

How to order

No switch (built-in magnet for switch)

SCG-Q-LB-40-B-100-H-M1-I

With switch (built-in magnet for switch)

SCG-Q-LB-40-B-100-H-T2H-R-M1-I

Model No.

A Mounting
*1

B Bore size

C Port thread

D Cushion

E Stroke

F Position locking mechanism

G Switch model No.

H Switch quantity
*3

I Option
*4
*5

J Accessory
*6

⚠ Precautions for model No. selection

*1 : Mounting bracket will be shipped with the product.
(Trunnion are assembled at shipment.)

TA mounting with R position locking mechanism is not available.

TB mounting with H position locking mechanism is not available.

*2 : Refer to pages 374 and 375 for the min. stroke with switch.

*3 : When selecting TA or TB as mounting, the number of switches is limited to "H" (1 on head side) for TA, and "R" (1 on rod side) for TB.

*4 : The instantaneous max. temperature is the temperature when sparks, cutting chips, etc., instantaneously contact the bellows.

*5 : Only non-locking manual override unless "M0" or "M1" of
• Option is selected. Release bolt is not included.

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

[Example of model No.]

SCG-Q-LB-40B-100-H-T2H-D-I

Model: Tie rod cylinder, double acting/position locking

- A** Mounting : Axial foot
B Bore size : ø40 mm
C Port thread : Rc thread
D Cushion : With two-sided air cushion
E Stroke : 100 mm
F Position locking mechanism : With head side position locking
G Switch model No. : Proximity T2H switch, lead wire 1 m
H Switch quantity : 2
I Option : Basic position locking
J Accessory : Rod eye (included product)

Code	Description
A Mounting	
00	Basic
LB	Axial foot
FA	Rod side flange
FB	Head side flange
CA	Eye bracket
CB	Clevis bracket (pin and split pin included)
TA	Rod side trunnion
TB	Head side trunnion
TC	Intermediate trunnion

B Bore size (mm)	
32	ø32
40	ø40
50	ø50
63	ø63
80	ø80
100	ø100

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

D Cushion	
B	Two-sided air cushion (basic)

E Stroke (mm)			
Bore size	Stroke *2	Available stroke	Custom stroke
ø32	5 to 600	700	In 1 mm increments
ø40		800	
ø50		1200	
ø63	5 to 700	1400	
ø80		1500	
ø100	5 to 800		

F Position locking mechanism	
H	With head side position locking
R	With rod side position locking

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

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

H Switch quantity	
R	1 on rod side
H	1 on head side
D	2
T	3

I Option	
Blank	Basic position locking
M0	Non-locking manual override (with release bolt)
M1	Locking manual override
M	Piston rod material (stainless steel)
P6	Copper and PTFE free

J Accessory	
I	Rod eye
Y	Rod clevis (pin and split pin included)
B1	Eye bracket
B2	Clevis bracket (pin and split pin included)
B3	Eye bracket
B4	Trunnion No. 2 bracket (2 pcs./set)

How to order switch

- Switch body + mounting bracket set

SCG - T0H - 40

Switch model No.
(Item ⑥ on page 376)

Bore size
(Item ⑧ on page 376)

- Switch body only

SW - T0H

Switch model No.
(Item ⑥ on page 376)

Note: Contact CKD when using an environment-friendly T-switch.

- Switch mounting bracket set

SCG - T - 40

Mounting bracket

Bore size
(Item ⑧ on page 376)

How to order mounting bracket

Bore size (mm)	ø32	ø40	ø50	ø63	ø80	ø100
Mounting bracket						
Foot (LB)	SCG-LB-32	SCG-LB-40	SCG-LB-50	SCG-LB-63	SCG-LB-80	SCG-LB-100
Flange (FA) (FB)	SCG-FA-32	SCG-FA-40	SCG-FA-50	SCG-FA-63	SCG-FA-80	SCG-FA-100
Eye bracket (CA)	SCG-CA-32	SCG-CA-40	SCG-CA-50	SCG-CA-63	SCG-CA-80	SCG-CA-100
Clevis bracket (CB)	SCG-CB-32	SCG-CB-40	SCG-CB-50	SCG-CB-63	SCG-CB-80	SCG-CB-100

*1: The foot mounting bracket (LB) is provided as 2 pcs./set.

*2: All mounting brackets are supplied with mounting bolts.

Specifications for rechargeable battery

(Catalog No. CC-1226A)

- Design is compatible with rechargeable battery manufacturing process.

SCG-Q-...- **P4***

* Contact CKD for details.

Theoretical thrust table

(Unit: N)

Bore size (mm)	Operating direction	Working pressure MPa									
		0.15	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
ø32	Push	1.21x10 ²	1.61x10 ²	2.41x10 ²	3.22x10 ²	4.02x10 ²	4.83x10 ²	5.63x10 ²	6.43x10 ²	7.24x10 ²	8.04x10 ²
	Pull	1.04x10 ²	1.38x10 ²	2.07x10 ²	2.76x10 ²	3.46x10 ²	4.15x10 ²	4.84x10 ²	5.53x10 ²	6.22x10 ²	6.91x10 ²
ø40	Push	1.88x10 ²	2.51x10 ²	3.77x10 ²	5.03x10 ²	6.28x10 ²	7.54x10 ²	8.80x10 ²	1.01x10 ³	1.13x10 ³	1.26x10 ³
	Pull	1.58x10 ²	2.11x10 ²	3.17x10 ²	4.22x10 ²	5.28x10 ²	6.33x10 ²	7.39x10 ²	8.44x10 ²	9.50x10 ²	1.06x10 ³
ø50	Push	2.95x10 ²	3.93x10 ²	5.89x10 ²	7.85x10 ²	9.82x10 ²	1.18x10 ³	1.37x10 ³	1.57x10 ³	1.77x10 ³	1.96x10 ³
	Pull	2.47x10 ²	3.30x10 ²	4.95x10 ²	6.60x10 ²	8.25x10 ²	9.90x10 ²	1.15x10 ³	1.32x10 ³	1.48x10 ³	1.65x10 ³
ø63	Push	4.68x10 ²	6.23x10 ²	9.35x10 ²	1.25x10 ³	1.56x10 ³	1.87x10 ³	2.18x10 ³	2.49x10 ³	2.81x10 ³	3.12x10 ³
	Pull	4.20x10 ²	5.61x10 ²	8.41x10 ²	1.12x10 ³	1.40x10 ³	1.68x10 ³	1.96x10 ³	2.24x10 ³	2.52x10 ³	2.80x10 ³
ø80	Push	7.54x10 ²	1.01x10 ³	1.51x10 ³	2.01x10 ³	2.51x10 ³	3.02x10 ³	3.52x10 ³	4.02x10 ³	4.52x10 ³	5.03x10 ³
	Pull	6.80x10 ²	9.07x10 ²	1.36x10 ³	1.81x10 ³	2.27x10 ³	2.72x10 ³	3.17x10 ³	3.63x10 ³	4.08x10 ³	4.54x10 ³
ø100	Push	1.18x10 ³	1.57x10 ³	2.36x10 ³	3.14x10 ³	3.93x10 ³	4.71x10 ³	5.50x10 ³	6.28x10 ³	7.07x10 ³	7.85x10 ³
	Pull	1.07x10 ³	1.43x10 ³	2.14x10 ³	2.86x10 ³	3.57x10 ³	4.29x10 ³	5.00x10 ³	5.72x10 ³	6.43x10 ³	7.15x10 ³