

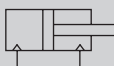
Twin rod cylinder Double acting/Standard

Long service life cylinder

# STR2-M<sub>B</sub>-HP1 Series

● Bore size: ø6/ø10/ø16/ø20/ø25/ø32

JIS symbol



## Specifications

Item		STR2-M-HP1 (metal bush bearing) STR2-B-HP1 (ball bearing)					
Bore size mm		ø6	ø10	ø16	ø20	ø25	ø32
Actuation		Double acting					
Working fluid		Compressed air					
Max. working pressure MPa		0.7					
Min. working pressure MPa		0.2	0.15		0.1		
Proof pressure MPa		1.05					
Ambient temperature °C		-10 to 60 (no freezing)					
Port size		M5					Rc1/8
Stroke tolerance mm		+2.0					
		0					
Adjustable stroke range mm		0 to -5					
Working piston speed mm/s		50 to 500					
Non-rotating accuracy (reference value)	STR2-M	±0.4°		±0.3°		±0.2°	
	STR2-B	±0.2°		±0.1°		±0.3°	
Piston rod	STR2-M	Metal bush bearing					
Bearing	STR2-B	Ball bearing					
Cushion		With rubber cushion					
Lubrication		Not required					
Allowable absorbed energy J	PUSH	0.008	0.061	0.181	0.303	0.68	1.3
	PULL	0.059	0.083	0.083	0.127	0.237	0.311

## Stroke

Bore size	Stroke (mm)	Max. stroke (mm)	Min. stroke (mm)	Available stroke (mm)	Min. stroke with switch (mm)
ø6	10, 20, 30, 40, 50	50	5	100	10
ø10					
ø16	10, 20, 30, 40, 50 60, 70, 80, 90, 100	100		150	
ø20					
ø25					
ø32			*1		

\*1: In the case of rear piping:

- ø16:70
- ø20, ø25:60
- ø32:50

\*2: The custom stroke is available in 1 mm increments. However, the total length is the same as that of the next longer standard stroke.

For dimensions, refer to the STR2 Series in "Pneumatic Cylinders II (CB-030SA)".

### How to order

Without switch (built-in magnet for switch)

**STR2-M-16-30-F-HP1**

With switch (built-in magnet for switch)

**STR2-M-16-30-K0H-R-F-HP1**

Model No.

**A** Bearing

**B** Bore size

**C** Port thread

**D** Stroke

\*1

■ The custom stroke is available in 1 mm increments.

**E** Switch model No.

\*2

### ⚠ Precautions for model No. selection

\*1: The max. stroke of rear piping "R" is:

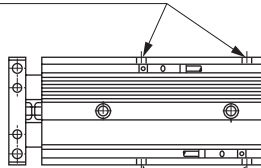
- ø6/10 : 50 stroke
- ø16 : 70 stroke
- ø20/25 : 60 stroke
- ø32 : 50 stroke.

\*2: STR2-B-6 and 10 are not compatible with reed switches.

\*3: The ball bearing is copper and PTFE free "P6" as standard.

\*4: The piping port positions for "O" are as shown in the figure below.

Piping port positions for standard (blank)



Change piping port position by 180°  
(Code: 0) piping port

\*5: For G thread, ports on the opposite side (option "O") are not available. Rather than plug sealing, they are simply not provided.  
(The standard ports are not provided for option "O".)

[Example of model No.]

**STR2-M-16-30-K0H-R-F-HP1**

Model: Twin rod cylinder, standard

- A** Bearing : Metal bush bearing
- B** Bore size : ø16 mm
- C** Port thread : Rc thread
- D** Stroke : 30 mm
- E** Switch model No. : Reed K0H switch
- F** Switch quantity : 1 on rod side
- G** Option : End plate material: Steel

Discrete switch  
model No.

Indicator method

**SW-K0H\***

Switch model No.  
(Item **E** above)

Code	Description				
A Bearing					
M	Metal bush bearing				
B	Ball bearing				
B Bore size(mm)					
6	ø6				
10	ø10				
16	ø16				
20	ø20				
25	ø25				
32	ø32				
C Port thread					
Blank	Rc thread				
NN	NPT thread (ø32 only) (made to order)				
GN	G thread (ø32 only) (made to order) *5				
D Stroke (mm)					
Bore size	Stroke	Available stroke	Stroke		
ø6	5 to 50	100	In 1 mm increments		
ø10	5 to 50				
ø16	5 to 100	150			
ø20	5 to 100				
ø25	5 to 100				
ø32	5 to 100				
E Switch model No.					
Lead wire Straight	Lead wire L-shaped	Contact	Voltage ACDC	Indicator	Lead wire
K0H*	K0V*	Reed	●●	1-color LED	2-wire
K5H*	K5V*		●●	No LED	
K2H*	K2V*	Proximity	●	1-color LED	2-wire
K3H*	K3V*		●	3-wire	
K3PH*	K3PV*		●	1-color LED (made to order)	3-wire
K2YH*	K2YV*		●	2-color LED	2-wire
K3YH*	K3YV*		●	3-wire	
* 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				
G Option					
F	End plate material: steel				
O	Change piping port position by 180°				
R	Rear piping				

### Consumable parts list

Bore size(mm )	Kit No.	Part name
ø6	<b>STR2-6K-HP1</b>	Cushion rubber R/H O-ring Rod packing Piston packing Wear ring
ø10	<b>STR2-10K-HP1</b>	
ø16	<b>STR2-16K-HP1</b>	
ø20	<b>STR2-20K-HP1</b>	
ø25	<b>STR2-25K-HP1</b>	
ø32	<b>STR2-32K-HP1</b>	

Note: Specify the kit No. when placing an order.