/B										
Bore size mm	$\phi 12$	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$	$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$	
Actuation	Double acting										
Working fluid	Compressed air										
Max. working pressure MPa	1.0										
Min. working pressure MPa	0.15					0.1					
Proof pressure MPa	1.6										
Ambient temperature °C	-10 to 60 (no freezing)										
Port size	M5		Rc1/8				Rc1/4		Rc3/8	Rc3/8	
Stroke tolerance mm	+2.0 0										
Working piston speed mm/s	50 to 500						50 to 300				
Cushion	With rubber cushion										
Lubrication	Not available										
Allowable absorbed energy J	0.056	0.088	0.157	0.157	0.401	0.627	0.980	1.560	2.510	3.92	

Stroke

Bore size	Standard Stroke (mm)	Max. Stroke (mm)	Min. Stroke (mm)	Min. stroke with switch (mm)
$\phi 12$	10/20/30/40/50/75/100	250	5	5 (10) *2
$\phi 16$	125/150/175/200/250			
$\phi 20$	20/30/40/50/75/100/125			
$\phi 25$	150/175/200/250/300/350/400			
$\phi 32$	25/50/75/100 125/150/175 200/250/300 350/400			
$\phi 40$				
$\phi 50$				
$\phi 63$				
$\phi 80$				
$\phi 100$				

*1: The custom Stroke is available in 5 mm increments. However, the total dimensions are the same as the longer standard Stroke. A dedicated body with dimensions matched to the Stroke is available. Contact CKD for details.
*2: For types with one or two switches. The value in () is the min. Stroke for switches of the 2-color display and AC magnetic field proof.

Related products

Speed controller											
Model No.	Appearance	Port size (Rc or R)				Compatible tube O.D.					Page
		M5	1/8	1/4	3/8	4($\phi 4$)	6($\phi 6$)	8($\phi 8$)	10($\phi 10$)	12($\phi 12$)	
SC3W-M5-*P4		●				●	●				530
SC3W-6-*P4			●			●	●	●			
SC3W-8-*P4				●			●	●	●		
SC3W-10-*P4					●		●	●	●		

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

Compatibility table by variation

Applicable bore size		Double acting/ single rod	Double acting/ position locking	Double acting/ rubber-air cushioned	Double acting/ air cushioned	Double acting/ rubber scraper	Double acting/ coil scraper	Double acting/ coolant proof	Double acting/ anti-splatter adherence
			Q	*C	C	G	G1	G2/G3	G4
ø12 to 100	P4	●	●	○	○	○			
	P40	●	●	○	○	○			
	P42	▲	▲	▲	▲				

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

*1: Not compatible with STG-K.

How to order

Without switch (built-in magnet for switch)

STG - M - 32 - 25 - P4 P40

With switch (built-in magnet for switch)

STG - M - 32 - 25 - SW11 - R - P4 P40

Model No.

A Bearing

B Bore size

C Stroke

D Switch model No. *1 *2

E Switch quantity

⚠ Precautions for model No. selection

- *1: T8H/V switch cannot be installed on STG-12 or 16.
- *2: Switches are shipped with the product.
- *3: Total length dimensions, The dimensions are the same as the longer standard stroke.
- *4: A dedicated body with dimensions matched to the Stroke is available. Contact CKD for details.
- *5: The value in () is the min. stroke length for switches of the 2-color display and AC magnetic field proof.

Code	Description									
A Bearing										
M	Metal bush bearing									
B	Ball bearing									
B Bore size (mm)										
12	ø12									
16	ø16									
20	ø20									
25	ø25									
32	ø32									
40	ø40									
50	ø50									
63	ø63									
80	ø80									
100	ø100									
C Stroke (mm)										
	Applicable bore size									
	ø12 ø16 ø20 ø25 ø32 ø40 ø50 ø63 ø80 ø100									
Standard Stroke	10	● ●								
	20	● ●	● ●							
	25			● ●	● ●	● ●	● ●	● ●	● ●	
	30	● ●	● ●	● ●						
	40	● ●	● ●	● ●						
	50	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	
	75	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	
	100	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	
	125	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	
	150	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	
	175	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	
	200	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	
	250	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	
300			● ●	● ●	● ●	● ●	● ●	● ●		
350			● ●	● ●	● ●	● ●	● ●	● ●		
400			● ●	● ●	● ●	● ●	● ●	● ●		
Min. Stroke *5		5(10)								
Custom Stroke *3, *4		In 5 mm increments								
D Switch model No.		Refer to the switch model No. Refer to the compatibility table on Intro Pages 23 to 26.								
E Switch quantity										
R	1 on rod side									
H	1 on head side									
D	2									
T	3									