

How to order

No switch (built-in magnet for switch)

SCG-G-LB-40-B-100-M-I

With switch (built-in magnet for switch)

SCG-G-LB-40-B-100-T2H-R-M-I

Model No.

A Mounting
*1

B Bore size

C Port thread

D Cushion

E Stroke

F Switch model No.

G Switch quantity

*3

H Option

I Accessory
*4

⚠ Precautions for model No. selection

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

*2 : Refer to pages 418 and 419 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 : "I" and "Y" cannot be selected together.

[Example of model No.]

SCG-G-LB-40B-100-T2H-D-MI

Model: Tie rod cylinder, double acting/rubber scraper

- 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** Switch model No. : Proximity T2H switch, lead wire 1 m
- G** Switch quantity : 2
- H** Option : Piston rod material (stainless steel)
- I** 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)					
D	Two-sided rubber cushion					
Note: The rubber cushion has a longer total length than the air cushion						
E Stroke (mm)						
Bore size		Stroke *2	Available stroke	Custom stroke		
ø32		1 to 600	700	In 1 mm increments		
ø40			800			
ø50			1200			
ø63						
ø80		1 to 700	1400			
ø100		1 to 800	1500			
F 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		
T1H*	T1V*	Proximity	●		2-wire	
T2H*	T2V*			●	1-color LED	3-wire
T3H*	T3V*			●	1-color LED	3-wire
T3PH*	T3PV*			●	2-color LED	2-wire
T2WH*	T2WV*			●		3-wire
T2YH*	T2YV*			●		
T3WH*	T3WV*			●		
T3YH*	T3YV*			●		
T2YD*	-			●	2-color LED	2-wire
T2YDT*	-			●	for AC magnetic field	
T2JH*	T2JV*		●	1-color LED off-delay	2-wire	
* Lead wire length						
Blank	1 m (standard)					
3	3 m (option)					
5	5 m (option)					
G Switch quantity						
R	1 on rod side					
H	1 on head side					
D	2					
T	3					
H Option						
M	Piston rod material (stainless steel)					
P6	Copper and PTFE free					
I 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 ⑤ on page 420)

Bore size
(Item ⑥ on page 420)

- Switch body only

SW - T0H

Switch model No.
(Item ⑤ on page 420)

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

- Switch mounting bracket set

SCG - T - 40

Mounting
bracket

Bore size
(Item ⑥ on page 420)

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.

Theoretical thrust table

(Unit: N)

Bore size (mm)	Operating direction	Working pressure MPa										
		0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
ø32	Push	80.4	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	69.1	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	1.26x10 ²	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	1.06x10 ²	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	1.96x10 ²	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	1.65x10 ²	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	3.12x10 ²	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	2.80x10 ²	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	5.03x10 ²	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	4.54x10 ²	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	7.85x10 ²	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	7.15x10 ²	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