

Cylinder weight table

(Unit: g)

Stroke (mm)	3		4		6		8		10		Weight per switch
Bore size (mm)	No switch	With switch	No switch	With switch	No switch	With switch	No switch	With switch	No switch	With switch	
ø4	6.4	-	-	-	7.3	-	-	-	-	-	-
ø6	-	-	11.4	13.1	12.4	14	13.4	15	-	-	10
ø8	-	-	16.1	18.2	17.4	19.5	18.7	20.8	-	-	10
ø10	-	-	21.4	23.3	22.6	24.5	-	-	25	26.9	10

Theoretical thrust table

(Unit: N)

Bore size (mm)	Operating direction	Working pressure MPa							
		0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7
ø4	Push	-	-	2.51	3.77	5.03	6.28	7.54	8.80
	Pull	-	-	1.88	2.83	3.77	4.71	5.65	6.60
ø6	Push	-	4.24	5.65	8.48	11.3	14.1	17.0	19.8
	Pull	-	2.36	3.14	4.71	6.28	7.85	9.42	11.0
ø8	Push	-	7.54	10.1	15.1	20.1	25.1	30.2	35.2
	Pull	-	4.59	6.13	9.19	12.3	15.3	18.4	21.4
ø10	Push	7.85	11.8	15.7	23.6	31.4	39.3	47.1	55.0
	Pull	5.03	7.54	10.1	15.1	20.1	25.1	30.2	35.2

How to order

- No switch (without magnet for switch)

MDC2 - 6 - 4

- With switch (built-in magnet for switch)

MDC2-L - 6 - 4 - F2V - R

A Model No. B Bore size C Stroke D Switch model No. *1
*2
*3
*4

⚠ Precautions for model No. selection

- *1 : ø4 with switch is not available.
 *2 : For MDC2 with reed switch, the cylinder cannot be mounted on a magnetic substance (iron plate, etc.). 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. Failure to do so could lead to switch detection malfunction.
 *4 : Refer to page 1348 for the min. stroke with switch.

[Example of model No.]

MDC2-L-6-4-F2V-R

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 switch F2V, lead wire 1 m
 E Switch quantity: 1 on rod side

E Switch quantity

Code		Description					
A Model No.							
MDC2	Double acting/single rod	No 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.							
Axial lead wire	Radial lead wire	Contact	Voltage		Indicator	Lead wire	
			AC	DC			
F0H*	F0V*	Reed		●	1-color LED	2-wire	
-	F2S*			●			
F2H*	F2V*			●		1-color LED (PNP output) (custom)	3-wire
-	F3S*			●			
F3H*	F3V*	Proximity		●			
F3PH*	F3PV*			●			
F2YH*	F2YV*			●	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					

How to order switch

SW - F0H

Switch model No.
(Item D above)

Clean-room specifications (Catalog No. CB-033SA)

- Anti-dust generation structure for use in cleanrooms

MDC2-.....- P7*

MDC2-.....- P5*

Specifications for rechargeable battery (Catalog No. CC-1226A)

- Design compatible with rechargeable battery manufacturing process

MDC2-.....- P4*

SCP*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/
COVP/N2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/
MSDG

FC*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd
Contr

Ending