

Long service life cylinder

Environment-resistant cylinder

Linear Slide Hand

Low-profile long stroke hand

Wide-Parallel Hand

Chuck

Air Booster

Compatible with rechargeable batteries

Supports food mfg. processes

SCPD3

CMK2

SCM

SSD2

MDC2

MSD

MSDG-L

SMG

LCR

LCG

STM

STG

STR2

SCPD3

CMK2

SCM

SCG

SSD2

SMG

LCR

STG

STS

STL

LSH

LSHL

LSHM

LST

LSTM

HMC

CKW

ABP2

SCPD3

CMK2

SCM

SSD2

MSD

MSDG-L

SMG

STG

STM

LCR

LCG

STR2

LSH

LSHL

SCPD3

CMK2

SCM

SCG

SSD2

STG



Compact cylinder Double acting/Single rod

Long service life cylinder

SMG-HP1 Series

● Bore size: $\varnothing 6/\varnothing 10/\varnothing 16/\varnothing 20/\varnothing 25/\varnothing 32$



Specifications

Item	SMG-HP1 SMG-L-HP1 (with switch)						
Bore size	mm	$\varnothing 6$	$\varnothing 10$	$\varnothing 16$	$\varnothing 20$	$\varnothing 25$	$\varnothing 32$
Actuation		Double acting					
Working fluid		Compressed air					
Max. working pressure	MPa	0.7					
Min. working pressure	MPa	0.12	0.06			0.05	
Proof pressure	MPa	1.05					
Ambient temperature	°C	-10 to 60 (no freezing)					
Port size		M5					Rc1/8
Stroke tolerance	mm	+1.5 0					
Working piston speed	mm/s	50 to 500					
Cushion		With rubber cushion					
Lubrication		Not required					
Allowable absorbed energy J		0.012	0.036	0.1	0.1	0.19	0.5

Stroke

Bore size (mm)	Standard stroke (mm)	Min. stroke (mm)
ø6	5, 10, 15, 20, 25, 30, 40, 50, 60	5
ø10		
ø16		
ø20	5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	
ø25		
ø32		

*1: The custom stroke is available in 5 mm increments.
However, the total length is the same as that of the next longer standard stroke.

Min. stroke with switch

Bore size	1-color LED		2-color LED	
	K □ H	K □ V	K □ YH	K □ YV
$\varnothing 6$	5		5	
$\varnothing 10$				
$\varnothing 16$				
$\varnothing 20$				
$\varnothing 25$				
$\varnothing 32$				

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

How to order

Without switch (without magnet for switch)

SMG - **6** - **25** - **HP1**

With switch (built-in magnet for switch)

SMG-L - **6** - **25** - **K2H** - **R** - **HP1**

A Model No.

B Bore size

C Port thread

D Stroke

E Switch model No.

F Switch quantity



Precautions for model No. selection

*1: Refer to page 24 for min. stroke with switch.

*2: Copper and PTFE free as standard.

Code	Description
A Model No.	
SMG	Double acting
SMG-L	Double acting with switch

B Bore size (mm)	
6	ø6
10	ø10
16	ø16
20	ø20
25	ø25
32	ø32

C Port thread	
Blank	Rc thread
NN	NPT thread (ø32 and over) (made to order)
GN	G thread (ø32 and over) (made to order)

D Stroke (mm)		Applicable bore size					
		ø6	ø10	ø16	ø20	ø25	ø32
Standard stroke	5	●	●	●	●	●	●
	10	●	●	●	●	●	●
	15	●	●	●	●	●	●
	20	●	●	●	●	●	●
	25	●	●	●	●	●	●
	30	●	●	●	●	●	●
	40	●	●	●	●	●	●
	50	●	●	●	●	●	●
	60	●	●	●	●	●	●
	70				●	●	●
	80				●	●	●
	90				●	●	●
	100				●	●	●

E Switch model No.						
Lead wire straight	Rate type	Lead wire L-shaped	Contact	Voltage		Indicator
				AC	DC	
	K0H*	K0V*	Reed	●	●	1-color LED
	K5H*	K5V*		●	●	No LED
	K2H*	K2V*	Proximity		●	1-color LED
	K3H*	K3V*			●	1-color LED (made to order)
	K3PH*	K3PV*			●	2-color LED
	K2YH*	K2YV*			●	2-color LED
	K3YH*	K3YV*			●	2-color LED

* Lead wire length	
Blank	1 m (standard)
3	3 m
5	5m

F Switch quantity	
R	1 on rod side
H	1 on head side
D	2

SMG repair parts list

Bore size (mm)	Kit No.	Part name
ø6	SMG-6K-HP1	CR type snap ring (ø6, ø10, ø16) Rod packing Cushion rubber R/H Piston packing Cover gasket
ø10	SMG-10K-HP1	
ø16	SMG-16K-HP1	
ø20	SMG-20K-HP1	
ø25	SMG-25K-HP1	
ø32	SMG-32K-HP1	

How to order switch

SW - **K2H**

E Switch model No.