

Guided cylinder Double acting/Rubber scraper

STG-^M_BG-FP1-HP1 Series

● Bore size: $\phi 12/\phi 16/\phi 20/\phi 25/\phi 32/\phi 40/\phi 50/\phi 63/\phi 80/\phi 100$

**Specifications**

Item	STG- ^M _B G-HP1									
Bore size mm	ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
Actuation	Double acting									
Working fluid	Compressed air									
Max. working pressure MPa	1.0									
Min. working pressure MPa	0.25				0.2					
Proof pressure MPa	1.6									
Ambient temperature °C	-10 to 60 (no freezing)									
Port size	M5		Rc1/8				Rc1/4		Rc3/8	
Stroke tolerance mm	+2.0									
	0									
Working piston speedmm/s	50 to 500							50 to 300		
Cushion	With rubber cushion									
Lubrication	Not required									
Allowable absorbed energy J	0.056	0.088	0.157	0.157	0.401	0.627	0.980	1.560	2.510	3.920

Stroke

Bore size	Standard stroke (mm)	Max. stroke (mm)	Min. stroke (mm)	Min. stroke with switch(mm)
ø12	10/20/30/40/50/75/100	250	5	5 (10) *2
ø16	125/150/175/200/250			
ø20	20/30/40/50/75/100/125	400		
ø25	150/175/200/250/300/350/400			
ø32	25/50/75/100 125/150/175 200/250/300 350/400			
ø40				
ø50				
ø63				
ø80				
ø100				

*1: The custom stroke is available in 5 mm increments. However, the total length is the same as that of the next longer standard stroke.

*2: For types with one or two switches. The value in () is the min. stroke for switches of the 2-color LED and AC magnetic field proof.

Refer to STG-^M_BG-FP1 Series on pages 98 to 101 for dimensions.

STG-M^BG-FP1-HP1 Series

How to order

How to order

Without switch (built-in magnet for switch)

STG-MG-32-25-FP1-HP1

With switch (built-in magnet for switch)

STG-MG-32-25-T2H-R-FP1-HP1

Model No.

A Bearing

B Model No.

C Bore size

D Port thread

E Stroke

F Switch model No.
*1 *2 *3

G Switch quantity

⚠ Precautions for model No. selection

*1: **F** Switches other than Switch model No. are also available. (Made-to-order product) For details, "Pneumatic Cylinders II" (No.CB-030SA).

*2: T8H/V switch cannot be installed on STG-12 or 16.

*3: Switches are shipped with the product. Contact CKD if assembling before shipment is necessary.

[Example of model No.]

STG-MG-40-50-T0H-H-FP1-HP1

Model: Guided cylinder Food-grade grease specifications

- A** Bearing : Metal bush bearing
- B** Model No. : Rubber scraper
- C** Bore size : ø40 mm
- D** Port thread : Rc thread
- E** Stroke : 50mm
- F** Switch model No. : Reed T0H switch, lead wire length 1 m
- G** Switch quantity : 1 on head side

Code		Description				
A Bearing						
M	Metal bush bearing					
B	Ball bearing					
B Model No.						
G	Rubber scraper					
C Bore size (mm)						
12	ø12					
16	ø16					
20	ø20					
25	ø25					
32	ø32					
40	ø40					
50	ø50					
63	ø63					
80	ø80					
100	ø100					
D Port thread						
Blank	M5 (ø12 to ø16)					
	Rc thread (ø20 to ø100)					
NN	NPT thread (ø20 and over) (made to order)					
GN	G thread (ø20 and over) (made-to-order product)					
E Stroke (mm)						
Refer to the stroke table below						
F Switch model No.						
Lead wire Straight	Lead wire L-shaped	Contact	Voltage AC DC		Indicator	Lead wire
T0H*	T0V*	Reed	●	●	1-color LED	2-wire
T5H*	T5V*		●	●	No LED	
T8H*	T8V*		●	●	1-color LED	
T1H*	T1V*	Proximity	●		1-color LED	2-wire
T2H*	T2V*			●		
T3H*	T3V*			●		
T2HR3	T2VR3			●	1-color LED bend resistant lead wire	2-wire
T3PH*	T3PV*			●	1ColorDisplay (made to order)	3-wire
T2WH*	T2WV*			●	2-color LED	2-wire
T3WH*	T3WV*			●		3-wire
T2YD*	-			●	2-color LED for	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					

E Stroke

Stroke (mm)	Applicable bore size									
	ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
Standard Stroke	10	●	●							
	20	●	●	●						
	25				●	●	●	●	●	●
	30	●	●	●	●					
	40	●	●	●	●					
	50	●	●	●	●	●	●	●	●	●
	75	●	●	●	●	●	●	●	●	●
	100	●	●	●	●	●	●	●	●	●
	125	●	●	●	●	●	●	●	●	●
	150	●	●	●	●	●	●	●	●	●
	175	●	●	●	●	●	●	●	●	●
	200	●	●	●	●	●	●	●	●	●
	250	●	●	●	●	●	●	●	●	●
	300			●	●	●	●	●	●	●
	350			●	●	●	●	●	●	●
	400			●	●	●	●	●	●	●
Min. stroke	*2	5 (10)								
Custom stroke	*1	In 5 mm increments								

*1: The total dimensions are the same as the longer standard stroke.

*2: The value in () is the min. stroke for switches of the 2-color LED and AC magnetic field proof.

SCP3	Long service life cylinder
CMK2	
SCM	
SSD2	
MDC2	
MSD	
MSDG-L	
SMG	
LCR	
LCG	
STM	
STG	
STR2	
SCP3	Environment-resistant cylinder
CMK2	
SCM	
SCG	
SSD2	
SMG	
LCR	
STG	
STS	Linear Slide Hand
STL	
LSH	
LSHL	
LSHM	
LST	Low-profile long stroke hand
LSTM	
HMC	Wide Parallel Hand
CKW	Chuck
ABP2	Air Booster
SCP3	Compatible with rechargeable batteries
CMK2	
SCM	
SSD2	
MSD	
MSDG-L	
SMG	
STG	
STM	
LCR	
LCG	
STR2	
LSH	
LSHL	
SCP3	Supports food mfg. processes
CMK2	
SCM	
SCG	
SSD2	
STG	