



Tie rod cylinder Double acting/Rubber scraper

# SCG-G-FP1-HP1 Series

● Bore size:  $\varnothing 32/\varnothing 40/\varnothing 50/\varnothing 63/\varnothing 80/\varnothing 100$ 

## Specifications

Item		SCG-G-FP1-HP1					
Bore size mm		ø32	ø40	ø50	ø63	ø80	ø100
Actuation		Double acting					
Working fluid		Compressed air					
Max. working pressure MPa		1.0					
Min. working pressure MPa		0.15					
Proof pressure MPa		1.6					
Ambient temperature °C		-10 to 60 (no freezing)					
Port size		Rc1/8	Rc1/4		Rc3/8		Rc1/2
Stroke tolerance mm	With rubber cushion	<sup>+1.4</sup> <sub>0</sub> (up to 1000), <sup>+1.8</sup> <sub>0</sub> (1001 to 1500)					
	With air cushion	<sup>+1.0</sup> <sub>0</sub> (up to 360), <sup>+1.4</sup> <sub>0</sub> (361 to 1000), <sup>+1.8</sup> <sub>0</sub> (1001 to 1500 )					
Working piston speed mm/s		50 to 1000 (Use the product within the allowable absorbed energy.)					
Cushion		Either air cushion or rubber cushion can be selected					
Effective air cushion length mm		8.6	8.6	13.4	13.4	15.4	15.4
Lubrication		Not required					
Allowable absorbed energy J	With rubber cushion	0.5	0.9	1.6	1.6	3.3	5.8
	With air cushion	2.5	3.7	8.0	14.4	25.4	45.6

## Stroke

Bore size (mm)	Standard stroke (mm)	Max. stroke (mm)	Available stroke (mm)	Min. stroke(mm)
$\varnothing 32$	25/50/75/100	600	700	1
$\varnothing 40$			800	
$\varnothing 50$			1200	
$\varnothing 63$			1200	
$\varnothing 80$	450/500	700	1400	
$\varnothing 100$		800	1500	

\*1: The custom stroke is available in 1 mm increments.

\*2: If the max. stroke is exceeded, product specifications may not be met, depending on operating conditions. Contact CKD in this case.

## How to order mounting brackets

Bore size (mm)	$\varnothing 32$	$\varnothing 40$	$\varnothing 50$	$\varnothing 63$	$\varnothing 80$	$\varnothing 100$
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-FP1	SCG-CA-40-FP1	SCG-CA-50-FP1	SCG-CA-63-FP1	SCG-CA-80-FP1	SCG-CA-100-FP1
Clevis bracket (CB)	SCG-CB-32-FP1	SCG-CB-40-FP1	SCG-CB-50-FP1	SCG-CB-63-FP1	SCG-CB-80-FP1	SCG-CB-100-FP1

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

\*2: All mounting brackets have mounting bolts attached.

Refer to the SCG-G-HP1 Series on page 65 for dimensions.

# SCG-G-FP1-HP1 Series

How to order

## How to order

Without switch (built-in magnet for switch)

SCG-G-LB-40-B-100-M-FP1-I-HP1

With switch (built-in magnet for switch)

SCG-G-LB-40-B-100-T2H-R-M-FP1-I-HP1

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 types are assembled at shipment.)

\*2: Refer to S C G-G-H P1 Series on  
pages 62 and 63 for the min. stroke  
with switch.

\*3: Mounting When selecting TA or TB with , the  
switch quantity is limited to "H" (1 on head side)  
for TAR (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-MFP1I-HP1

Model: Tie rod cylinder Food-grade grease specifications

- A Mounting : Axial foot
- B Bore size : ø40 mm
- C Port thread : Rc thread
- D Cushion : With two-sided air cushion
- E Stroke : 100mm
- F Switch model No. : Proximity T2H switch, lead wire 1 m
- G Switch quantity : 2 pcs. included
- H Option : Piston rod material(Stainless steel)
- I Accessories : Rod eye (included)

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

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

<b>C Port thread</b>	
Blank	Rc thread
N	NPT thread (made to order)
G	G thread (made-to-order product)

<b>D Cushion</b>	
B	Two-sided air cushion (basic)
D	Two-sided rubber cushion
Note: The rubber cushioned type has a longer total length than the air cushioned type.	

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

<b>F Switch model No.</b>						
Lead wire	Lead wire	Contact	Voltage		Indicator	Lead wire
Straight	L-shaped		AC	DC		
TOH*	T0V*	Reed	●	●	1-color LED	2-wire
T5H*	T5V*		●	●	No LED	2-wire
T8H*	T8V*		●	●	1-color LED	2-wire
T1H*	T1V*		●	●	1-color LED	3-wire
T2H*	T2V*		●	●	1-color LED	2-wire
T3H*	T3V*	Proximity	●	●	1-color LED	2-wire
T2HR3	T2VR3		●	●	Bending resistant lead wire	2-wire
T3PH*	T3PV*		●	●	1-color LED (made to order)	3-wire
T2WH*	T2WV*		●	●	2-color LED	2-wire
T3WH*	T3WV*		●	●	2-color LED	3-wire
T2YD*	-		●	●	2-color LED	2-wire
T2YDT*	-		●	●	2-color LED	2-wire
T2JH*	T2JV*		●	●	1-color LED off-delay	2-wire

<b>* Lead wire length</b>	
Blank	1 m (standard)
3	3 m (option)
5	5 m (option)

<b>G Switch quantity</b>	
R	1 on rod side
H	1 on head side
D	2
T	3

<b>H Option</b>	
M	Piston rod material (stainless steel)

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

SCPD3	Long service life cylinder	Environment-resistant cylinder	Linear Slide Hand	Low-profile long stroke hand	Wide Parallel Hand	Chuck	Air Booster	Compatible with rechargeable batteries	Supports food mfg. processes
CMK2									
SCM									
SSD2									
MDC2									
MSD	SMG	STG	LCR	STM	LST	LSTM	HMC	CKW	ABP2
MSDG-L									
SCPD3									
CMK2									
SCM									
SCG	SSD2	SMG	STG	LCR	STM	LST	LSTM	HMC	CKW
SSD2									
MSD									
MSDG-L									
SCPD3									
CMK2	SCM	SSD2	SMG	STG	LCR	STM	LST	LSTM	HMC
SCM									
SCG									
SSD2									
MSD									
MSDG-L	SCG	SSD2	SMG	STG	LCR	STM	LST	LSTM	HMC
SCPD3									
CMK2									
SCM									
SCG									