



Guided cylinder Double acting/Single rod

Long service life cylinder

STG-M_B-HP1 Series

● Bore size: ø12/ø16/ø20/ø25/ø32/ø40

JIS symbol



Specifications

Item	STG-M/B-HP1					
Bore size mm	ø12	ø16	ø20	ø25	ø32	ø40
Actuation	Double acting					
Working fluid	Compressed air					
Max. working pressureMPa	1.0					
Min. working pressureMPa	0.15				0.1	
Proof pressure MPa	1.6					
Ambient temperature °C	-10 to 60 (no freezing)					
Port size	M5		Rc1/8			
Stroke tolerance mm	+2.0					
	0					
Working piston speedmm/s	50 to 500					
Cushion	With rubber cushion					
Lubrication	Not required					
Allowable absorbed energyJ	0.056	0.088	0.157	0.157	0.401	0.627

Stroke

Bore size	Standard stroke (mm)	Max. stroke (mm)	Min. stroke (mm)	Min. stroke with switch (mm)
ø12	10/20/30/40/50	150	5	5 (10) *2
ø16	75/100/125/150			
ø20	20/30/40/50/75			
ø25	100/125/150			
ø32	25/50/75/100			
ø40	125/150			

*1: The custom stroke is available in 5 mm increments. However, the total dimensions are the same as the longer standard stroke. A dedicated body with dimensions matched to the stroke is available. Contact CKD for details.

*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.

For dimensions, refer to the STG Series in "Pneumatic Cylinders II (CB-030SA)".

How to order

Without switch (built-in magnet for switch)

STG - **M** - **25** - **30** - **HP1**

With switch (built-in magnet for switch)

STG - **M** - **25** - **30** - **T2H** - **R** - **HP1**

Model No.

A Bearing

B Bore size

C Port thread

D Stroke

E Switch model No.
No. *1 *3 *4

⚠ Precautions for model No. selection

*1: Switches other than **E** Switch model No. are also available. (Made to order)
Refer to "Pneumatic Cylinders II (No. CB-030SA)" for details.

*2: Copper and PTFE free as standard for STG-B-12 to 32.

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

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

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

*6: A dedicated body with dimensions matched to the stroke is available. Contact CKD for details.

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

[Example of model No.]

STG-B-25-30-T0H-D-HP1

Model: Guided cylinder, Double acting/Single rod

A Bearing method : Ball bearing

B Bore size : $\varnothing 25$ mm

C Port thread : Rc thread

D Stroke : 30 mm

E Switch model No. : Reed T0H switch
Lead wire length 1 m

F Switch quantity : 2 pcs. included

How to order switch

SW - **T0V**

E Switch model No.

STG repair parts list

Bore size (mm)	Kit No.	Part name
$\varnothing 12$	STG-12K-HP1	Rod packing Metal gasket Cushion rubber Piston packing O-ring
$\varnothing 16$	STG-16K-HP1	
$\varnothing 20$	STG-20K-HP1	
$\varnothing 25$	STG-25K-HP1	
$\varnothing 32$	STG-32K-HP1	
$\varnothing 40$	STG-40K-HP1	

Code		Description					
A Bearing							
M	Metal bush bearing						
B	Ball bearing						
B Bore size (mm)							
12	ø12						
16	ø16						
20	ø20						
25	ø25						
32	ø32						
40	ø40						
C Port thread							
Blank	M5 (ø12 to ø16) Rc thread (ø20 to ø40)						
NN	NPT thread (ø20 or more) (made to order)						
GN	G thread (ø20 or more) (made to order)						
D Stroke (mm)							
Refer to the stroke table below							
E Switch model No.							
Lead wire Straight	Lead wire L-shaped	Contact	Voltage		Indicator	Lead wire	
			AC	DC			
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*			●		3-wire	
T2HR3	T2VR3			●	1-color LED 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*			●		3-wire	
T2JH*	T2JV*			●	1-color LED off-delay	2-wire	
T2YD*	-			●	2-color LED	2-wire	
T2YDT*	-			●			
* Lead wire length							
Blank	1 m (standard)						
3	3 m (option)						
5	5 m (option)						
F Switch quantity							
R	1 on rod side						
H	1 on head side						
D	2						
T	3						

D Stroke

Stroke (mm)		Applicable bore size					
		$\varnothing 12$	$\varnothing 16$	$\varnothing 20$	$\varnothing 25$	$\varnothing 32$	$\varnothing 40$
Standard Stroke	10	●	●				
	20	●	●	●	●		
	25					●	●
	30	●	●	●	●		
	40	●	●	●	●		
	50	●	●	●	●	●	●
	75	●	●	●	●	●	●
	100	●	●	●	●	●	●
	125	●	●	●	●	●	●
	150	●	●	●	●	●	●
Min. stroke *7		5 (10)					
Custom stroke *5,*6		In 5 mm increments					