

QCBU / QCBUS BUTTON-LOCKING PINS



Stainless Steel

Heat resistance: 180°C



★Key Point

Secure clamping with wedge



QCBU
(Standard)



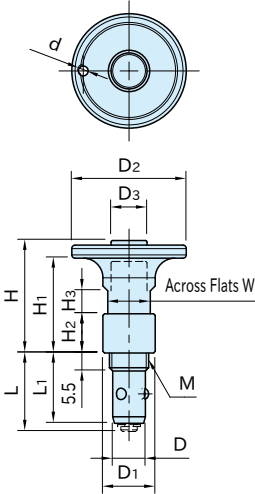
QCBU-SUS
(Stainless Steel)



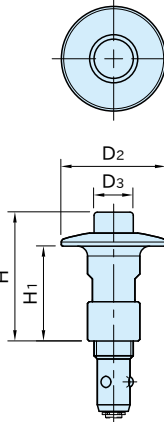
QCBUS
(Cylindrical)



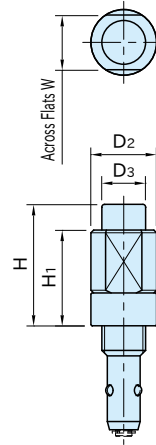
QCBUS-SUS
(Cylindrical, Stainless Steel)



QCBU



QCBU-SUS



QCBUS

QCBUS-SUS

Part Number	Body	Button	Ball	Coiled Spring	Snap Ring	O-Ring
QCBU	0608-10 SUM22 steel	S45C steel	Electroless nickel plated	SUS440C stainless steel	SUS304WPB stainless steel	FKM fluororubber
QCBUS	1012-16 Electroless nickel plated					—
QCBU-SUS	0608-10 SUS303	SUS420J2 stainless steel	Quenched and tempered	Quenched and tempered	Stainless steel	FKM fluororubber
QCBUS-SUS	1012-16 stainless steel					—

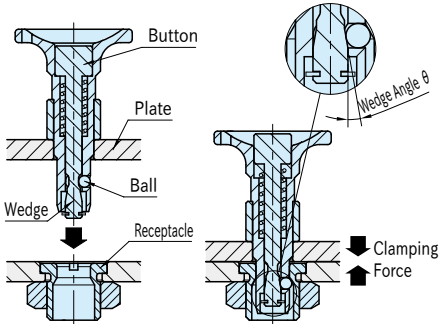
Part Number	Plate Thickness	D (-0.05 -0.10)	M	D ₁	L	L ₁	H ₂	W	Clamping Force(N)	Holding Force (N) *	Receptacles	
QCBU	0608-10	6~10	6	M 8×1.25	12	21	19	6	10	30	90	QCBU0608-M12
QCBUS												QCBU0608-M12SUS
QCBU-SUS	1012-16	6~16	10	M12×1.5 (Fine Thread)	16	23.5	21.5	12	13	50	150	QCBU1012-M16
QCBUS-SUS												QCBU1012-M16SUS

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

QCBU (Standard)								QCBU-SUS (Stainless Steel)						
Part Number	D ₂	D ₃	H	H ₁	H ₃	d	Weight (g)	Part Number	D ₂	D ₃	H	H ₁	H ₃	Weight (g)
QCBU0608-10	25	8	22	18	5.5	—	30	QCBU0608-10-SUS	23	8	26	18	5.5	30
QCBU1012-16	35	11	34.5	29	7	3	75	QCBU1012-16-SUS	32	12	39.5	29	7	75

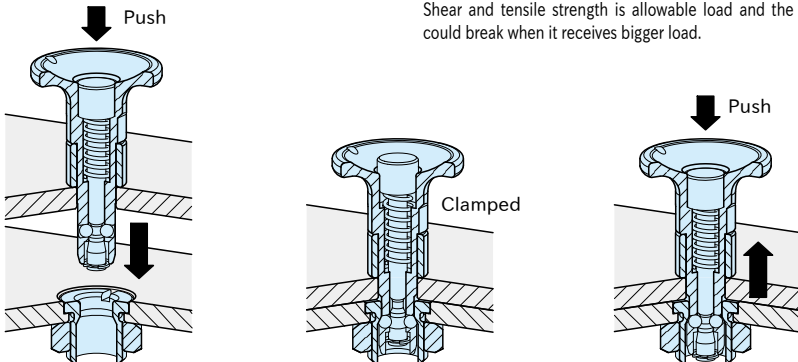
QCBUS (Cylindrical)							QCBUS-SUS (Cylindrical, Stainless Steel)						
Part Number	D ₂	D ₃	H	H ₁	H ₃	Weight (g)	Part Number	D ₂	D ₃	H	H ₁	H ₃	Weight (g)
QCBUS0608-10	12	8	22	17.5	11.5	30	QCBUS0608-10SUS	12	8	22	17.5	11.5	30
QCBUS1012-16	16	11	34.5	28	16	50	QCBUS1012-16SUS	16	11	34.5	28	16	50

Feature



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

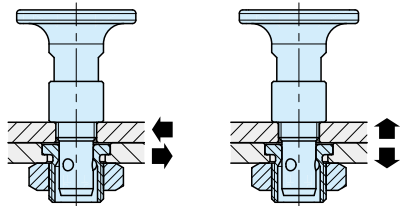
How To Use



1. Insert the pin pressing the button.
2. When the button is released, plates are clamped.
3. For removal, pull out the pin pressing the button.



Mechanical Strength

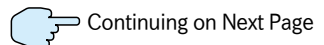


Part Number	Heatresistant Temperature (°C)	Shear Strength (N)	Tensile Strength (N)
QCBU QCBUS QCBU-SUS QCBUS-SUS	180	3000	500
1012-16		9000	1500

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

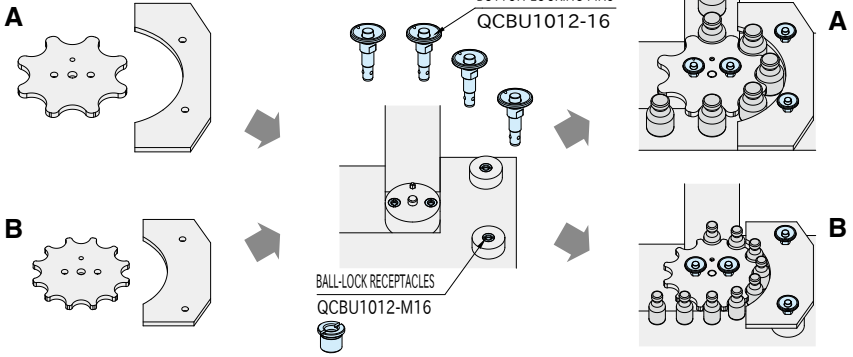
Note

For cylindrical types, prepare handles or knobs separately to facilitate the operation. Use of cylindrical type requires handles or knobs separately to operate the product properly.

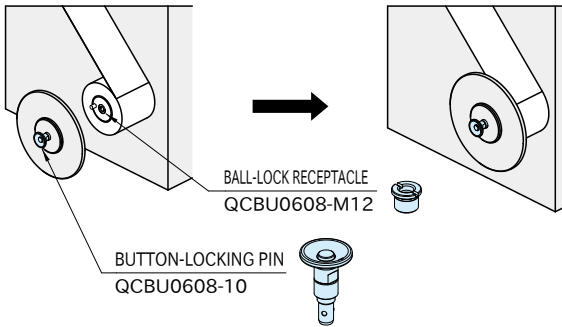


Application Example

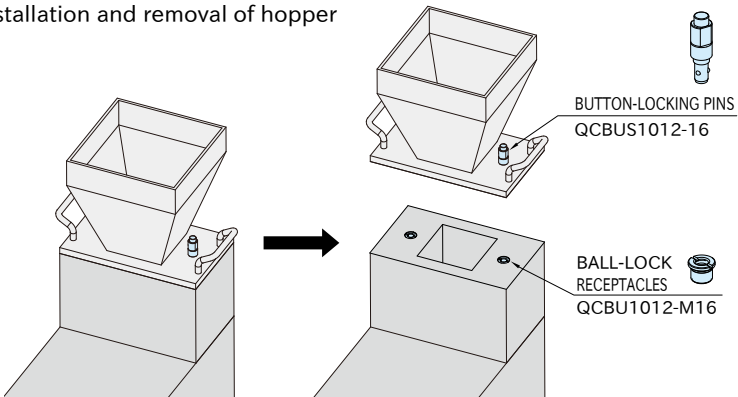
Changes of star wheels and guide plates



Installation and removal of stopper plate for rolls

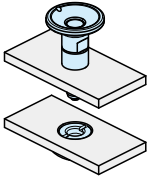


Installation and removal of hopper



How To Install

Fixed Installation



Part Number		Plate Thickness	Figure	M	d ₂
QCBU	0608-10	6	A	M 8×1.25	—
		Over 6, 10 or less	B		13
QCBUS-SUS	1012-16	6	A	M12×1.5 (Fine Thread)	—
		Over 6, 16 or less	B		17

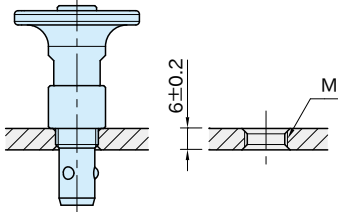


Figure A

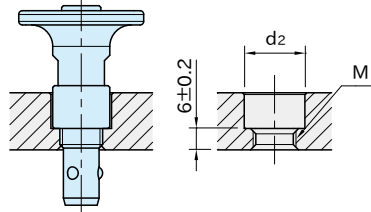
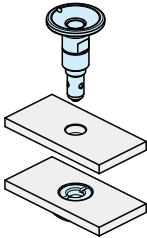


Figure B

Unfixed Installation (Except QCBUS QCBUS-SUS type)



Part Number		Plate Thickness	Figure	d ₁ (^{+0.1} / ₀)	d ₂
QCBU	0608-10	6	C	8	—
		Over 6, 10 or less	D		13
QCBUS-SUS	1012-16	6	C	12	—
		Over 6, 16 or less	D		17

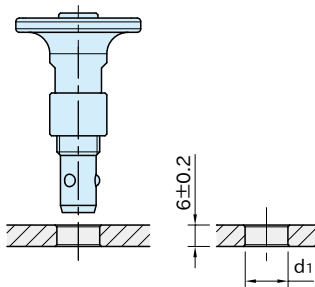


Figure C

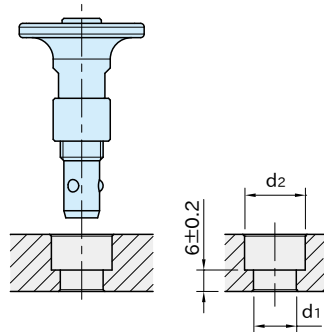
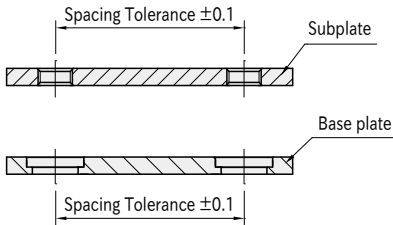


Figure D

Accuracy

■ Machining Accuracy



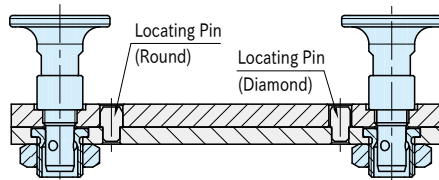
Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

Reference

"How To Install" of [QCBU-M](#) Ball-Lock Receptacle

■ Repeatability

Repeatability is ± 0.25 for both fixed and unfixed installations.



For higher accurate locating, use locating pins.