Pneumatic valves

bacteria-removing filter

components

Anti-bacterial/

Fluid control



Guided cylinder

# STG-M-FP1 Series

Bore size: ø12/ø16/ø20/ø25/ø32/ø40 ø50/ø63/ø80/ø100

**JISCode** 







### Specifications

Opcomodions										
Item					STG-	⊪-FP1				
Bore size mm	ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
Actuation	Double acting									
Working fluid					Compre	ssed air				
Max. working pressure MPa		1.0								
Min. working pressure MPa		0.15 0.1								
Proof pressure MPa	1.6									
Ambient temperature °C	-10 to 60 (no freezing)									
Port size	M	15		Rc	:1/8		Rc	1/4	Rc	3/8
Stroke tolerance mm	+2.0									
Stroke tolerance min	0									
Working piston speed mm/s	50 to 500 50 to 300									
Cushion	With rubber cushion									
Lubrication					Not re	quired				
Allowable absorbed energy J	0.056	0.088	0.157	0.157	0.401	0.627	0.980	1.560	2.510	3.92

<sup>\*1:</sup> The specifications above are for double acting/single rod. Each item differs depending on variation. For details, refer to Pneumatic Cylinders I (CB-029SA).

### Stroke

### Variation: blank

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						
ø16	125, 150, 175, 200, 250	230						
ø20	20, 30, 40, 50, 75, 100, 125							
ø25	150, 175, 200, 250, 300, 350, 400							
ø32			5	5(10)				
ø40	25, 50, 75, 100	400	*2	*2				
ø50	125, 150, 175	400						
ø63	200, 250, 300							
ø80	350, 400							
ø100								
*1: The custom stroke length is available in 5 mm increments. However, the total dimensions are the same as the longer standard stroke length. A dedicated body with dimensions matched to the stroke length 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 display and AC magnetic field proof.								

### Variation: G

Bore size	Standard stroke (mm)	Max. stroke (mm)	Min.Stroke (mm)	Min. stroke with switch(mm)
ø20	20, 30, 40, 50, 75, 100, 125			
ø25	150, 175, 200, 250, 300, 350, 400			
ø32	25, 50, 75, 100	400	5	5(10)
ø40	125, 150, 175	400	3	*2
ø50	200, 250, 300			
ø63	350, 400			
*1. The ex	etam atraka langth is susik	- l- l - :		11

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

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

### Variation: G2. G3

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

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

<sup>\*2:</sup> For types with one or two switches

Bore size	Standard stroke (mm)	Max. stroke (mm)	Min. stroke (mm)	Min. stroke with switch (mm)
ø32	25, 50, 75, 100			E(10)
ø40	125, 150, 175	400	5	5(10) *2
ø50	200, 250, 300	400		2
ø63	350, 400		10	10

<sup>\*1:</sup> The custom stroke length is available in 5 mm increments. However, the total dimensions are the same as the longer standard stroke length.

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

\*Bore size Standard

### Variation: C

• • • • • • • • • • • • • • • • • • • •	• variation •									
Bore size	Standard stroke (mm)	Max. stroke (mm)	Min. stroke (mm)	Min. stroke with switch (mm)						
ø16	25, 50, 75, 100, 125, 150, 175, 200, 250	250								
ø20										
ø25	25, 50, 75, 100		15							
ø32	125, 150, 175	400	*2	15						
ø40	200, 250, 300	400								
ø50	350, 400									
ø63										

<sup>\*1:</sup> The custom stroke length is available in 1 mm increments. However, the total

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

<sup>\*1:</sup> The custom stroke length is available in 5 mm increments. However, the total dimensions are the same as the longer standard stroke.
\*2: For types with one or two switches. The value in ( ) is the min. stroke length for

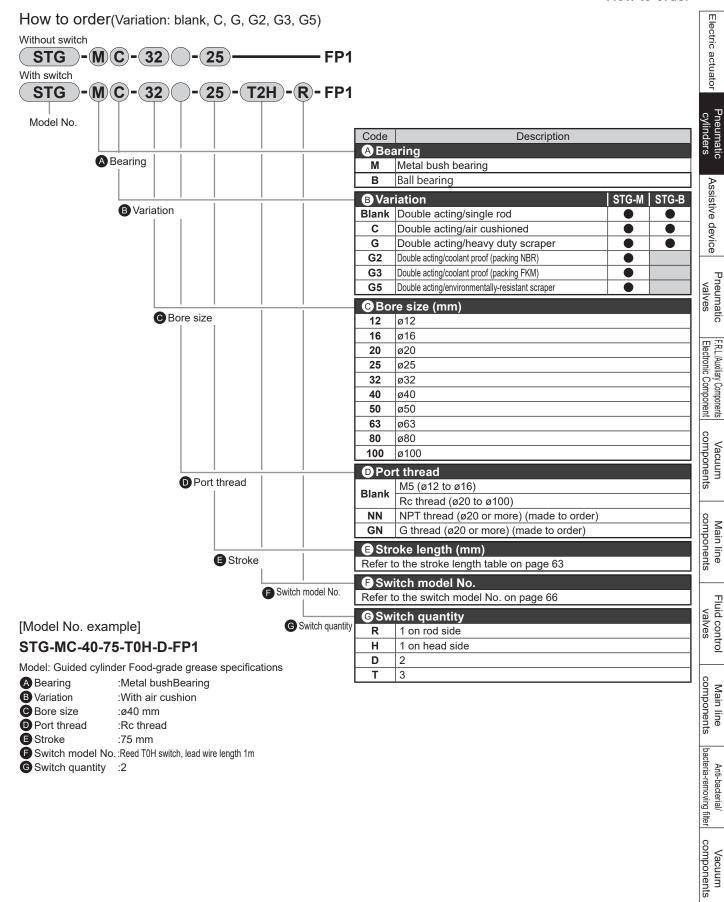
With rubber-air cushion (\*C)

dimensions are the same as the longer standard stroke. (Made to order)
\*2: For min. stroke length and below, select the basic type since there is no cushion effect.

switches of the 2-color display and AC magnetic field proof.

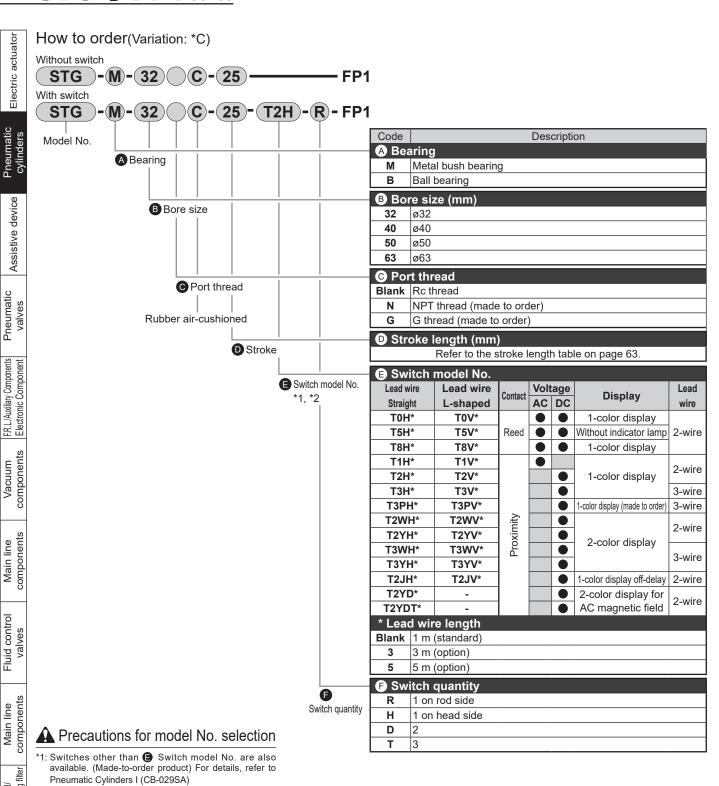
## STG-M-FP1 Series

How to order



Fluid control

## STG-M-FP1 Series



[Example of model No.]

### STG-M-32C-50-T0H-R-FP1

assembling before shipment is necessary.

Model:Guided cylinder/rubber-air cushioned Food-grade grease specifications

A Bearing : Metal bush bearing

\*2: Switches are shipped with the product. Contact CKD if

B Bore size : ø32 mm
C Port thread : Rc thread
D Stroke length : 50mm

Switch model No. : Reed T0H switch, lead wire length 1 m

Switch quantity : 1 on rod side

Fluid control

Anti-bacterial/ bacteria-removing

# STG-M-FP1 Series

SwitchModel No.

Electric actuator

Assistive device

Pneumatic valves

F.R.L./Auxiliary Components Electronic Component

Vacuum components

Main line components

Fluid control valves

Main line components

bacteria-removing filter

Vacuum components

Fluid control valves

### Switch model No.

● Variation: blank, C, G, G5

Lead wire	Lead wire	Contact	Vol	age	Diamlan	Landon			
Straight	L-shaped	S	AC	DC	Display	Lead wire			
T0H*	T0V*		•	•	1-color display	2-wire			
T5H*	T5V*	Reed	•	•	Without indicator lamp				
T8H*	T8V*	] "	1-color display						
T1H*	T1V*		•			2-wire			
T2H*	T2V*			•	1-color display	Z-WIIE			
T3H*	T3V*			•		3-wire			
T2WH*	T2WV*	Proximity		•	2-color display	2-wire			
T2YH*	T2YV*			•		2-WII-6			
T3WH*	T3WV*	ľox		•	2-color display	3-wire			
T3YH*	T3YV*	"		•					
T3PH*	T3PV*			•	1-color display (Made to order)	3-wire			
T2YD*	-			•	2-color display	2-wire			
T2YDT*	-	AC magnetic field							
* Lead wire len	gth								
Blank	1m (standard)								
3	3 m (option)								
5	5 m (option)								

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

### Variation: G2, G3

	Switch model No.										
Lead wire	tact	Volt	age	Dianlay	Lead wire						
L-shaped		AC	DC	ызріау	Leau wire						
T2YLV*	imity		•	2 color dioplay	2-wire						
T3YLV*	Prox		•	2-color display	3-wire						
* Lead wire length											
(standard)											
(option)											
(option)											
	L-shaped T2YLV* T3YLV* (standard) (option)	T2YLV* T3YLV* (standard) (option)	T2YLV* T3YLV*  (standard) (option)	T2YLV*  T3YLV*  (standard)  (option)	T2YLV* T3YLV*  (standard) (option)						

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

