SCA2-W Series

How to order

Total stroke S1
1st stage stroke S2

No switch (built-in magnet for switch)

SCA2-W - **LB** - **40** - ◯ **B 150** — — — ◯ **B 50** — — **S** **I**

With switch (built-in magnet for switch)

SCA2-W - ◯ **LB** - **40** - ◯ **B 150** - **T0H** - **D** - ◯ **B 50** - **T0H** - **R** - **S** ◯ **I**

Cylinder 1 | Cylinder 2

Ⓐ Mounting *1

Ⓑ Bore size

Ⓒ Port thread | Ⓒ Port thread

Ⓓ Cushion | Ⓓ Cushion
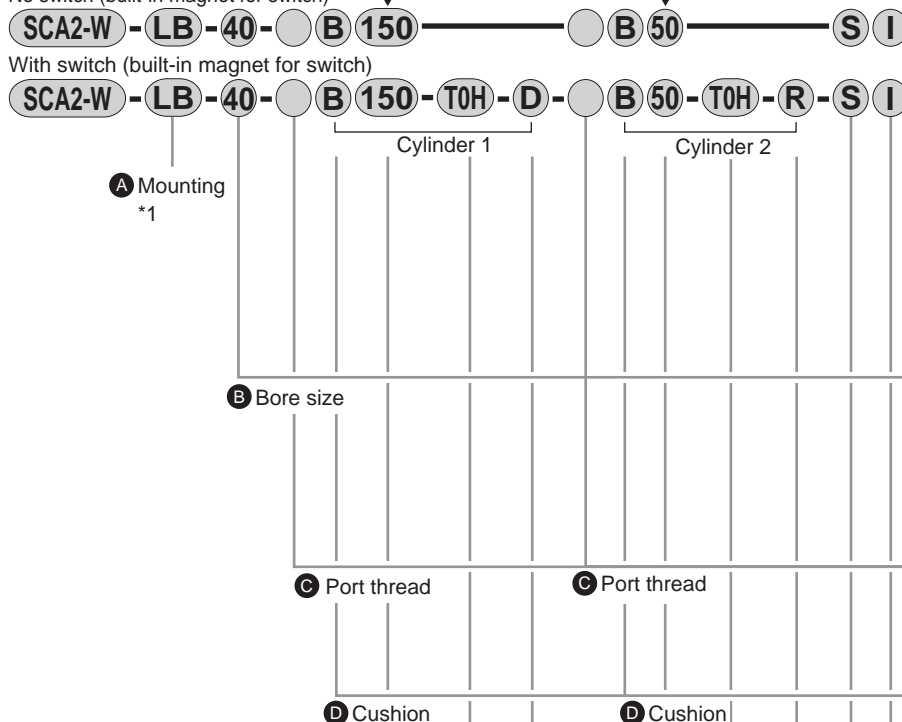
⚠ Precautions for model No. selection

*1 : Mounting bracket will be shipped with the product. (Trunnion are assembled at shipment.)
*2 : If the stroke exceeds the max. stroke, refer to Ending Page 69.
*3 : The max. stroke of S2 (1st stage) is 200 mm.
*4 : Refer to pages 556 and 557 for the min. stroke with switch.
*5 : Switches are shipped with the product.
*6 : When selecting TA, TD, TB or TE mounting, the switch quantity is limited to "H" (1 on head side) for TA and TD, and "R" (1 on rod side) for TB and TE.
*7 : The instantaneous max. temperature is the temperature when sparks and cutting chips, etc., instantaneously contact the bellows.
*8 : When selecting TA, TD, TB or TE mounting format, the cushion needle position is blank and fixed at S, with no options available.
*9 : "I" and "Y" cannot be selected together.
*10 : Refer to Ending Page 85 for custom specifications of rod end form.
*11 : Refer to page 448 for combinations of variations/options.

Ⓔ Stroke *2 | Ⓔ Stroke *3

Ⓕ Switch model No. *5 | Ⓕ Switch model No.

Ⓖ Switch quantity *6 | Ⓖ Switch quantity

Ⓗ Option *7 *8

Ⓘ Accessory *9

[Example of model No.]
SCA2-W-LB-40-B150-T0H-D-B50-T0H-R-SI

Model: Medium bore size cylinder, double acting/2-stage

Ⓐ Mounting	: Axial foot	
Ⓑ Bore size	: ø40 mm	Cylinder 1
Ⓒ Port thread	: Rc thread	
Ⓓ Cushion	: Both sides cushioned	
Ⓔ Stroke S1	: 150 mm	
Ⓕ Switch model No.	: Reed T0H switch, Lead wire 1m	
Ⓖ Switch quantity	: 2	
Ⓒ Port thread	: Rc thread	
Ⓓ Cushion	: Both sides cushioned	Cylinder 2
Ⓔ Stroke S2	: 50 mm	
Ⓕ Switch model No.	: Reed T0H switch, Lead wire 1m	
Ⓖ Switch quantity	: 1 on rod side	
Ⓗ Option	: Cushion needle position S	
Ⓘ Accessory	: Rod eye	
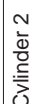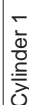
1st stage stroke : 50 mm indicated by S2
+ 2nd stage stroke : 100 mm
Total stroke : 150 mm indicated by S1

S1   S2
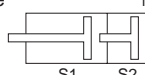
Code	Description
Ⓐ Mounting	
00	Basic
LB	Axial foot
FA	Rod side flange
FB	Head side flange
FC	Head side special flange
CA	Eye bracket
CB	Clevis bracket (pin and snap ring included)
TA	Rod side trunnion
TB	Head side trunnion
TD	Rod side hole trunnion (ø40 is not available)
TE	Head side hole trunnion (ø40 is not available)

Code	Description
Ⓑ Bore size (mm)	
40	ø40
50	ø50
63	ø63
80	ø80
100	ø100

Code	Description
Ⓒ Port thread	
Blank	Rc thread
N	NPT thread (made-to-order product)
G	G thread (made-to-order product)

Code	Description
Ⓓ Cushion	
B	Both sides cushioned
R	Rod side cushioned
H	Head side cushioned
N	Without cushion

Ⓔ Stroke (mm)

Bore size	Stroke *4	Custom stroke
ø40	**2 to 600**	
ø50	**2 to 600**	**In 1 mm increments**
ø63	**2 to 600**	
ø80	**2 to 700**	
ø100	**2 to 800**	

Ⓕ Switch model No.
Refer to the switch model numbers on the next page.

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

Ⓖ Switch quantity

Code	Description
R	1 on rod side
H	1 on head side
D	2
T	3

Ⓗ Option

		Max. ambient temp.	Instantaneous max. temp.
J	Bellows	100°C	200°C
L	Bellows	250°C	400°C
M	Piston rod material (stainless steel)		
Blank	Cushion needle position R (standard)		
S	Cushion needle position S		
T	Cushion needle position T		
P6	Copper and PTFE free (made-to-order product)		

Ⓘ Accessory

Code	Description
I	Rod eye
Y	Rod clevis (pin and snap ring included)
B1	Eye bracket
B2	Clevis bracket (pin and snap ring included)
B3	Eye bracket
B4	Trunnion No. 2 bracket (2 pcs./set)

CKD

[F] Switch model No.

Axial lead wire	Radial lead wire	Contact	Voltage AC	Voltage DC	Indicator	Lead wire
T0H*	T0V*	Reed	●	●	1-color LED	
T5H*	T5V*	Reed	●	●	No indicator lamp	2-wire
T8H*	T8V*	Reed	●	●	1-color LED	
T1H*	T1V*	Proximity	●		1-color LED	2-wire
T2H*	T2V*	Proximity		●	1-color LED	2-wire
T3H*	T3V*	Proximity		●		3-wire
T2WH*	T2WV*	Proximity		●		2-wire
T2YH*	T2YV*	Proximity		●	2-color LED	2-wire
T3WH*	T3WV*	Proximity		●		3-wire
T3YH*	T3YV*	Proximity		●		3-wire
T3PH*	T3PV*	Proximity		●	1-color LED	3-wire
T2YD*	-	Proximity		●	2-color LED	2-wire
T2YDT*	-	Proximity		●	(AC magnetic field)	2-wire
T2JH*	T2JV*	Proximity		●	Off-delay	2-wire

T-switch model No.

How to order switch

[T-switch]

● Switch body + mounting bracket set

SCA2 - T0H - 40

Switch model No. (Item (F))　　Bore size (Item (B) on page 560)

● Switch body only

SW - T0H
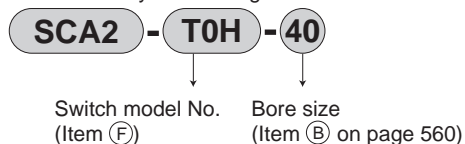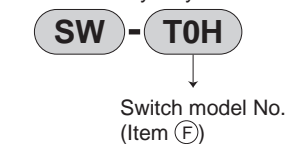
Switch model No. (Item (F))
* Contact CKD when using an environment-friendly T-switch.

● Switch mounting bracket set
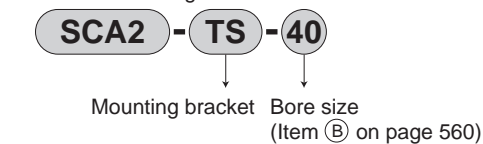
SCA2 - TS - 40

Mounting bracket　　Bore size (Item (B) on page 560)

[T2YD switch]

● Switch body + mounting bracket set

SCA2 - T2YD - 40

Switch model No. (Item (F))　Bore size (Item (B) on page 560)

● Switch body only

SW - T2YD

Switch model No. (Item (F))

● Mounting bracket set

SCA2 - T - 40

Bore size (Item (B) on page 560)
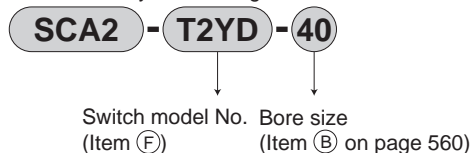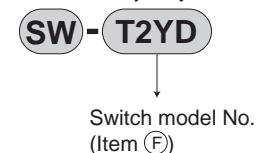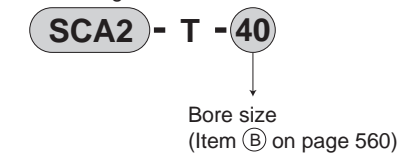
How to order mounting bracket

Bore size (mm) / Mounting bracket	ø40	ø50	ø63	ø80	ø100
Foot (LB) *2	S1-LB-40	S1-LB-50	S1-LB-63	S1-LB-80	S1-LB-100
Flange (FA/FB)	S1-FA-40	S1-FA-50	S1-FA-63	S1-FA-80	S1-FA-100
Eye bracket (CA)	S1-CA-40	S1-CA-50	S1-CA-63	S1-CA-80	S1-CA-100
Clevis bracket (CB)	S1-CB-40	S1-CB-50	S1-CB-63	S1-CB-80	S1-CB-100

*1: For material of the mounting bracket, refer to page 456.
*2: The foot mounting bracket is provided as 2 pcs./set.
*3: All mounting brackets are supplied with mounting bolts.