

QCIC-M

ONE-TOUCH INDEXING CLAMPS



QCIC-M-P
(ON position)



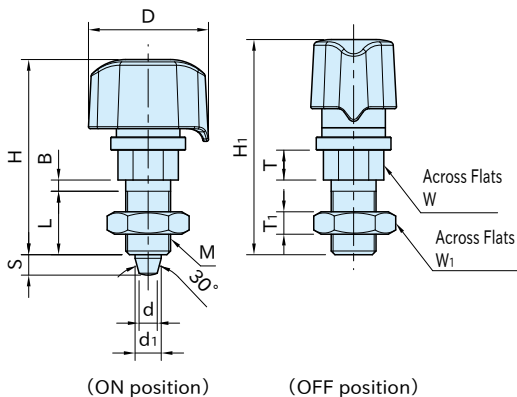
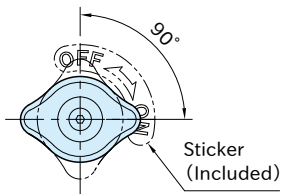
QCIC-M-P
(OFF position)



For **QCIC-M-2P**
(Sticker for without spring pressure type)



For **QCIC-M-3P**
(Sticker for with spring pressure type)



Body	Tapered Pin	Indicator	Knob
SCM440 steel Electroless nickel plated	SCM435 steel Electroless nickel plated	A5056 aluminum alloy Anodized Red	Polyamide (glass-fiber reinforced) Black

★Key Point
Locating and clamping at once

Size	Proper Plate Thickness	D	H	H ₁	d	d ₁	S	L	B	M	W	W ₁	T	T ₁	Proper Tapered Bushings
QCIC05M10	8~10	26	44	48	3.3	5	4.2	15	2	M10X1 (Fine Thread)	13	17	7	5	QCIC05TB
QCIC07M12	9~11	32	52	58	4.9	7	5	17	3	M12X1.5(Fine Thread)	14	19	8	6	QCIC07TB

Part Number	Clamping Force (N)	Spring Pressure (N)	Weight (g)
QCIC05M10-2P	140	—	45
QCIC07M12-2P	170	—	70
QCIC07M12-3P		9	70

QCIC-TB TAPERED BUSHINGS

Supplied With

- **QCIC-M-2P** : ON/OFF sticker
- **QCIC-M-3P** : ON/MID/OFF sticker

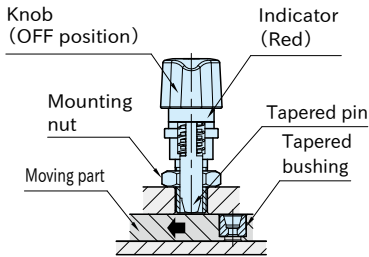
Note: The attached sticker is an aluminum with thickness of 0.2 mm and has an adhesive on the back side.

Feature

- Clamping by the tapered pin allows locating and clamping with no clearance at once.
- Only a tapped hole is required for mounting.
- Not only can be used with a tapered bushing, but also with a through hole made on the plate.
- The red indicator appears to show the unclamping state when the knob is in OFF position.
- Use **QCIC-F** ONE-TOUCH INDEXING CLAMPS to set ON/OFF position at your desired place.

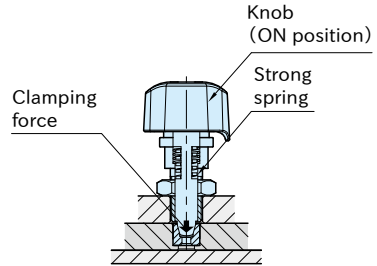
■ Without Spring Pressure

2 positions of ON/OFF



Knob is in OFF position.

The tapered pin remains inside when releasing the knob.



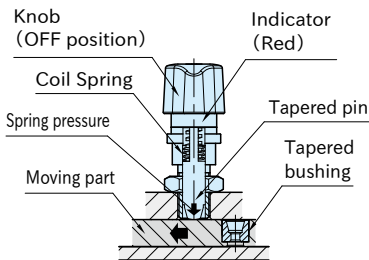
Knob is in ON position.

- Turn the knob to "ON" when the tapered pin and tapered bushing are aligned.
- Clamping force is generated by compressing strong spring and the tapered pin clamps the tapered bushing. The knob clicks when it is clamped.

■ With Spring Pressure

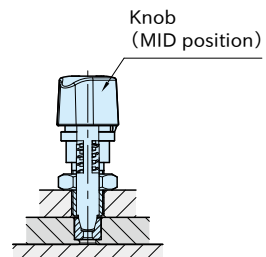
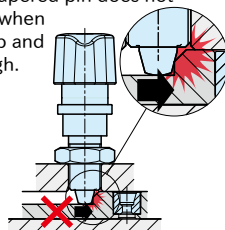
• 3 positions of ON/MID/OFF

- The plate is movable while receiving spring pressure of the coil spring inside the body.
- The tapered pin and tapered bushing automatically engage by spring pressure when they are aligned. (The knob positions in "MID".)



Knob is in OFF position.

- The tapered pin keeps pushed-out-state when releasing the knob. (The knob turns to "MID".)
- In MID position, the tapered pin does not retract into the body when colliding with the step and it can not pass through.



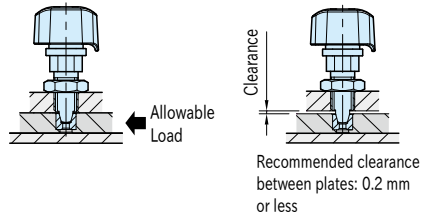
Knob is in MID position.

- The tapered pin and tapered bushing engage by spring pressure when they are aligned.
- The knob moves to "MID".
- Turn the knob from "MID" to "ON".
- Clamping force is generated by compressing strong spring and the tapered pin clamps the tapered bushing. The knob clicks when it is clamped.

Technical Information

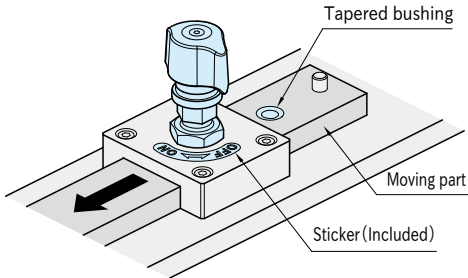
Size	Heatresistant Temperature (°C)	Allowable Load (N)
QCIC05M10	80	900
QCIC07M12		1300

Repeatability: ± 0.05

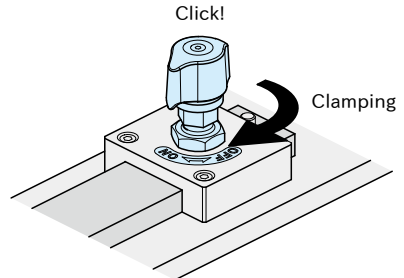


How To Use

Without Spring Pressure



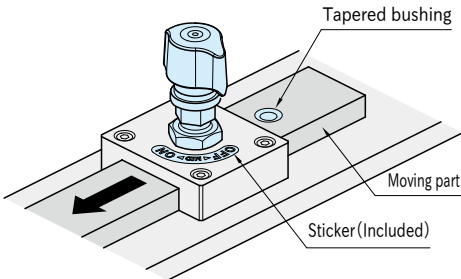
- ① Ensure that the knob is positioned at "OFF". Slide the moving part.



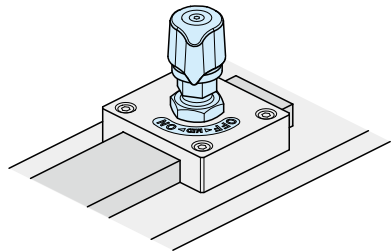
- ② Turn the knob to "ON" for clamping. The knob clicks when it is clamped.

Note: For [QCIC-M-2P](#) (Without Spring pressure), do not unclamp when the tapered pin is receiving axial load. (The tapered pin could not return due to structure.)

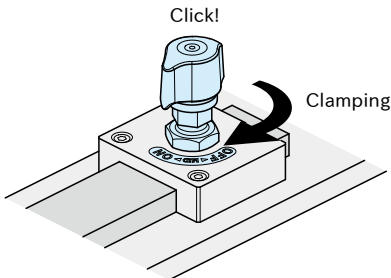
With Spring Pressure



- ① Slide the moving part when the knob is positioned at "OFF"



- ② The tapered pin and tapered bushing engage by spring force when they are aligned. The knob moves to "MID".

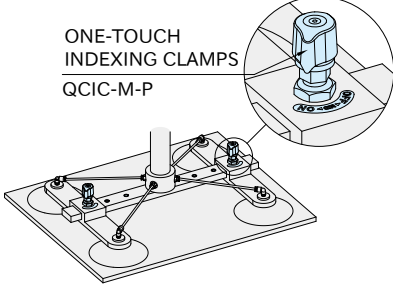


- ③ Turn the knob from "MID" to "ON" for clamping. The knob clicks when it is clamped.

Application Example

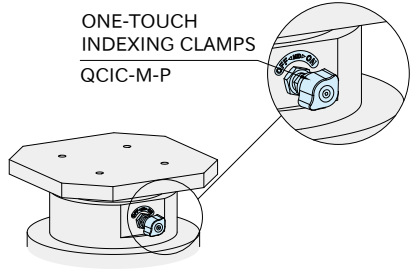
Locating and clamping for suction arms

ONE-TOUCH
INDEXING CLAMPS
QCIC-M-P



Locating and clamping for rotating pallet

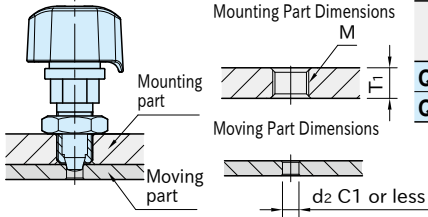
ONE-TOUCH
INDEXING CLAMPS
QCIC-M-P



How To Install

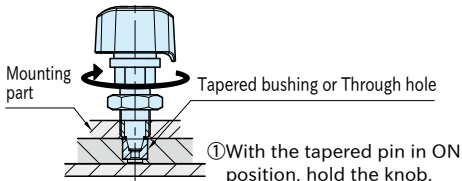
Mounting Hole Dimensions

Note: Without tapered bushing

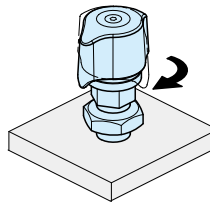


Size	d ₂	T ₁ (Proper Plate Thickness)	M
QCIC05M10	3.7~4.6	8~10	M10×1 (Fine Thread)
QCIC07M12	5.3~6.6	9~11	M12×1.5 (Fine Thread)

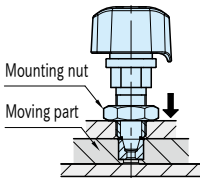
Installation Instructions



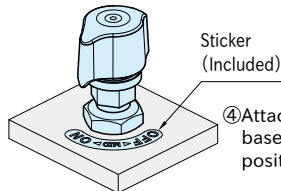
- ① With the tapered pin in ON position, hold the knob, and turn the body and screw it until the tapered pin touches lightly to the tapered bushing.



- ② Hold the knob and screw it about 90 degrees further.



- ③ Fix the mounting nut. Turn the knob to OFF position and make sure the moving part slides smoothly and the knob clicks.



- ④ Attach the sticker based on ON or OFF position.

Reference

"How To Install" of [QCIC-TB](#) Tapered Bushings