

How to order

No switch (built-in magnet for switch)

SCG-D-LB-32-B-100-J-Y

With switch (built-in magnet for switch)

SCG-D-LB-32-B-100-T2H-R-J-Y

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
*4

I Accessory

⚠ Precautions for model No. selection

*1 : Mounting bracket will be shipped with the product.
(If the product is the trunnion (TA, TB or TC) with bellows and the mounting bracket is LB or FA, it will be attached with the product.)

*2 : Refer to pages 406 and 407 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.

[Example of model No.]

SCG-D-LB-40B-100-T2H-D-JI

Model: Tie rod cylinder, double acting/double rod

- 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 : With bellows
- I** Accessory : Rod eye (included product)

Code	Description
A Mounting	
00	Basic
LB	Axial foot
FA	Rod side flange
FB	Head side flange
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	Custom stroke
ø32	1 to 600	In 1 mm increments
ø40		
ø50		
ø63		
ø80	1 to 700	
ø100	1 to 800	

F Switch model No.						
Axial lead wire	Radial lead wire	Contact	Voltage	Indicator	Lead wire	
			AC DC			
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*		●			
T2WH*	T2WV*		●	2-color LED	2-wire	
T2YH*	T2YV*		●		3-wire	
T3WH*	T3WV*		●			
T3YH*	T3YV*		●			
T2YD*	-		●	2-color LED for AC magnetic field	2-wire	
T2YDT*	-		●			
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			
		Max. ambient temp.	Instantaneous ambient temp.
J	Bellows	100°C	200°C
M	Piston rod material (stainless steel)		
P6	Copper and PTFE free		

I Accessory	
I	Rod eye
Y	Rod clevis (pin and split pin included)
B4	Trunnion No. 2 bracket (2 pcs./set)

How to order switch

- Switch body + mounting bracket set

SCG - T0H - 40

Switch model No.

(Item ㉔ on page 408)

Bore size

(Item ㉕ on page 408)

- Switch body only

SW - T0H

Switch model No.

(Item ㉔ on page 408)

- Switch mounting bracket set

SCG - T - 40

Mounting bracket

Bore size (Item ㉕ on page 408)

Note: Contact CKD when using an environment-friendly T type 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

*1: Specify the flange (FA or FB) with bellows as "SCG-FA-(bore size)-J".

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

*3: 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/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/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/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/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/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/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