

SCS2-H Series

How to order

No switch (without magnet for switch)

SCS2-H - **LB** - **125** - **B** - **50** - **J** **Y**

With switch (built-in magnet for switch)

SCS2-LH - **LB** - **125** - **B** - **50** - **T0H** - **R** - **J** **Y**

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
*6

⚠ Precautions for model No. selection

*1 : Supporting hole is available custom made for ø125 to 160 only. Contact CKD for details about dimensions.

*2 : Refer to page 662 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 : Check the figures below for the cushion needle position indication.

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

*7 : Refer to page 667 for details.

[Example of model No.]

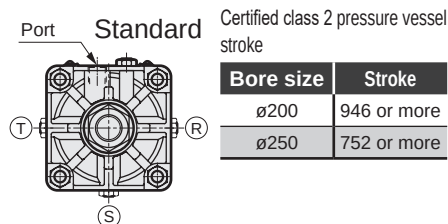
SCS2-LH-LB-125B-50-T0H-R-JY

Model: Large bore size cylinder, double acting/low hydraulic with switch

- A** Mounting : Axial foot
- B** Bore size : ø125 mm
- C** Port thread : Rc thread
- D** Cushion : With two-sided air cushion
- E** Stroke : 50 mm
- F** Switch model No.: Proximity T0H switch, lead wire 1 m
- G** Switch quantity : 1 on rod side
- H** Option : Bellows material for max. ambient temperature 100°C
- I** Accessory : Rod clevis

Cushion needle position

(Needle position with the port on the top when viewed from the rod end)



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 snap ring included)
TC	Intermediate trunnion
TA	Rod side trunnion
TB	Head side trunnion

B Bore size (mm)	
125	ø125
140	ø140
160	ø160
180	ø180
200	ø200
250	ø250

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

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

E Stroke (mm)		
Bore size	Stroke *2	Custom stroke
ø125 to ø160	20 to 800	In 1 mm increments
ø180	20 to 900	
ø200	20 to 1000	
ø250	20 to 1200	

F Switch model No.					
Axial lead wire	Radial lead wire	Contact	Voltage AC DC	Indicator	Lead wire
T0H*	T0V*	Reed	● ●	1-color LED	2-wire
T5H*	T5V*	Reed	● ●	No indicator lamp	
T8H*	T8V*	Reed	● ●	1-color LED	
T1H*	T1V*	Proximity	●	1-color LED	2-wire
T2H*	T2V*		●		
T3H*	T3V*		●	1-color LED (PNP output)	3-wire
T3PH*	T3PV*		●		
T2WH*	T2WV*		●	2-color LED	2-wire
T2YH*	T2YV*		●		
T3WH*	T3WV*		●		
T3YH*	T3YV*		●	2-color LED	3-wire
T2YD*	-		●		
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
4	4

H Option	
C2 With cushion section check valve	
J	Bellows
L	Bellows
M	Piston rod material (stainless steel)
Blank	Cushion needle position (standard)
R	Cushion needle position R
S	Cushion needle position S
T	Cushion needle position T
P6	Copper and PTFE free (made to order)

I Accessory	
I	Rod eye
Y	Rod clevis (pin and snap ring included)
B1	Eye bracket
B2	Clevis bracket (pin and snap ring included)

Made-to-order product code	
-SO92	SCS-LH compatible mounting dimensions

How to order switch

● Switch body + mounting bracket set

SCS2-LN - T0H - 125

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Bore size (Item ⑧ on page 664)

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Switch model No. (Item ⑨ on page 664)

● Switch body only

SW - T0H

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Switch model No. (Item ⑨ on page 664)

● Mounting bracket set

SCS2-LN - TS - 125

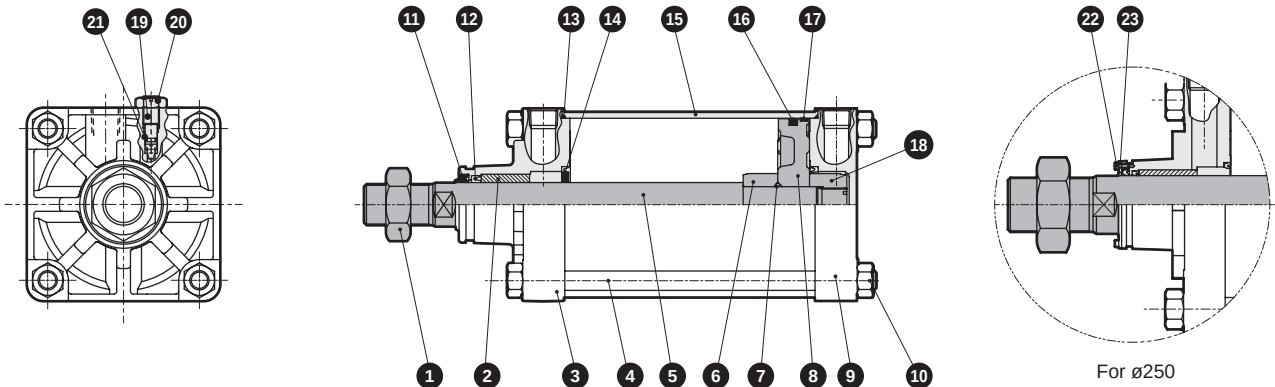
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Bore size (Item ⑧ on page 664)

Mounting bracket

TS	T-switch
T	T2YD switch

Internal structure and parts list



No.	Part name	Material	Remarks	No.	Part name	Material	Remarks
1	Hexagon nut	Steel	Zinc chromate	13	Cylinder gasket	Nitrile rubber	
2	Bush	Iron-copper oil-impregnated bearing alloy		14	Cushion packing	Nitrile rubber/steel	
3	Rod cover	Aluminum alloy casting	Chromate	15	Cylinder tube	Aluminum alloy	Hard alumite
4	Tie rod	Steel	Zinc chromate	16	Piston packing	Nitrile rubber	
5	Piston rod	Steel	Industrial chrome plating	17	Wear ring	Polyacetal resin	
6	Cushion ring A	Steel	Zinc chromate	18	Cushion ring B	Steel	Zinc chromate
7	Piston gasket	Nitrile rubber		19	Cushion needle	Copper alloy (ø125 to ø180) Steel (ø200, 250)	Zinc chromate
8	Piston	Aluminum alloy casting		20	Hexagon nut	Steel	Zinc chromate
9	Head cover	Aluminum alloy casting	Chromate	21	Needle gasket	Nitrile rubber	
10	Hexagon nut	Steel	Zinc chromate	22	Scraper retainer plate	Steel	Manganese phosphate
11	Dust wiper	Nitrile rubber		23	Hexagon socket head cap screw	Steel	Black finish
12	Rod packing	Nitrile rubber					

Repair parts list

Bore size (mm)	Kit No.	Repair parts No.
ø125	SCS2-H-125K	⑪ ⑫ ⑬ ⑭ ⑯ ⑰ ⑳
ø140	SCS2-H-140K	
ø160	SCS2-H-160K	
ø180	SCS2-H-180K	
ø200	SCS2-H-200K	
ø250	SCS2-H-250K	