

Pneumatic Cylinders I
Catalog No. CB-029SA

Pencil shaped cylinder Double acting/ Single rod

SCPD3 Series

● Bore size: $\phi 6/\phi 10/\phi 16$

JIS symbol



RoHS

Specifications

Item		SCPD3 SCPD3-L		
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		Rubber cushion		
Lubrication		Not available		
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)
SCPD3	$\phi 6$	15/30/45/60	100	105	5
	$\phi 10$		200	210	
	$\phi 16$		260	270	

Note: The custom Stroke is available in 1 mm increments.

How to order switch mounting bracket

P4	SCPD3-T-[Bore size]
P40	SCPD3-T-[Bore size]-P40

How to order mounting bracket P4

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

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

Brackets for rotation stop (M)

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

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

How to order mounting bracket P40

Bore size	$\phi 6$	$\phi 10$	$\phi 16$
Mounting bracket			
Foot (LS)	P2-LS-6-P40	P2-LS-10-P40	P2-LS-16-P40
Flange (FA)	P2-FA-6-P40	P2-FA-10-P40	P2-FA-16-P40

Note: The foot mounting bracket is provided as 1 pc./set.

Brackets for rotation stop (M)

Bore size (mm)	$\phi 10$	$\phi 16$
Mounting bracket		
Foot (LS)	P2-LS-10M-P40	P2-LS-16M-P40
Flange (FA)	P2-FA-10M-P40	P2-FA-16M-P40

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

Compatibility table by variation

Applicable bore size		Double acting/ single rod	Double acting/ high load	Single acting/ push	Single acting/ pull	Double acting/ double rod	Double acting/ fine speed	Double acting/ low speed	Double acting/ heat resistance	Double acting/ rubber-air cushioned	Double acting/ Rotation-stop (*5)	Double acting/ With valve
			K	SCPS3	SCPH3	D	F	O	T	*C	M	V
ø6 to 16	P4	●		○	○	○				○	○	
	P40	●		○	○	○				○	○	
	P42	▲				▲				▲		

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

How to order

Without switch (without magnet for switch)

SCPD3 - 00 - 10 - 15 - O - P4 P40 Y

With switch (built-in magnet for switch)

SCPD3-L - 00 - 10 - 15 - O - SW11 - R - P4 P40 Y

A Model No.

B Mounting
*1

C Bore size

D Stroke

E Head side port direction
*1

F Switch model No.
*2, *4


G Switch quantity

H Accessory
*3

Precautions for model No. selection

- *1: "CB" mounting is not available when the port direction is "O" (axial direction).
- *2: Magnet is not built into the type without switch.
- *3: "I" and "Y" cannot be selected together.
- *4: Switches are shipped with the product.
- *5: Bore size 6 of rotation-stop is not available.

Related products

Speed controller					
Model No.	Appearance	Port size (Rc or R)	Compatible tube O.D.		Page
		M5	4(ø4)	6(ø6)	
SC3W-M5-*P4		●	●	●	530

Specify the compatible tube O.D. code for *.

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	ø6			
10	ø10			
16	ø16			
D Stroke (mm)				
Bore size	Stroke	Available Stroke	Custom Stroke	
ø6	5 to 100	105	In 1 mm increments	
ø10	5 to 200	210		
ø16	5 to 260	270		
E Head side port direction				
Blank	Vertical			
O	Axial direction			
F Switch model No.				
Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.				
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		●	●

P4 Series

Pneumatic actuator
Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch

Vacuum components
Pneumatic valves

Pneumatic auxiliary components
Clean air components controller
Speed controller
Fitting
Auxiliary valve
Silencer
Tube

Gas generator
Fluid control components

Electric actuator
Motor specification