

How to order

No switch (built-in magnet for switch)

SCG-U-LB-32-N-100-M-I

With switch (built-in magnet for switch)

SCG-U-LB-32-N-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 402 and 403 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-U-LB-40N-100-T2H-D-MI

Model: Tie rod cylinder, double acting/low friction (constant friction when pressurized)

- A** Mounting : Axial foot
- B** Bore size : ø40 mm
- C** Port thread : Rc thread
- D** Cushion : Without 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	
N	Without cushion

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

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	●	1-color LED	2-wire	
T2H*	T2V*		●		3-wire	
T3H*	T3V*		●	1-color LED	3-wire	
T3PH*	T3PV*		●		3-wire	
T2WH*	T2WV*		●	2-color LED	2-wire	
T2YH*	T2YV*		●		3-wire	
T3WH*	T3WV*		●			
T3YH*	T3YV*		●	2-color LED	2-wire	
T2YD*	-		●		2-wire	
T2YDT*	-		●	AC magnetic field	2-wire	
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)

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 404)

Bore size

(Item ⑥ on page 404)

- Switch body only

SW - T0H

Switch model No.

(Item ⑤ on page 404)

- Switch mounting bracket set

SCG - T - 40

Mounting
bracket

Bore size
(Item ⑥ on page 404)

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

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) *1	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								
		0.03	0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7
ø32	Push	24.1	80.4	1.21x10 ²	1.61x10 ²	2.41x10 ²	3.22x10 ²	4.02x10 ²	4.83x10 ²	5.63x10 ²
	Pull	20.7	69.1	1.04x10 ²	1.38x10 ²	2.07x10 ²	2.76x10 ²	3.46x10 ²	4.15x10 ²	4.84x10 ²
ø40	Push	37.8	1.26x10 ²	1.88x10 ²	2.51x10 ²	3.77x10 ²	5.03x10 ²	6.28x10 ²	7.54x10 ²	8.80x10 ²
	Pull	31.8	1.06x10 ²	1.58x10 ²	2.11x10 ²	3.17x10 ²	4.22x10 ²	5.28x10 ²	6.33x10 ²	7.39x10 ²
ø50	Push	58.8	1.96x10 ²	2.95x10 ²	3.93x10 ²	5.89x10 ²	7.85x10 ²	9.82x10 ²	1.18x10 ³	1.37x10 ³
	Pull	49.5	1.65x10 ²	2.47x10 ²	3.30x10 ²	4.95x10 ²	6.60x10 ²	8.25x10 ²	9.90x10 ²	1.15x10 ³
ø63	Push	93.6	3.12x10 ²	4.68x10 ²	6.23x10 ²	9.35x10 ²	1.25x10 ³	1.56x10 ³	1.87x10 ³	2.18x10 ³
	Pull	84.0	2.80x10 ²	4.20x10 ²	5.61x10 ²	8.41x10 ²	1.12x10 ³	1.40x10 ³	1.68x10 ³	1.96x10 ³
ø80	Push	1.51x10 ²	5.03x10 ²	7.54x10 ²	1.01x10 ³	1.51x10 ³	2.01x10 ³	2.51x10 ³	3.02x10 ³	3.52x10 ³
	Pull	1.36x10 ²	4.54x10 ²	6.80x10 ²	9.07x10 ²	1.36x10 ³	1.81x10 ³	2.27x10 ³	2.72x10 ³	3.17x10 ³
ø100	Push	2.36x10 ²	7.85x10 ²	1.18x10 ³	1.57x10 ³	2.36x10 ³	3.14x10 ³	3.93x10 ³	4.71x10 ³	5.50x10 ³
	Pull	2.15x10 ²	7.15x10 ²	1.07x10 ³	1.43x10 ³	2.14x10 ³	2.86x10 ³	3.57x10 ³	4.29x10 ³	5.00x10 ³

Dimensions

Same as SCG Series (double acting/single rod). Refer to pages 363 to 371.