

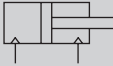
Round shaped cylinder Double acting/Single rod

Long service life cylinder

SCM-P4/P40-HP1 Series

● Bore size: $\phi 20/\phi 25/\phi 32/\phi 40$

JIS symbol



Specifications

Item		SCM-P4/P40-HP1			
Bore size	mm	ø20	ø25	ø32	ø40
Actuation		Double acting			
Working fluid		Compressed air			
Max. working pressure	MPa	1.0			
Min. working pressure	MPa	0.1			
Proof pressure	MPa	1.6			
Ambient temperature		-10 to 60 (no freezing)			
Port size	With rubber cushion	Rc1/8			
	With air cushion	M5		Rc1/8	
Stroke tolerance mm	With rubber cushion	+1.4 0 (up to 150)			
	With air cushion				
Working piston speed	mm/s	30 to 1000 (Operate within the allowable absorbed energy.)			
Cushion		Either rubber cushion or air cushion can be selected.			
Effective air cushion length mm		8.1	8.1	8.6	8.6
Lubrication		Not available			
Allowable absorbed energy J	With rubber cushion	0.1	0.2	0.5	0.9
	With air cushion	0.8	1.2	2.5	3.7

Stroke

Bore size (mm)	Standard stroke (mm)	Min. stroke (mm)
$\phi 20$	25, 50, 75, 100, 125, 150	10
$\phi 25$		
$\phi 32$		
$\phi 40$		

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

How to order switch mounting bracket

	[Rail] Mounting rail	[Band] Mounting bracket set + band
P4	SCM-T-[Bore size]	SCM-Z-[Bore size]
P40	- [Stroke length]	SCM-Z-[Bore size]-P40

How to order mounting bracket P4

Bore size (mm)	$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
Mounting bracket				
Foot (LB)	SCM-LB-20	SCM-LB-25	SCM-LB-32	SCM-LB-40
Flange (FA/FB)	SCM-FA-20	SCM-FA-25	SCM-FA-32	SCM-FA-40
Eye bracket (CA)	SCM-CA-20	SCM-CA-25	SCM-CA-32	SCM-CA-40
Trunnion (TA/TB)	SCM-TA-20	SCM-TA-25	SCM-TA-32	SCM-TA-40

How to order mounting bracket P40

Bore size (mm)	$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
Mounting bracket				
Foot (LB)	SCM-LB-20-P40	SCM-LB-25-P40	SCM-LB-32-P40	SCM-LB-40-P40
Flange (FA/FB)	SCM-FA-20-P40	SCM-FA-25-P40	SCM-FA-32-P40	SCM-FA-40-P40
Eye bracket (CA)	SCM-CA-20-P40	SCM-CA-25-P40	SCM-CA-32-P40	SCM-CA-40-P40
Trunnion (TA/TB)	SCM-TA-20-P40	SCM-TA-25-P40	SCM-TA-32-P40	SCM-TA-40-P40

*1: All mounting brackets have mounting bolts attached.

*2: The foot mounting bracket is provided as 2 pcs./set.

Refer to the SCM Series in "Pneumatic Cylinders I (No. CB-029SA)" for dimentions.

How to order

Without switch (built-in magnet for switch)

SCM-LB-40-B-100-M-P4-P40-I-HP1

With switch (built-in magnet for switch)

SCM-LB-40-B-100-SW11-D-M-P4-P40-I-HP1

A Mounting
*1

B Bore size

C Cushion

D Stroke

E Switch model No.
*3

F Switch quantity

G Switch mounting

H Option
*4

I Accessory
*5

Code	Description
A Mounting	
	Bore size (ø)
00	Basic
LB	Axial foot
FA	Rod side flange
FB	Head side flange
CA	Eye bracket
TA	Rod side trunnion
TB	Head side trunnion
B Bore size (mm)	
20	ø20
25	ø25
32	ø32
40	ø40
C Cushion	
B	With two-sided air cushion
R	Rod side air cushioned
H	Head side air cushioned
D	With two-sided rubber cushion
D Stroke (mm)	
Bore size	Stroke *2
ø20 to ø40	10 to 150
	Custom stroke
	In 1 mm increments
E Switch model No.	
Refer to the compatibility table on pages 210 to 213 for switch model No.	
F Switch quantity	
R	1 on rod side
H	1 on head side
D	2
T	3
4	4 pcs. Included (when there are more than 4 switches, indicate switch quantity.)
G Switch mounting	
Blank	Rail method
Z	Band method
H Option	
Q	Switch rail attached at shipment
M	Piston rod, rod nut material (stainless steel)
I Accessory	
	Bore size (ø)
I	Rod eye
Y	Rod clevis (pin and snap ring attached)
B2	Clevis bracket

⚠ Precautions for model No. selection

*1: Mounting bracket will be shipped with the product.

*2: Refer to the previous page for the min. stroke.

*3: When the bore size is ø20 to ø40 and switch mounting is the rail type, SW19, SWBW, SWCC, SWDK, SWDL, and SWDM cannot be mounted.

*4: "Q" (switch rail attached at shipment) is not available for "Z" switch mounting.

*5: "I" and "Y" cannot be selected together.

*6: Refer to "Pneumatic Cylinders I (Catalog No.CB-029SA)" for made-to-order specifications of rod end form.

*7: Switches are shipped with the product. Contact CKD if assembling before shipment is necessary.

*8: Speed controllers are available as a related product. Contact CKD for details.

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 tool info. processes
CMK2	
SCM	
SCG	
SSD2	
STG	