



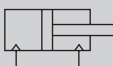
Compact direct mounting cylinder Double acting/Single rod

Long service life cylinder

MDC2-HP1 Series

● Bore size: ø4, ø6, ø8, ø10

JIS symbol



Specifications

Item	MDC2-HP1 MDC2-L-HP1 (with switch)			
Bore size mm	ø4	ø6	ø8	ø10
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) *1			
Port size	M3			M5
Stroke tolerance mm	+0.5			
	0			
Working piston speed mm/s	50 to 500			
Cushion	No			
Lubrication	Not required			
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)	Min. stroke with two switches (mm)		Min. stroke with one switch (mm)	
			Reed switch	Proximity switch	Reed switch	Proximity switch
ø4	3/6	6	-	-	-	-
ø6	4/6/8	8	6	4 (8)	4	4
ø8	4/6/8	8	8	4 (8)	4	4
ø10	4/6/10	10	6	4 (10)	4	4

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

*2: For F2Y, F3Y or F3P, the min. stroke will be the dimensions in ().

For dimensions, refer to the MDC2 Series in "Pneumatic Cylinders I (CB-029SA)".

How to order

- Without switch(without magnet for switch)

MDC2 - 6 - 4 - HP1

- With switch(built-in magnet for switch)

MDC2-L - 6 - 4 - F2V - R - HP1

A Model No.

B Bore size

C Stroke

D Switch model No.

*1
*2
*3
*4

E Switch quantity

⚠ Precautions for model No. selection

- *1: ø4 with switch cannot be selected.
- *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 the cylinder mounting bolt. Otherwise, this could lead to switch detection malfunction.
- *4: Refer to page 14 for the min. stroke with switch.

[Example of model No.]

MDC2-L-6-4-F2V-R-HP1

Model: Compact direct mounting cylinder

- A** Model No. : Double acting/Single rod/with switch
- B** Bore size : ø6 mm
- C** Stroke : 4 mm
- D** Switch model No. : Proximity F2V switch, lead wire 1 m
- E** Switch quantity : 1 on rod side

How to order switch

SW - F0H

Switch model No.
(Item **D** above)

Code		Description				
A Model No.						
MDC2	Double acting/Single rod			Without switch		
MDC2-L	Double acting/Single rod			With switch		
B Bore size						
4	ø4					
6	ø6					
8	ø8					
10	ø10					
C Stroke (mm)						
3	3 (ø4)					
4	4 (ø6 to ø10)					
6	6 (ø4 to ø10)					
8	8 (ø6, ø8)					
10	10(ø10)					
D Switch model No.						
Lead wire Straight	Lead wire L-shaped	Contact	Voltage		Indicator	Lead wire
			AC	DC		
F0H*	F0V*	Reed		●	1-color LED	2-wire
-	F2S*	Proximity		●		
F2H*	F2V*			●		
-	F3S*			●		
F3H*	F3V*			●		
F3PH*	F3PV*			●	1-color LED (PNP output) (Made to order)	3-wire
F2YH*	F2YV*		●	2-color LED	2-wire	
F3YH*	F3YV*		●			3-wire
* Lead wire length						
Blank		1 m (standard)				
3		3 m (option)				
E Switch quantity						
R	1 on rod side					
H	1 on head side					
D	2					

SCPD3	Long service life cylinder
CMK2	
SCM	
SSD2	
MDC2	
MSD	
MSDG-L	
SMG	
LCR	
LCG	
STM	
STG	
STR2	
SCPD3	Environment-resistant cylinder
CMK2	
SCM	
SCG	
SSD2	
SMG	
LCR	
STG	
STS	
STL	
LSH	Linear Slide Hand
LSHL	
LSHM	
LST	Low-profile long stroke hand
LSTM	
HMC	Wide Parallel Hand
CKW	Chuck
ABP2	Air Booster
SCPD3	Compatible with rechargeable batteries
CMK2	
SCM	
SSD2	
MSD	
MSDG-L	
SMG	
STG	
STM	
LCR	
LCG	
STR2	
LSH	
LSHL	
SCPD3	Supports food mfg. processes
CMK2	
SCM	
SCG	
SSD2	
STG	