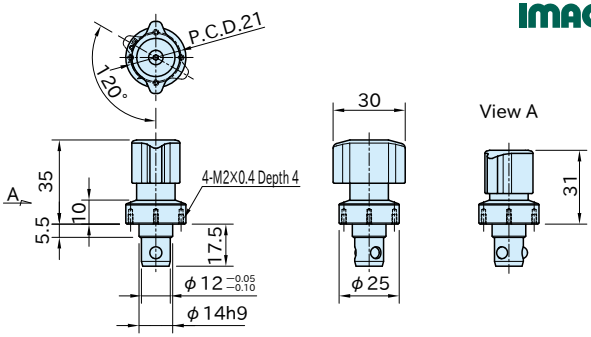
QCWES HEAVY DUTY KNOB-LOCKING PINS

RoHS

Wedge

IMAO

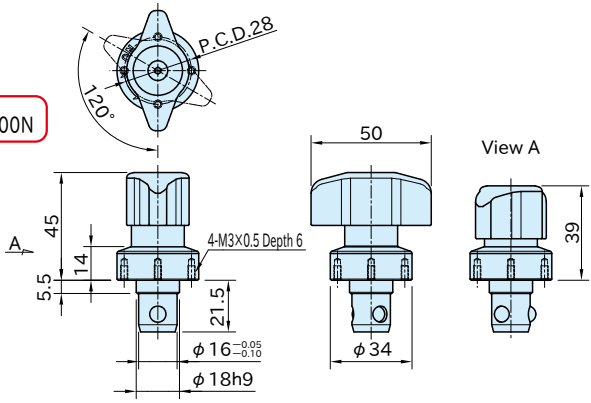


(OFF position) (ON position)

QCWES1225-16S

★Key Point

Strong clamping with 1000N / 2000N



(OFF position) (ON position)

QCWES1634-20S

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

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

**) Exceeding the holding force creates a gap of greater than 0.1mm between plates.

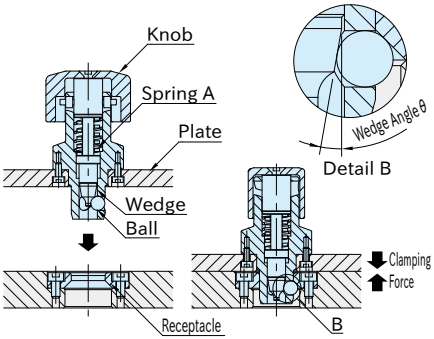
Supplied With

·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

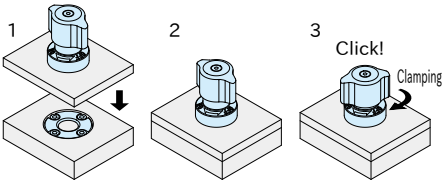
QCWES-B LOCKING RECEPTACLES

Feature



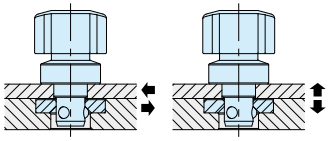
The wedge of the locking pin pushes out the balls against the tapered surface of the receptacle to clamp the two plates.

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.

Mechanical Strength

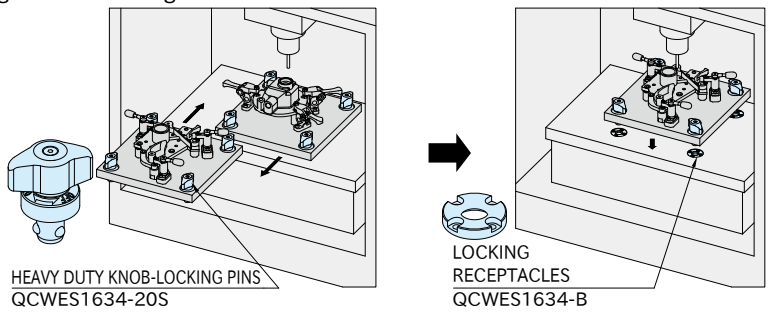


Part Number	Heat-resistant Temperature (℃)	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCWES1225-16S	180	10000	4000
QCWES1634-20S		15000	8000

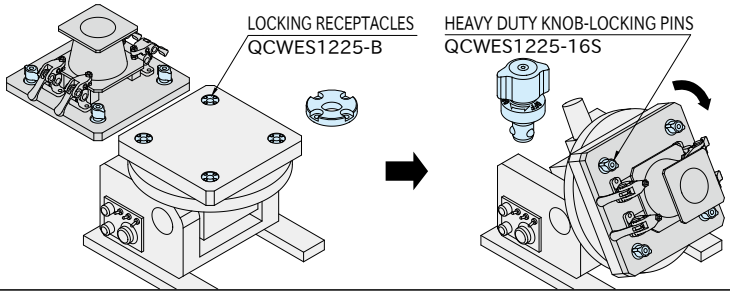
The values shown represent load levels at which failure can occur.

Application Example

Changes of machining fixture



Changes of welding fixture



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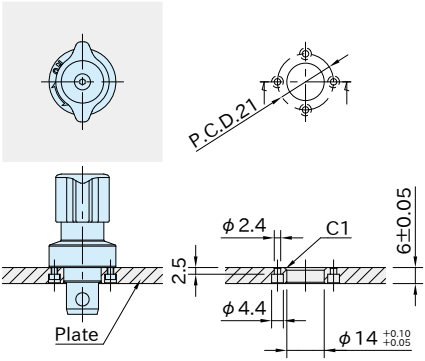
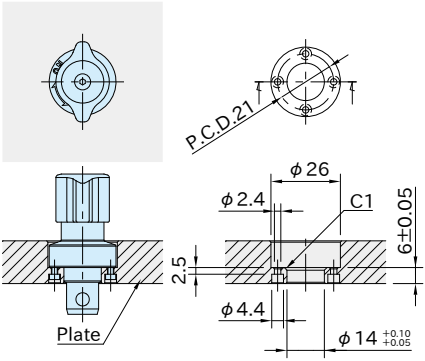
How To Install

QCWES1225-16S

For 6mm plate

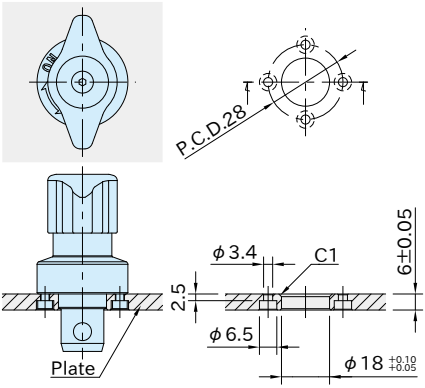


For over 6mm to 16mm plate

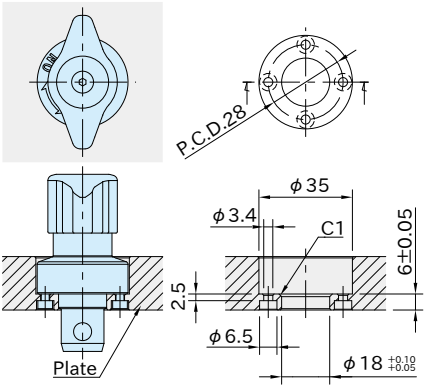


QCWES1634-20S

For 6mm plate

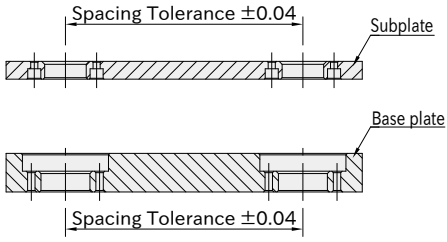


For over 6mm to 20mm plate



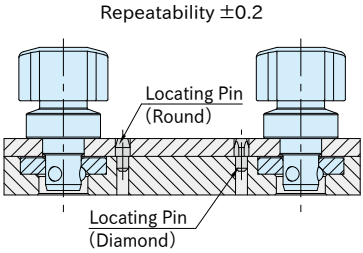
Accuracy

■Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ±0.04.

■Repeatability

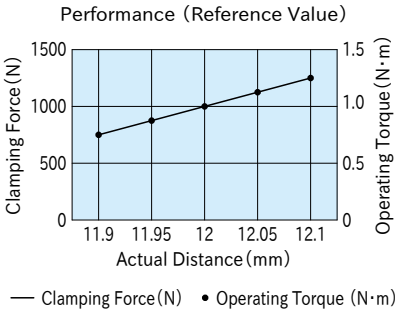


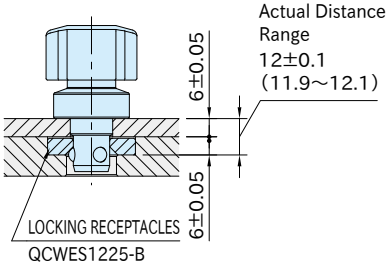
For higher accurate locating, use locating pins.

Performance Curve

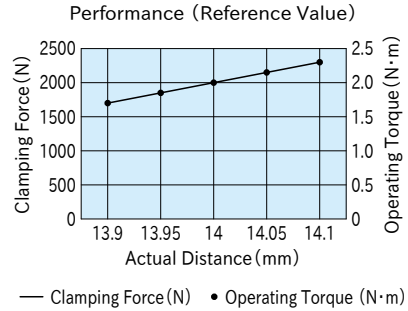
■Actual Mounting Distance vs. Clamping Force and Operating Torque

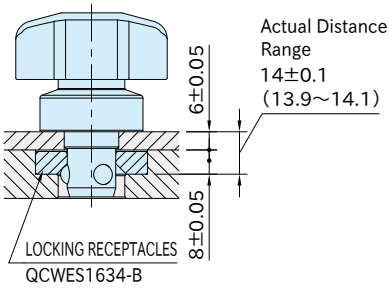
QCWES1225-16S





QCWES1634-20S





Reference

"How To Install" of QCWES-B Locking Receptacles