

QCBA / QCBAS BALL-LOCK CLAMPING RECEPTACLES



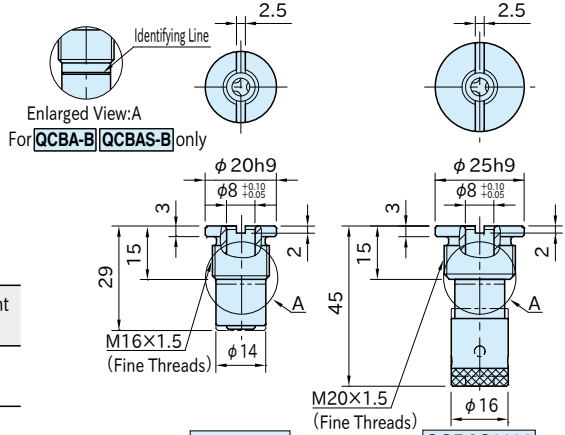
Heat resistance: 180°C



QCBA0816
(Standard)

QCBAS0820
(Safety Lock)

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



QCBA0816 (Standard)

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

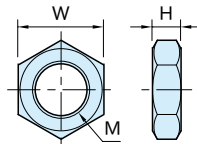
QCBAS0820 (Safety Lock)

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

QCBA0816
(Standard)

QCBAS0820
(Safety Lock)

Order Separately Nut (Stainless Steel)



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

Order Separately Installation Wrench



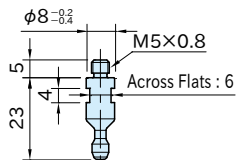
Part Number
PW16

QCBA-M

BALL-LOCK CLAMPING PINS



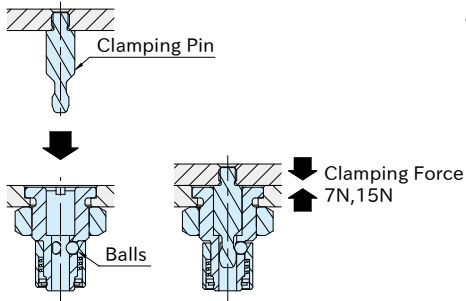
Heat resistance: 180°C



Body
S45C steel Quenched and tempered Electroless nickel plated

Part Number	Weight (g)
QCBA0816-M5	7

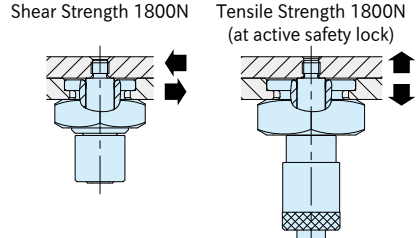
Feature



The 3 balls pull in the clamping pin.

Technical Information

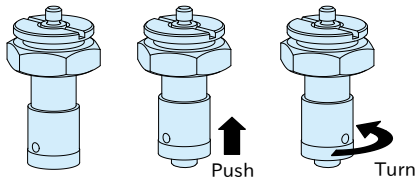
- Heat resistance 180°C
- Mechanical Strength



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

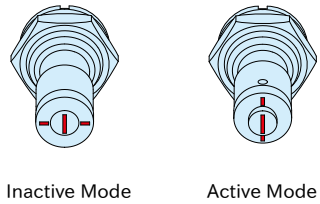
When the fastener receives tensile load that is bigger than its clamping force, there is a gap between the plates.

How To Operate Safety Lock



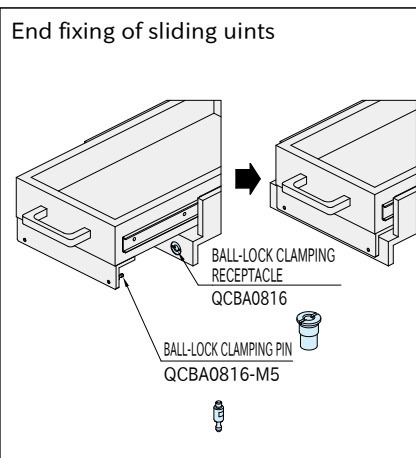
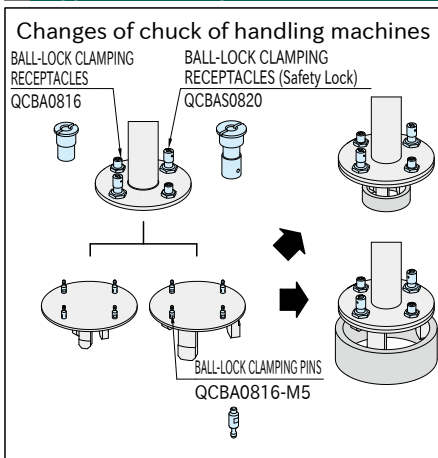
Turn in the arrowhead direction pushing the locking knob.
Note: To release the safety lock, follow the steps back.

How To Check Safety Lock



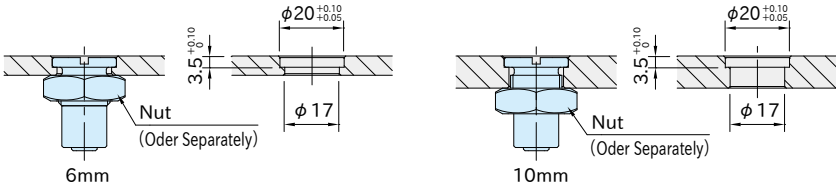
When the mark lines on the end of the locking knob are aligned, the safety lock is active.

Application Example

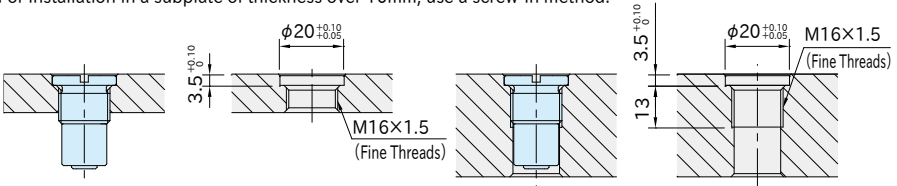


How To Install (Standard)

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



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

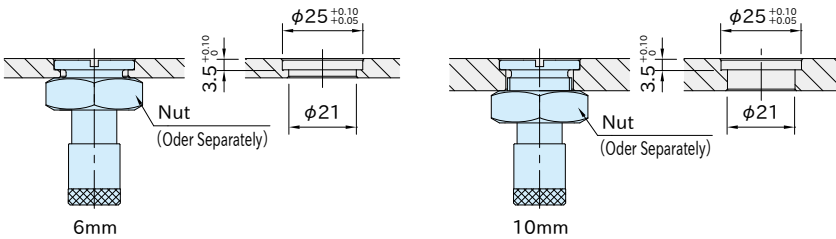


Installation in a subplate

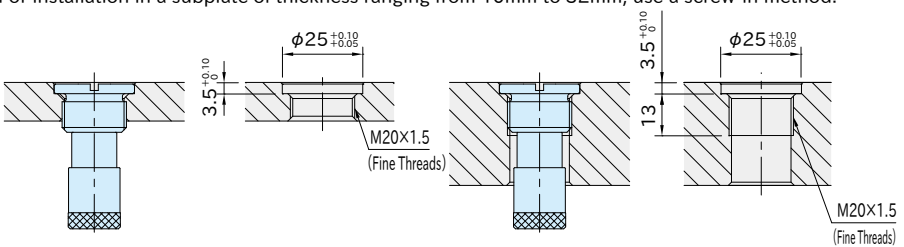
Installation in a block

How To Install (Safety Lock)

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



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

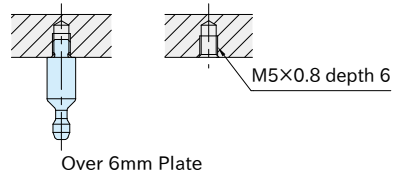
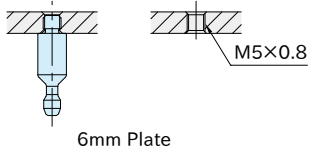


Installation in a subplate

Installation in a block

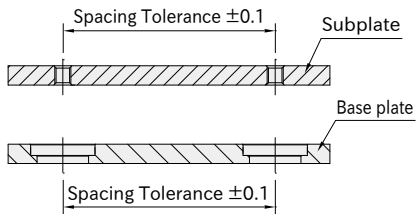
How To Install (Ball-Lock Clamping Pins)

Plate thickness should be 6mm or more.



Accuracy

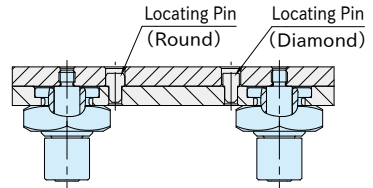
■ Machining Accuracy



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.