

Series variation

Pencil shaped cylinder SCP*3 Series

SCP*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/
COVPIN2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/
MSDG

FC*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd
Contr

Ending

Variation	Model No. JIS symbol	Bore size (mm)	Standard stroke (mm)				
			15	30	45	60	
Double acting/ single rod	SCPD3 SCPD3-L	 ø6 ø10 ø16	●	●	●	●	
			●	●	●	●	
			●	●	●	●	
Single acting/push	SCPS3 SCPS3-L	 ø6 ø10/ø16	●	●	●	●	
			●	●	●	●	
Single acting/pull	SCPH3 SCPH3-L	 ø6 ø10/ø16	●	●	●	●	
			●	●	●	●	
Double acting/heat resistant	SCPD3-T	 ø6 ø10 ø16	●	●	●	●	
			●	●	●	●	
			●	●	●	●	
Double acting/ rubber-air cushioned	SCPD3-*C SCPD3-L-*C	 ø6 ø10 ø16	●	●	●	●	
			●	●	●	●	
			●	●	●	●	
Double acting/fine speed	SCPD3-F SCPD3-LF	 ø6 ø10 ø16	●	●	●	●	
			●	●	●	●	
			●	●	●	●	
Double acting/low speed	SCPD3-O SCPD3-OL	 ø6 ø10 ø16	●	●	●	●	
			●	●	●	●	
			●	●	●	●	
Double acting/ double rod	SCPD3-D SCPD3-DL	 ø6 ø10/ø16	●	●	●	●	
			●	●	●	●	
Single acting/ rotation-stop	SCPS3-M SCPS3-ML	 ø10/ø16	●	●	●	●	
Double acting/ rotation-stop	SCPD3-M SCPD3-ML	 ø10 ø16	●	●	●	●	
			●	●	●	●	

Made to order

The following variations are also available.

Variation	Model No.	Bore size (mm)	Page	Variation	Model No.	Bore size (mm)	Page
Double acting/ with valve	SCPD3-V SCPD3-VL	ø10 ø16	70	Double acting/with speed controller	SCPD3-Z SCPD3-ZL	ø10 ø16	50
Single acting/ with valve	SCPS3-V SCPS3-VL	ø10 ø16	70	Double acting/ double rod/heat resistance	SCPD3-DT	ø6 ø10 ø16	44
Double acting/ high load	SCPD3-K SCPD3-KL	ø6 ø10 ø16	64				
				Double acting/ clean-room specifications	SCPD3-.....P7* SCPD3-.....P5*	ø6 ø10 ø16	Catalog No. CB-033SA

●: Standard, ◎: Option, ○: Made to order, ■: Not available

	Min. stroke (mm)	Max. stroke (mm)	Available stroke (mm)	Custom stroke (per mm)	Mounting					Option	Accessory				Switch	Page	
					Basic	Two-sided axial foot	Axial foot (one side) Rod side	Rod side flange	Clevis bracket	Copper and PTFE free	Rod eye	Rod clevis	Eye bracket	Clevis bracket			
																	00
	5	100	105	1	●		●	●		●					◎	8	
		200	210		●		●	●	●	●	○	○	○	○			
		260	270		●		●	●	●	●	○	○	○	○			
	5	100	105	1	●		●	●		●					◎	16	
		120	120		●		●	●	●	●	○	○	○	○			
	5	100	105	1	●		●	●		●					◎	16	
		120	120		●		●	●	●	●	○	○	○	○			
	5	100	100	1	●		●	●								26	
		200	200		●		●	●	●		○	○	○	○			
		260	260		●		●	●	●		○	○	○	○			
	5	100	100	1	●		●	●		●					◎	28	
		200	200		●		●	●	●			○	○	○			○
		260	260		●		●	●	●			○	○	○			○
	5	100	100	1	●		●	●							◎	34	
		200	200		●		●	●	●		○	○	○	○			
		260	260		●		●	●	●		○	○	○	○			
	5	100	100	1	●		●	●							◎	40	
		200	200		●		●	●	●		○	○	○	○			
		260	260		●		●	●	●		○	○	○	○			
	5	60	60	1	●	●	●	●		●					◎	44	
		120	120		●	●	●	●		●	○	○					
	5	120	120	1	●		●	●	●	●	○	○	○	○	◎	56	
	5	200	210	1	●		●	●	●	●	○	○	○	○	◎	56	
		260	270		●		●	●	●	●	●	○	○	○			○

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Spd Contr
Ending

Variation and option combination selection table

◎: Option
 ○: Available (made-to-order product)
 △: Available depending on conditions (Contact CKD.)
 x: Not available

Category	Code	Category	Variation												Port thread		Cushion		Option					
			Double acting single rod	Single acting push	Single acting pull	Double acting double rod	Rotation-stop	With speed controller	With valve	With cylinder switch	High load	Heat resistance (120°C)	Low speed	Fine speed	NPT	G	Rubber-air cushioned		Rod nut material stainless steel	Axial port position	Copper and PTFE free	Clean-room specifications (exhaust port)	Clean-room specifications (vacuum treatment)	Specify piston rod end form
			None	S	H	D	M	Z	V	L	K	T	O	F	N	G	C		M	O	P6	P7	P71	N*
SSG	Double acting single rod	SCPD3	*1	*1											x	x			○	◎	*5	○	○	○
	Single acting push	SCPS3			x	◎	x	○	◎	x	x	x	x		x	x	x		○	◎	*5	x	x	○
	Single acting pull	SCPH3			x	x	x	x	◎	x	x	x	x		x	x	x		○	x	*5	x	x	○
SSD	Double acting double rod	SCPD3-D				◎	○	x	◎	○	○	*2	*2		x	x	○		○	x	*5	○	○	○
	Rotation-stop	M						x	○	◎	x	x	*2	x	x	x	○		○	◎	*5	x	x	○
CAT	With speed controller	Z						x	○	○	x	x	○	x	x	x	x		○	○	*5	x	x	○
	With valve	V								○	○	x	x	x	x	x	x		○	*6	○	x	x	○
MDC2	With cylinder switch	L								○	x	◎	◎		x	x	◎		○	○	*5	○	○	○
	High load	K									x	*2	*2		x	x	○		○	○	x	x	x	○
MVC	Heat resistance (120°C)	T									x	x			x	x	x		○	◎	x	x	x	○
	Low speed	O											x		x	x	*4		○	◎	x	*2	○	○
SMG	Fine speed	F													x	x	*4		○	○	x	*2	○	○
MSD/MSDG																								
FC*	NPT	N													x		x		x	x	x	x	x	x
	G	G															x		x	x	x	x	x	x
STK																								
SRL3	Rubber-air cushioned	C																	○	◎	*5	○	○	○
SRG3																								
SRM3	Rod nut material stainless steel	M																	○	○	○	○	○	*3
	Axial port position	O																		◎			○	○
	Copper and PTFE free	P6																				x	x	○
	Clean-room specifications (exhaust port)	P7																					x	○
	Clean-room specifications (vacuum treatment)	P71																						○
SRT3	Specify piston rod end form	N**																						
MRL2																								
MRG2	Cylinder switch	Listed separately	◎	◎	◎	◎	◎	○	○	◎	○	x	◎	◎					◎	◎	◎	○	○	◎
	Rod eye	I	◎	◎	◎	◎	◎	○	○	◎	○	◎	◎	◎					◎	◎	◎	x	x	*3
	Rod clevis	Y	◎	◎	◎	◎	◎	○	○	◎	○	◎	◎	◎					◎	◎	◎	x	x	*3
	B1 bracket	B1	◎	◎	◎	◎	◎	○	○	◎	○	◎	◎	◎					◎	◎	◎	x	x	◎
	B2 bracket	B2	◎	◎	◎	◎	◎	○	○	◎	○	◎	◎	◎					◎	◎	◎	x	x	◎
ShkAbs																								

Caution

*1 : Available when the single acting (S/H) is used as double acting. The total length will be longer if the single acting is used as reference.

*2 : The friction resistance will be higher than that of the standard low speed (or fine speed).

Check the working conditions and consult with CKD.

*3 : Consult with CKD if the piston rod end thread size changes.

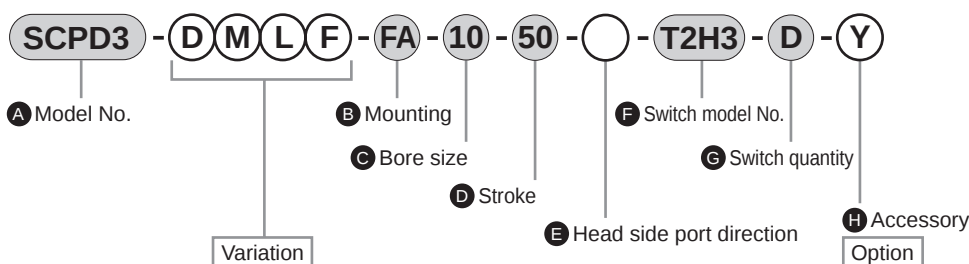
*4 : The expected low speed performance cannot be obtained in the cushion area.

*5 : Copper and PTFE free as standard. (P6 code is not required.)

*6 : The type with valve is available only for the axial port position. (O code is not required.)

*7 : For P7 and P71 clean room specifications, refer to "Components for clean room specifications" (catalog No. CB-033SA).

[Example of model No.]



* Indicate codes from left to right in the left table.
* For fine speed, insert "F" after the switch code.

A Model No.	: Pencil shaped cylinder
● Variation	: Double rod/rotation-stop/with switch/fine speed
B Mounting	: Rod side flange
C Bore size	: $\phi 10$ mm
D Stroke	: 50 mm
E Head side port direction	: Vertical direction
F Switch model No.	: Proximity switch T2H, lead wire length 3 m
G Switch quantity	: 2 pcs. included
H Accessory	: Rod clevis

* Option: None

Product introduction

Renewal!

Space saving with compact standard switch "T Series"

New

Half height switch

[SCP*2 M type switch] [SCP*3 T type switch]

Compatible with SCP*2 Series

The cylinder installation dimensions and rod end thread size are compatible with those of SCP*2 Series.

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CMK2
CMA2
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SCA2
SCS2
CKV2
CAV2/COVP/IN2
SSD2
SSG
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CAT
MDC2
MVC
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MSD/MSDG
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STK
SRL3
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Ending