QCBA / QCBAS BALL-LOCK CLAMPING RECEPTACLES

RoHS Heat resistance: 180°C

IMAO

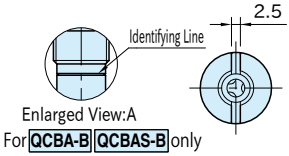


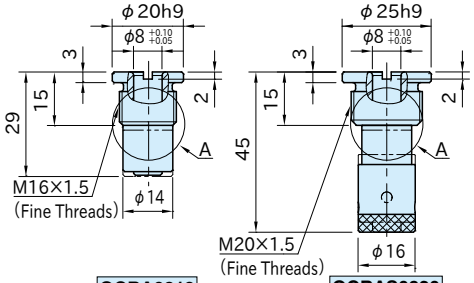
QCBA0816 (Standard)



QCBAS0820 (Safety Lock)

Type	Body/Collar	Balls	Coiled Spring	Locking Knob
QCBA0816	S45C steel Electroless nickel plated	SUS440C stainless steel Quenched and tempered	SUS304WPB stainless steel	—
QCBAS0820				S45C steel Electroless nickel plated





QCBA0816 (Standard)

QCBAS0820 (Safety Lock)

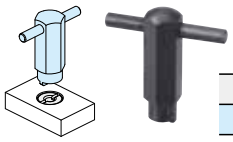
QCBA0816 (Standard)

Part Number	Clamping Force (N)	Weight (g)
QCBA0816A	7	30
QCBA0816B	15	

QCBAS0820 (Safety Lock)

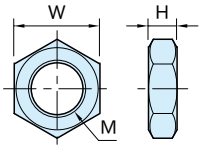
Part Number	Clamping Force (N)	Weight (g)
QCBAS0820A	7	65
QCBAS0820B	15	

Order Separately Installation Wrench



Part Number
PW16

Order Separately Nut (Stainless Steel)



Part Number	M (Fine Threads)	H	W	Ball-Lock Clamping Receptacles
NDX16-NUT-SUS	M16×1.5	8	24	QCBA0816
NDX20-NUT-SUS	M20×1.5	10	30	QCBAS0820

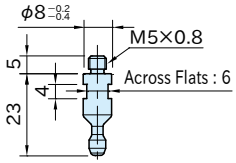
QCBA-M BALL-LOCK CLAMPING PINS

RoHS Heat resistance: 180°C

IMAO

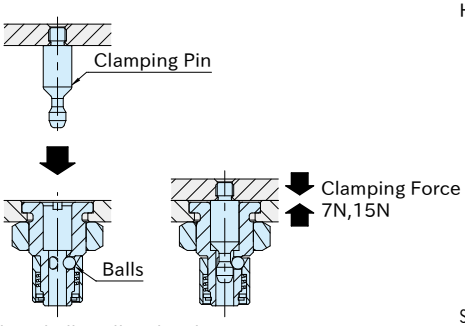
Part Number	Weight (g)
QCBA0816-M5	7





Body
S45C steel Quenched and tempered Electroless nickel plated

Feature



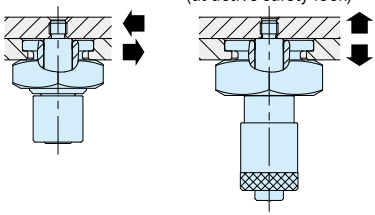
The 3 balls pull in the clamping pin.

Mechanical Strength

Heatresistant Temperature 180℃

Shear Strength 1800N

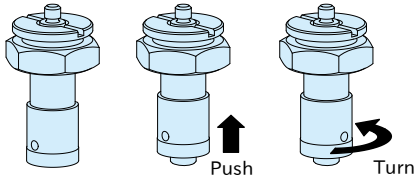
Tensile Strength 1800N
(at active safety lock)



Shear and tensile strength is allowable load and the fastener could break when it receives bigger load.

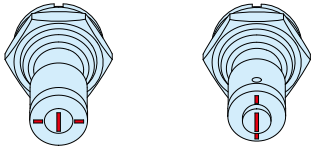
When the fastener receives tensile load that is bigger than its clamping force, there is a gap between the plates.

How To Operate Safety Lock



Turn in the arrowhead direction pushing the locking knob.
Note: To release the safety lock, follow the steps back.

How To Check Safety Lock

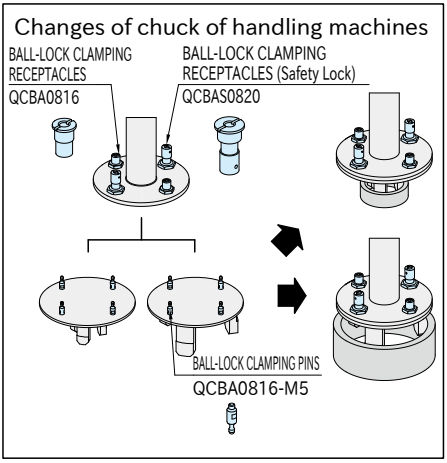


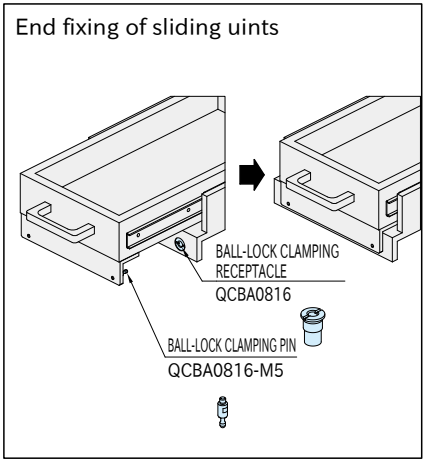
Inactive Mode

Active Mode

When the mark lines on the end of the locking knob are aligned, the safety lock is active.

Application Example

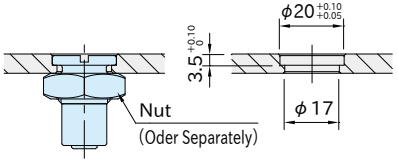




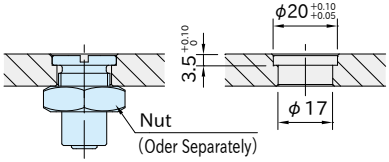
Continuing to next page

How To Install (Standard)

For installation in a subplate of thickness ranging from 6mm to 10mm, use a nut for fastening.

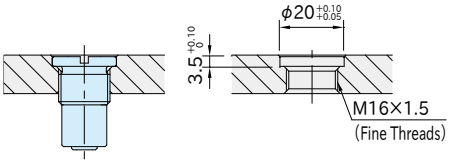


6mm

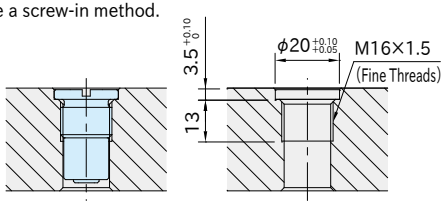


10mm

For installation in a subplate of thickness over 10mm, use a screw-in method.



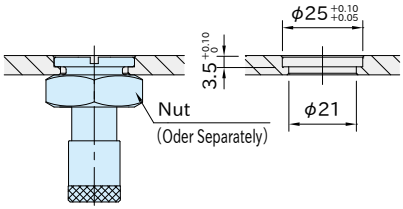
Installation in a subplate



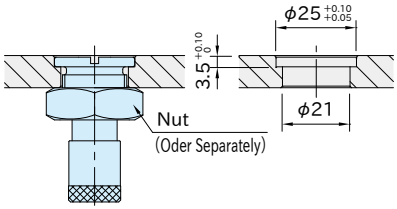
Installation in a block

How To Install (Safety Lock)

For installation in a subplate of thickness ranging from 6mm to 10mm, use a nut for fastening.

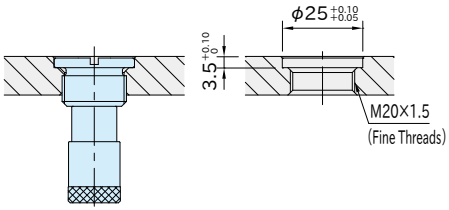


6mm

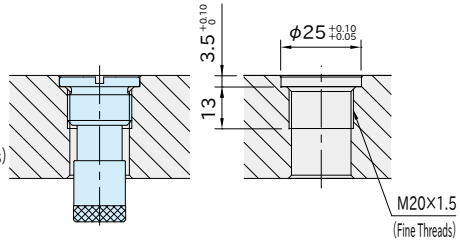


10mm

For installation in a subplate of thickness ranging from 10mm to 32mm, use a screw-in method.



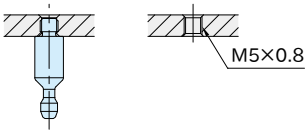
Installation in a subplate



Installation in a block

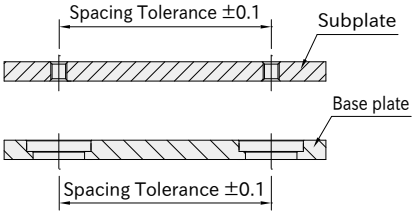
How To Install (Ball-Lock Clamping Pins)

Plate thickness should be 6mm or more.



Accuracy

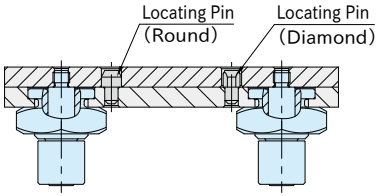
■Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ±0.1.

■Repeatability

Repeatability ±0.25



For higher accurate locating, use locating pins.