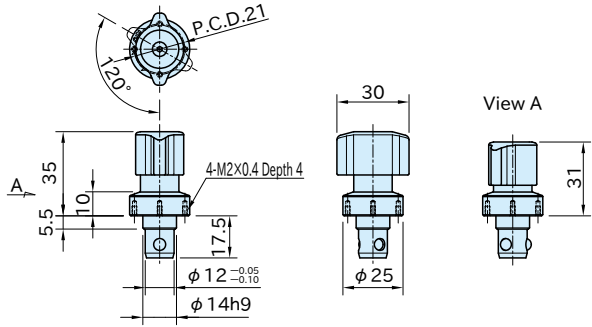


# QCWES

# HEAVY DUTY KNOB-LOCKING PINS



**QCWES1225-16S**  
(ON position)



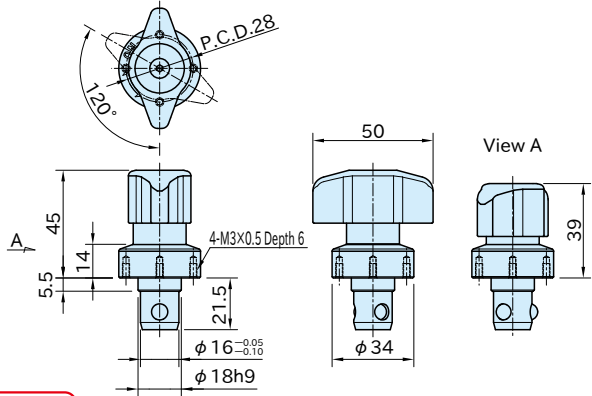
(OFF position)

(ON position)

**QCWES1225-16S**



**QCWES1634-20S**  
(OFF position)



(OFF position)

(ON position)

**QCWES1634-20S**

★ **Key Point**

Strong clamping with 1000N / 2000N

Body	Wedge	Knob	Ball	Spring A	Spring B
SCM440 steel Electroless nickel plated	SCM435 steel Electroless nickel plated Quenched and tempered	SCS13 stainless steel (Equivalent to SUS304)	SUS440C stainless steel Quenched and tempered	Equivalent to SWOSC-V steel	SUS304WPB stainless steel

Part Number	Proper Plate Thickness	Clamping Force (N)	Holding Force (N) **	Weight (g)	Proper Locking Receptacles
<b>QCWES1225-16S</b>	6~16 *)	1000	2500	150	<b>QCWES1225-B</b>
<b>QCWES1634-20S</b>	6~20 *)	2000	5000	290	<b>QCWES1634-B</b>

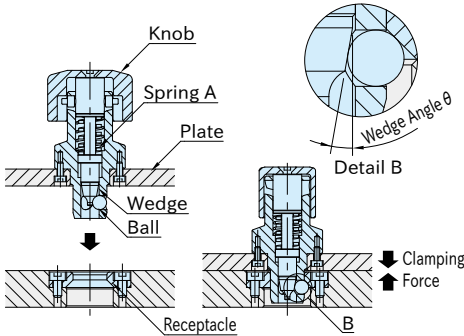
\*) The tolerance should be within ±0.05 for 6mm-thick plates.

\*\*) The holding force limits the gap between plates within 0.1mm.

## Supplied With

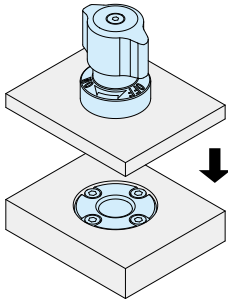
- **QCWES1225-16S**:  
4 of socket-head cap screws(stainless steel),  
M2×0.4-5L
- **QCWES1634-20S**:  
4 of socket-head cap screws(stainless steel),  
M3×0.5-6L

## Feature

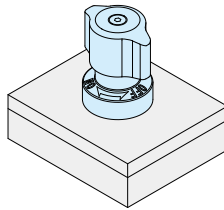


The wedge of the locking pin pushes out the balls against the tapered surface of the receptacle to clamp the two plates.

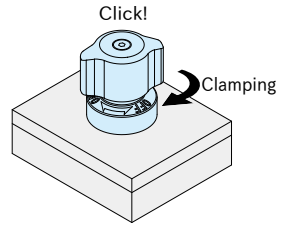
## How To Use



1.Ensure that the knob is positioned at the "OFF" mark.



2.Insert the Knob-Locking Pin.



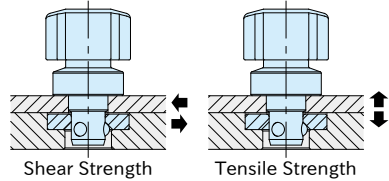
3. Turn the knob to the "ON" mark for clamping. The knob clicks when it is clamped. For unclamping, follow back these steps.The knob turns back to the "OFF" mark by spring force.

## QCWES-B

## LOCKING RECEPTACLES



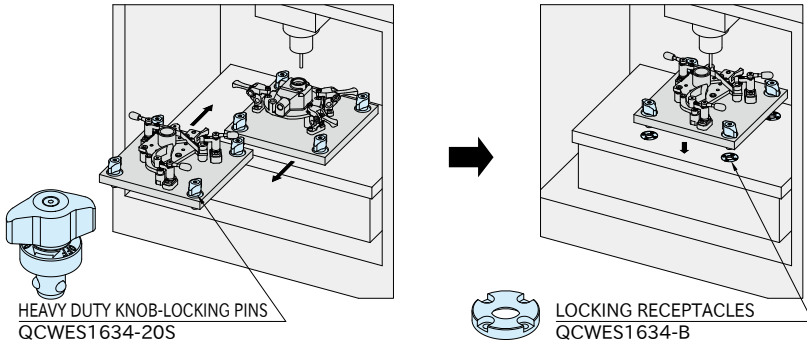
## Technical Information



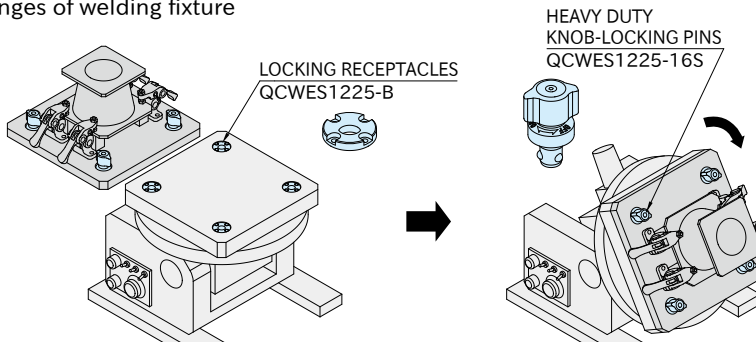
Part Number	Heat-resistant Temperature (°C)	Shear Strength (N)	Tensile Strength (N)
<b>QCWES1225-16S</b>	180	10000	4000
<b>QCWES1634-20S</b>		15000	8000

## Application Example

### Changes of machining fixture



### Changes of welding fixture



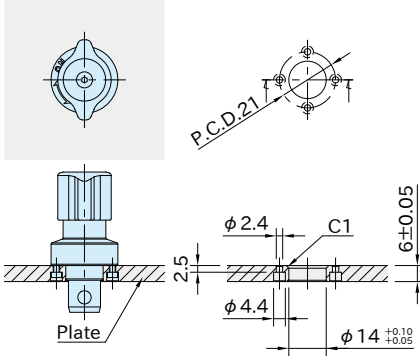
## Reference

"How To Install" of [QCWES-B](#) Locking Receptacles

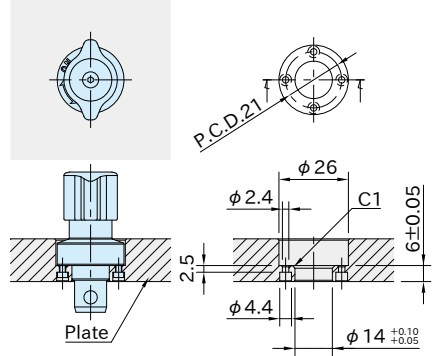
## How To Install

### QCWES1225-16S

For 6mm plate

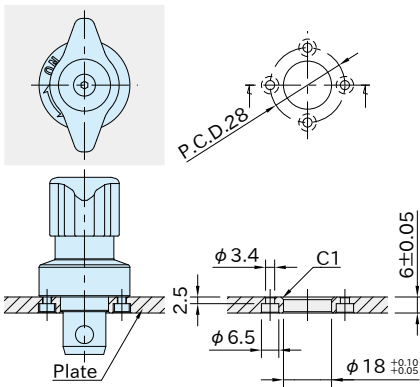


For over 6mm to 16mm plate

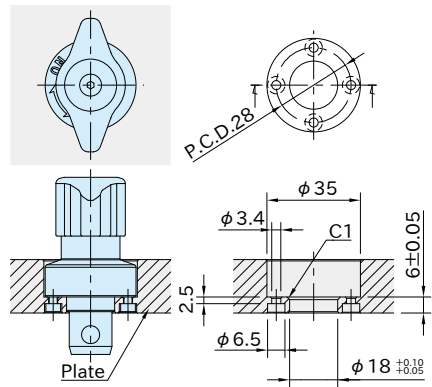


### QCWES1634-20S

For 6mm plate

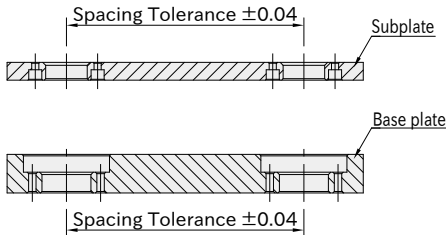


For over 6mm to 20mm plate



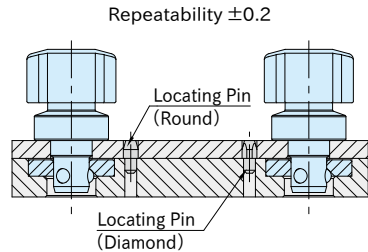
## Accuracy

### ■ Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be  $\pm 0.04$ .

### ■ Repeatability



For higher accurate locating, use locating pins.