



Pencil shaped cylinder
Double acting/Single rod/Rubber scraper

Environment-resistant cylinder

SCPD3-G-HP1 Series

● Bore size: $\varnothing 6/\varnothing 10/\varnothing 16$

JIS symbol



Specifications

Item	SCPD3-G-HP1 SCPD3-GL-HP1 (with switch)		
Bore size mm	ø6	ø10	ø16
Actuation	Double acting		
Working fluid	Compressed air		
Max. working pressure MPa	1.0		
Min. working pressure MPa	0.15	0.1	
Proof pressure MPa	1.6		
Ambient temperature °C	-10 to 60 (no freezing)		
Port size	M5		
Stroke tolerance mm	+1.0 0		
Working piston speed mm/s	50 to 750		
Cushion	With rubber cushion		
Lubrication	Not required		
Allowable absorbed energy J	0.012	0.041	0.162

Stroke

Bore size (mm)	Standard stroke (mm)	Max. stroke (mm)	Available stroke (mm)	Min. stroke (mm)
$\varnothing 6$	15/30/45/60	100	105	5
$\varnothing 10$		200	210	
$\varnothing 16$		260	270	

*1: The custom stroke is available in 1 mm increments.

Min. stroke with switch

	with 1 pc.		with 2 pcs.	
	Rod side mount	Head side mount	Different surface mounting	Same surface mounting
Sketch				
Min. stroke	5 mm		10 mm	28 mm
	with 3 pcs.			
	Different surface mounting	Same surface mounting		
Sketch				
Min. stroke	38 mm	54 mm		

How to order

Without switch(without magnet for switch)

SCPD3-G - 00 - 10 - 15 - O ————— Y - HP1

With switch(built-in magnet for switch)

SCPD3-GL - 00 - 10 - 15 - O - T2H - R - Y - HP1

A Model No.

B Mounting
*1

C Bore size

D Stroke

E Head side port direction
*1

F Switch model No.
*3, *6
* Indicates the lead wire length.

G Switch quantity

H Accessory
*4

! Precautions for model No. selection

- *1: "CB" mounting is not available when the port direction is "O" (axial direction).
- *2: Refer to page 48 for the min. stroke with switch.
- *3: Magnet is not built into the type without switch.
- *4: "I" and "Y" cannot be selected together.
- *5: Copper and PTFE free as standard.
- *6: Switches are shipped with the product.

[Example of model No.]

SCPD3-GL-00-10-30-O-T2H-R-I-HP1

Model: Pencil shaped cylinder

- A** Model No. : Double acting/Single rod/rubber scraper/with switch
- B** Mounting : Basic
- C** Bore size : $\phi 10$ mm
- D** Stroke : 30mm
- E** Head side port direction : Axial direction
- F** Switch model No. : Proximity switch T2H, lead wire 1 m
- G** Switch quantity : 1 on rod side
- H** Accessory : Rod eye

Code	Description
A Model No.	
SCPD3-G	Double acting/Single rod/rubber scraper
SCPD3-GL	Double acting/Single rod/rubber scraper with

B Mounting				
Bore size (ϕ)		6	10	16
00	Basic	●	●	●
LS	Axial foot (one side) (rod side)	●	●	●
FA	Rod side flange	●	●	●
CB	Clevis bracket (pin and snap ring attached)		●	●

C Bore size (mm)	
6	$\phi 6$
10	$\phi 10$
16	$\phi 16$

D Stroke (mm)			
Bore size	Stroke *2	Available Stroke	Custom stroke
$\phi 6$	5 to 100	105	In 1 mm increments
$\phi 10$	5 to 200	210	
$\phi 16$	5 to 260	270	

E Head side port direction	
Blank	Perpendicular
O	Axial direction

F Switch model No.						
Lead wire Straight	Lead wire L-shaped	Contact	Voltage		Indicator	Lead wire
			AC	DC		
T0H*	T0V*	Reed	●	●	1-color LED	2-wire
T5H*	T5V*		●	●	No LED	
T2H*	T2V*			●	1-color LED	2-wire
T3H*	T3V*	Proximity		●		3-wire
T2HR3	T2VR3			●	1-color LED Bending resistant lead wire	2-wire
T2WH*	T2WV*			●	2-color LED	2-wire
T3WH*	T3WV*			●		3-wire

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

G Switch quantity	
R	1 on rod side
H	1 on head side
D	2
T	3

H Accessory				
Bore size (ϕ)		6	10	16
I	Rod eye		●	●
Y	Rod clevis (pin and snap ring attached)		●	●
B1	Eye bracket		●	●
B2	Clevis bracket		●	●

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	

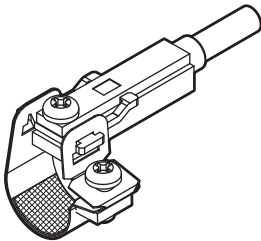
How to order switch

●Switch body + mounting bracket set

SCPD3 - T0H - 6

Bore size
(Page 49 Item C)

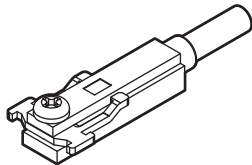
Switch model No.
(Page 49 Item F)



●Switch body (with fixing bracket)

SCPD3 - T0H

Switch model No.
(Page 49 Item F)

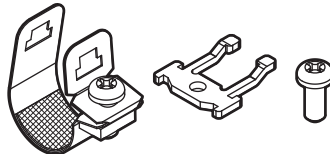


Note)T type standard switch and different fixing bracket and cross-recessed pan head machine screw.

●Mounting bracket set + fixing bracket

SCPD3 - TS - 6

Bore size
(Page 49 Item C)

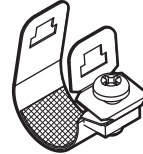


When 20 pcs or more are ordered, they will be packed together.

●Mounting bracket set

SCPD3 - T - 6

Bore size
(Page 49 Item C)



When 20 pcs or more are ordered, they will be packed together.

How to order mounting brackets

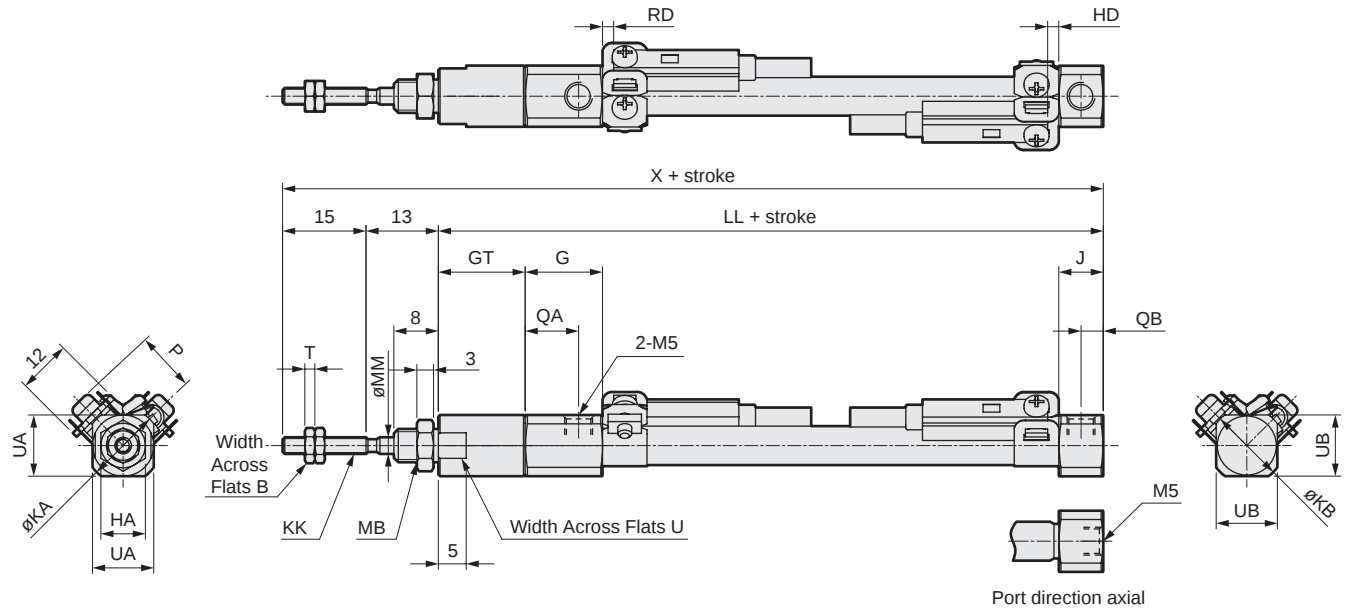
Bore size (mm)	ø6	ø10	ø16
Mounting bracket			
Foot (LS)	P2-LS-6	P2-LS-10	P2-LS-16
Flange (FA)	P2-FA-6	P2-FA-10	P2-FA-16

Note: The foot (LS) type mounting bracket is provided as 1 pc./set.

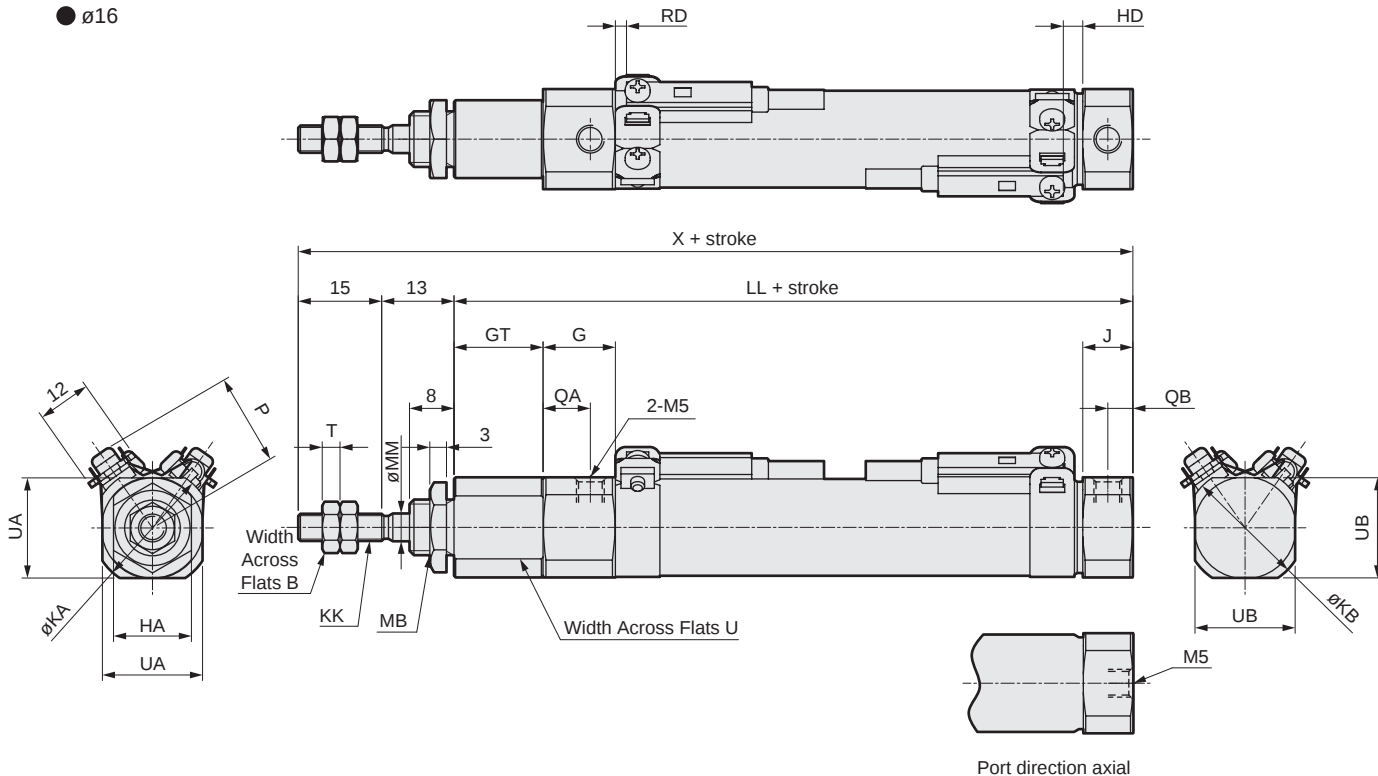
Dimensions

● SCPD3-G(L)-HP1 basic (00)

● $\phi 6/\phi 10$



● $\phi 16$



Code	Basic (00) basic dimensions																		With switch				
Bore size (mm)	B	G	GT	HA	J	KA	KB	KK	LL	MB	MM	QA	QB	T	U	UA	UB	X	T0,T5,T2,T3		T2W,T3W		P
																			RD	HD	RD	HD	
ø6	5.5	13.5	15.5	8	8	13.5	13.5 (10)	M3	59.5	M6	3	9.5	4	1.8	10	11	11 (9)	87.5	2	2	4	3.5	11.5
ø10	7	12.5	16	11	9	14.5	14.5	M4	62	M 8 x 1.0	4	8	4.5	2.4	10	12	12	90	3.5	2.5	5.5	4	13.5
ø16	8	13	16	14	9	21.5	21.5	M5	62	M 10 x 1.0	5	8.5	4.5	3.2	14	18	18	90	2	3.5	3.5	5	17.0

*1: The dimensions are the same in the type without switch. (Magnet is not built in.)

*2: As the thread depth of $\phi 6/\phi 10$ port is 3.8 mm, use a fitting with 3.8 mm or less thread length if necessary.

*3: For the dimensions of the accessories, refer to "Pneumatic Cylinders I (No. CB-029SA).

*4: Values shown in () are for the type with axial port direction.

* Refer to Double acting/Single rod in "Pneumatic Cylinders I" (No. CB-029SA) for dimensions of each mounting type.