

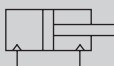
Pencil shaped cylinder Double acting/Single rod

Long service life cylinder

SCPD3-HP1 Series

● Bore size: ø6/ø10/ø16

JIS symbol



Specifications

Item	SCPD3-HP1 SCPD3-L-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)	Min. stroke (mm)
ø6	15/30/45/60	100	5
ø10		150	
ø16		150	

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

Min. stroke with switch

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

For dimensions, refer to the SCPD3 Series in "Pneumatic Cylinders I (CB-029SA)".

How to order

Without switch(without magnet for switch)

SCPD3 - 00 - 10 - 15 - 0 - Y - HP1

With switch(built-in magnet for switch)

SCPD3-L - 00 - 10 - 15 - 0 - 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.

! Precautions for model No. selection

- *1: "CB" mounting is not available when the port direction is "0" (axial direction).
- *2: Refer to page 2 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-L-00-10-30-0-T2H-R-I-HP1
Model: Pencil shaped cylinder

- A** Model No. : Double acting
- 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

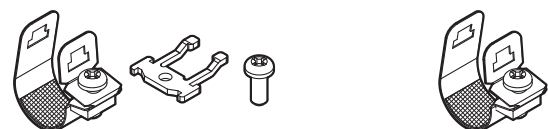
How to order switch

- Switch body + mounting bracket set
- Switch body (with fixing bracket)

SCPD3 - T0H - 6	SCPD3 - T0H
F Switch model No.	F Switch model No.
C Bore size	C Bore size
G Switch quantity	G Switch quantity
H Accessory *4	

- Mounting bracket set + fixing bracket
- Mounting bracket set

SCPD3 - TS - 6	SCPD3 - T - 6
C Bore size	C Bore size



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

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Code	Description
A Model No.	
SCPD3	Double acting
SCPD3-L	Double acting with switch

B Mounting				
Bore size (ø)		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	Custom stroke
$\phi 6$	5 to 100	In 1 mm increments
$\phi 10$	5 to 150	
$\phi 16$	5 to 150	

E Head side port direction	
Blank	Perpendicular
0	Axial direction

F Switch model No.					
Lead wire Straight	Lead wire L-shaped	Contact	Voltage AC DC	Indicator	Lead wire
T0H*	T0V*	Reed	● ●	1-color LED	2-wire
T5H*	T5V*		● ●	No LED	
T2H*	T2V*		● ●	1-color LED	2-wire
T3H*	T3V*	Proximity	● ●	1-color LED	3-wire
T2HR3	T2VR3		● ●	1-color LED Bending resistant lead wire	2-wire
T2WH*	T2VW*		● ●	2-color LED	2-wire
T3WH*	T3VW*		● ●	2-color LED	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 (ø)		6	10	16
I	Rod eye		●	●
Y	Rod clevis (pin and snap ring attached)		●	●
B1	Eye bracket		●	●
B2	Clevis bracket		●	●

How to order mounting brackets

Bore size (mm)	$\phi 6$	$\phi 10$	$\phi 16$
Mounting bracket			
Foot (LS)	P2-LS-6	P2-LS-10	P2-LS-16
Flange (FA)	P2-FA-6	P2-FA-10	P2-FA-16

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