



Pneumatic Cylinders I  
Catalog No. CB-029SA

Magnet rodless cylinder With high precision guide

# MRG2 Series

● Bore size:  $\phi 10$ ,  $\phi 16$ ,  $\phi 25$

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 specification

## Specifications

Item	MRG2			
Bore size	mm	$\phi 10$	$\phi 16$	$\phi 25$
Actuation		Double acting		
Working fluid		Compressed air		
Max. working pressure	MPa	0.7		
Min. working pressure	MPa	0.3 (*1)	0.2	
Proof pressure	MPa	1.05		
Ambient temperature	°C	5 to 60		
Port size		M5		Rc1/8
Stroke tolerance	mm	+1.5 0		
Working piston speed	mm/s	50 to 1000		
Cushion		Shock absorber		
Lubrication		Not available		
Magnet holding force	N	63	166	350
Allowable absorbed energy	J	2.1	5.3	8.7

\*1: Due to resistance of the shock absorber, it will take time to reach the stroke end. Take this into consideration upon use.

\*2: Products other than standard Stroke are made to order products.

## Stroke

Bore size (mm)	Standard Stroke (mm)	Max. Stroke (mm)	Max.Small Stroke (mm)	Min. stroke with switch-K (mm)
$\phi 10$	50, 100, 150, 200, 300	300	50	50 (with 2 pcs.)
$\phi 16$	50,100,150,200,300,400,500	500		
$\phi 25$	50,100,150,200,300,400,500,600,700	700		

Note: Products other than standard Stroke are made-to-order products.

## Compatibility table by variation

Applicable bore size		Double acting/basic
ø10/16/25	P4	●
	P40	▲

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable  
 \*1: Electrolytic nickel plating is used in the magnet.

## How to order

**MRG2** - **10** - **100** - **SW11** - **D** - **A** **P4**  
**P40**

**A** Bore size

**B** Stroke

**C** Switch model No.

**D** Switch quantity

**E** Option  
\*1

Code	Description			
<b>A Bore size (mm)</b>				
10	ø10			
16	ø16			
25	ø25			
<b>B Stroke (mm)</b>				
	<b>Bore size ø (mm)</b>	<b>10</b>	<b>16</b>	<b>25</b>
50	50	●	●	●
100	100	●	●	●
150	150	●	●	●
200	200	●	●	●
300	300	●	●	●
400	400	□	●	●
500	500	□	●	●
600	600	□	□	●
700	700	□	□	●
<b>C Switch model No.</b>				
Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.				
<b>D Switch quantity</b>				
R	1 on R side			
L	1 on L side			
D	2			
T	3			
4	4 (when there are more than 4 switches, indicate switch quantity.)			
<b>E Option</b>				
A	With both-sided full Stroke adjustable brackets			
A1	With R side full Stroke adjusting bracket			
A2	With L side full Stroke adjusting bracket			

## ⚠ Precautions for model No. selection

\*1: The full Stroke adjustable brackets cannot be retrofitted.

## 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**  
Series

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Pneumatic actuator

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Clean air components  
Speed controller  
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Auxiliary valve  
Silencer

Pneumatic auxiliary components

Tube

Gas generator  
Fluid control components

Motor specification  
Motorless specifications

Electric actuator