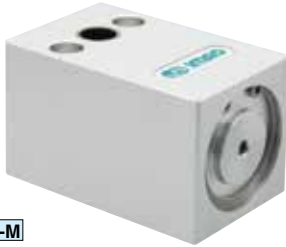


# PSLC-M, PSLC-M-S PNEUMATIC SHAFT LOCKING CLAMPS



**PSLC-M**

(Standard, Single Acting)



**PSLC-M-S**

(Sensor Mountable, Single Acting)

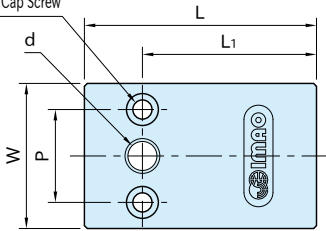
★ **Key Point**

For automation of shaft locking.  
Usable with sensors.

Body	Cover	Clamping Shaft
A5052 aluminum Anodized	A5056 aluminum Anodized	S45C steel Electroless nickel plated

For 2-M

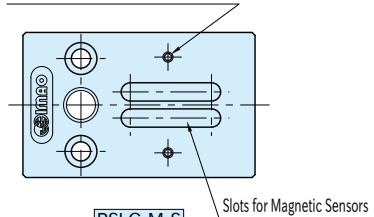
Hex-Socket Head Cap Screw



**PSLC-M**

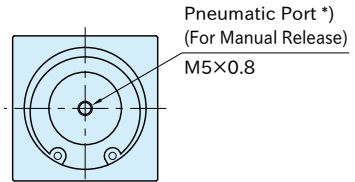
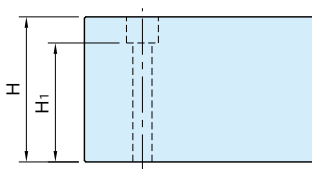
(Standard, Single Acting)

2-M3×0.5 Mounting Hole  
for Sensor Brackets



**PSLC-M-S**

(Sensor Mountable, Single Acting)



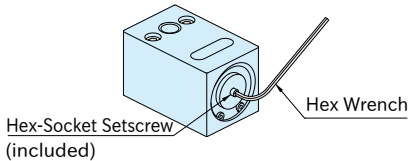
\*) Delivered with the setscrew installed.  
See the Feature section for details.

Part Number		d	L <sub>1</sub>	L	W	H	M	H <sub>1</sub>	P	Weight (g)	Suitable shaft dia. (h7,g6,f8) **)
Standard Type	Sensor Mountable Type										
<b>PSLC10-3M</b>	<b>PSLC10-3M-S</b>	10	60	80	50	50	M 6	41	32	530	φ 10
<b>PSLC12-3M</b>	<b>PSLC12-3M-S</b>	12									φ 12
<b>PSLC16-3M</b>	<b>PSLC16-3M-S</b>	16	70	95	63	63	M 8	53	42	1000	φ 16
<b>PSLC20-3M</b>	<b>PSLC20-3M-S</b>	20									φ 20
<b>PSLC25-3M</b>	<b>PSLC25-3M-S</b>	25	95	130	80	80	M10	65	56	2310	φ 25
<b>PSLC30-3M</b>	<b>PSLC30-3M-S</b>	30									φ 30

\*\*) Recommended shaft: Heat treated (over HRC50) or hard chrome plated (over HV750, over 10 μm thickness)

## Feature

- Spring clamping and pneumatic unclamping mechanism prevents the decrease of clamping force by air leakage.
- Available for remote and multiple operations.
- PSLC-M-S type can be used in combination with sensors to detect the clamping condition. The sensors must be supplied separately by customer.
- For details on applicable sensors and installation details, refer to PSLC-M-SB.
- Can be unclamped manually. The clamp can be released without air supply by fully tightening the setscrew into the manual unclamping hole.
- A setscrew is attached to the pneumatic port for shipping. Remove the setscrew for air supply.



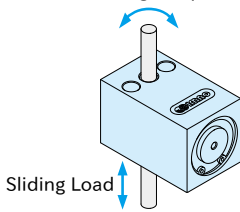
## Note

- Clamping/unclamping operations must be performed with the shaft not in motion. Cannot be used as a brake of a moving shaft.
- Do not force the clamped shaft to move.
- Do not operate frequently without the shaft.

## Technical Information

Size	Operating Air Pressure(MPa)	Holding Torque(N·m)	Sliding Load (N)
PSLC-M PSLC-M-S	0.3~0.7	10	800
		12	
		16	1600
		20	
		25	
		30	
		40	2200

### Holding Torque



## Reference

PSLC-M-SB Sensor Brackets

## Supplied With

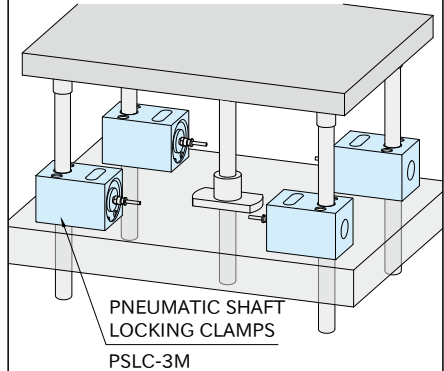
1 of hex. socket setscrew

## Application Example

- Three-way valves are recommended.
- When air is supplied to compress the spring, the shaft is unclamped. When air is released, the shaft is clamped by the spring.
- Use bushings or bearings with the unit as needed.

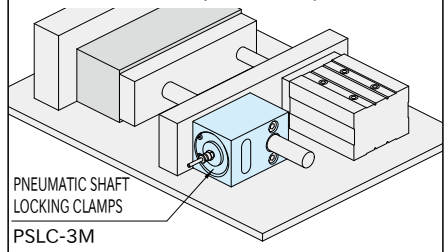
### Sliding shaft locking

Vertical lock for elevator table



### Sliding shaft locking

Horizontal lock with pneumatic cylinder



### Spindle locking

Rotation lock for rotary stages

