

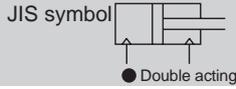


Pneumatic Cylinders I  
Catalog No. CB-029SA

Compact direct mounting cylinder Double acting/ Single rod

# MDC2 Series

● Bore size:  $\phi 6, \phi 8, \phi 10$



## Specifications

Item	MDC2/MDC2-L (with switch)		
	$\phi 6$	$\phi 8$	$\phi 10$
Bore size mm	$\phi 6$	$\phi 8$	$\phi 10$
Actuation	Double acting		
Working fluid	Compressed air		
Max. working pressure MPa	0.7		
Min. working pressure MPa	0.15		0.1
Proof pressure MPa	1.05		
Ambient temperature °C	-10 to 60 (no freezing) *1		
Port size	M3		M5
Stroke tolerance mm	+0.5 0		
Working piston speed mm/s	50 to 500		
Cushion	No		
Lubrication	Not available		
Allowable absorbed energy J	This product cannot absorb the energy generated by an external load mounted on the cylinder. When using the product with no load, separately provide a shock absorber on the outside.		

\*1: When using the proximity switch, use at 40°C or less.

## Stroke

Bore size (mm)	Standard Stroke (mm)	Max. Stroke (mm)	Switch 2 Min. Stroke with stopper (mm)		With 1 switches Min. Stroke (mm)	
			Reed switch	Proximity switch	Reed switch	Proximity switch
$\phi 6$	4/6/8	8	6	4 (8)	4	4
$\phi 8$	4/6/8	8	8	4 (8)	4	4
$\phi 10$	4/6/10	10	6	4 (10)	4	4

\*1: Products with Stroke other than standard Stroke are not available.

\*2: F2Y, F3Y or F3P have the min. Stroke as the dimensions in ( ).

### Compatibility table by variation

Applicable bore size		Double acting/ single rod	Single acting/ push	Single acting/ pull	Double acting/ fine speed
			X	Y	F
ø6 to 10	P4	●	○	○	
	P40	●	○	○	
	P42	▲			

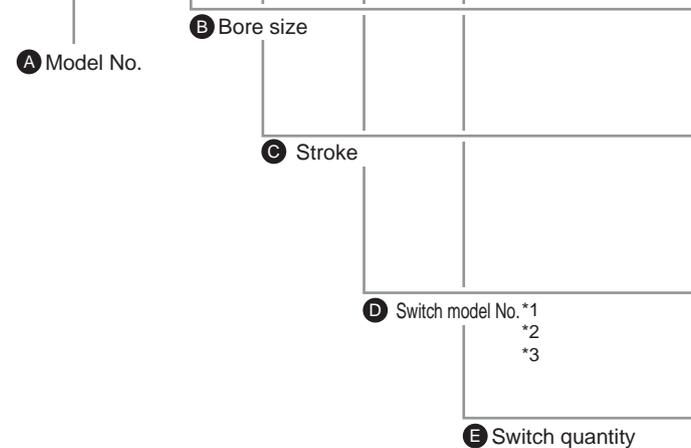
●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

### How to order

● Without switch



● With switch



Code	Description	
<b>A Model No.</b>		
MDC2	Double acting/ Single rod	Without switch
MDC2-L	Double acting/ Single rod	With switch
<b>B Bore size</b>		
6	ø6	
8	ø8	
10	ø10	
<b>C Stroke (mm)</b>		
4	4 (ø6 to ø10)	
6	6 (ø6 to ø10)	
8	8 (ø6, ø8)	
10	10 (ø10)	
<b>D Switch model No.</b>		
Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.		
<b>E Switch quantity</b>		
R	1 on rod side	
H	1 on head side	
D	2	

### ⚠ Precautions for model No. selection

- \*1: Min. stroke length with two reed switches is 6 mm for ø6, 8 mm for ø8, and 6 mm for ø10.
- \*2: For MDC2 with reed switch, the cylinder cannot be mounted on a magnetic substance (iron plate, etc.). Otherwise, this could lead to switch detection malfunction.
- \*3: When using MDC2-L-6 with reed switch, use a non-magnetic bolt (stainless steel hexagon socket head cap screw, etc.) for cylinder mounting bolt. Otherwise, this could lead to switch detection malfunction.

### Related products

Speed controller								
Model No.	Appearance	Port size (Rc or R)			Compatible tube O.D.			ø3 P3
		M3	M5	1/8	4(ø4)	6(ø6)	8(ø8)	
SC3W-M3- *-P4		●			●			530
SC3W-M5- *-P4			●		●	●		

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

P4 Series

Pneumatic cylinders  
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 specification  
Motorless specifications