QCBU / QCBUS BUTTON-LOCKING PINS

RoHS | Stainless Steel | Heat resistance: 180°C

IMAO

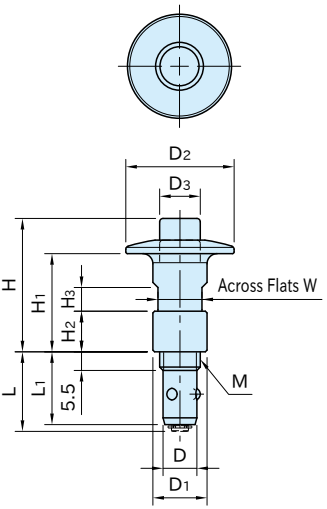
Wedge



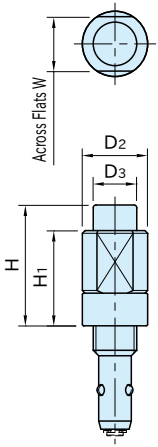
QCBU-SUS



QCBUS-SUS
(Cylindrical)



QCBU-SUS



QCBUS-SUS
(Cylindrical)

★Key Point
Secure clamping with wedge

Part Number		Body	Button	Ball	Coiled Spring	Snap Ring	O-Ring
QCBU-SUS	0608-10	SUS303 stainless steel	SUS420J2stainlesssteel Electrolessnickel plated Quenched and tempered	SUS440C stainless steel Quenched and tempered	SUS304WPB stainless steel	Stainless steel	FKM fluororubber
QCBUS-SUS	1012-16						–

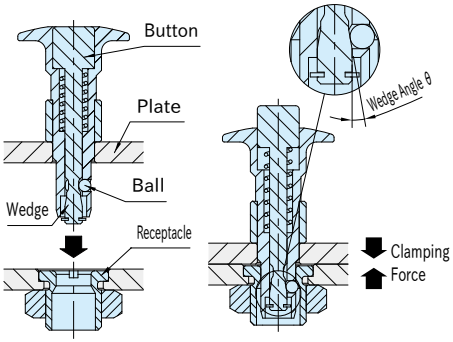
Part Number		Plate Thickness	D $(^{-0.05}_{-0.10})$	M	D_1	L	L_1	H_2	W	Clamping Force(N)	Holding Force (N) *)
QCBU-SUS	0608-10	6~10	6	M 8X1.25	12	21	19	6	10	30	90
QCBUS-SUS	1012-16	6~16	10	M12X1.5 (Fine Thread)	16	23.5	21.5	12	13	50	150

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

Part Number		Receptacles	Floating Receptacles
QCBU-SUS	0608-10	QCBU0608-M12SUS	QCBU0608-FL-SUS
QCBUS-SUS	1012-16	QCBU1012-M16SUS	QCBU1012-FL-SUS

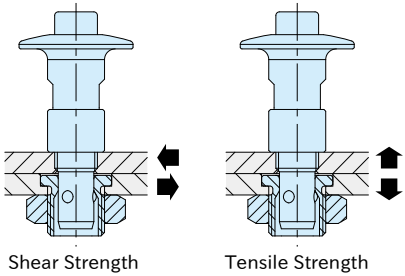
QCBU-SUS							QCBUS-SUS (Cylindrical)						
Part Number	D_2	D_3	H	H_1	H_3	Weight (g)	Part Number	D_2	D_3	H	H_1	H_3	Weight (g)
QCBU0608-10-SUS	23	8	26	18	5.5	30	QCBUS0608-10SUS	12	8	22	17.5	11.5	30
QCBU1012-16-SUS	32	12	39.5	29	7	75	QCBUS1012-16SUS	16	11	34.5	28	16	50

Feature



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

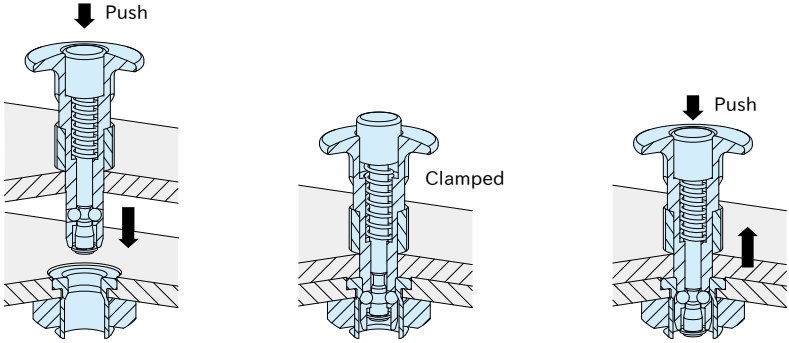
Mechanical Strength



Part Number		Heatresistant Temperature (℃)	Shear Strength(N)	Tensile Strength(N)
QCBU-SUS	0608-10	180	3000	500
QCBUS-SUS	1012-16		9000	1500

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

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.

QCBU-M	BALL-LOCK RECEPTACLES



QCBU-FL	FLOATING RECEPTACLES



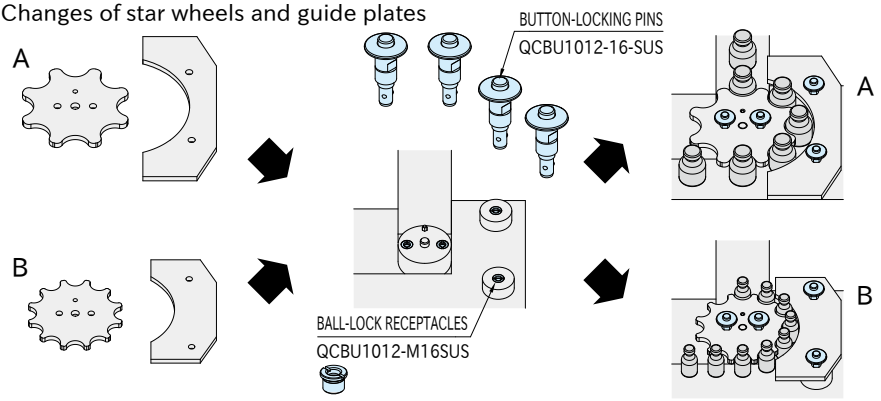
Note

For cylindrical QCBUS-SUS Button-Locking Pins, prepare handles or knobs separately to facilitate the operation.

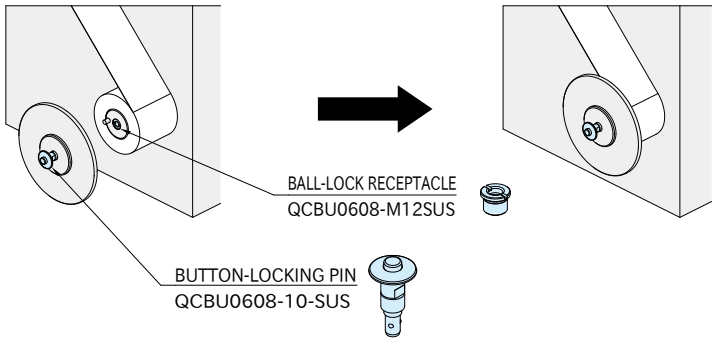
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Application Example

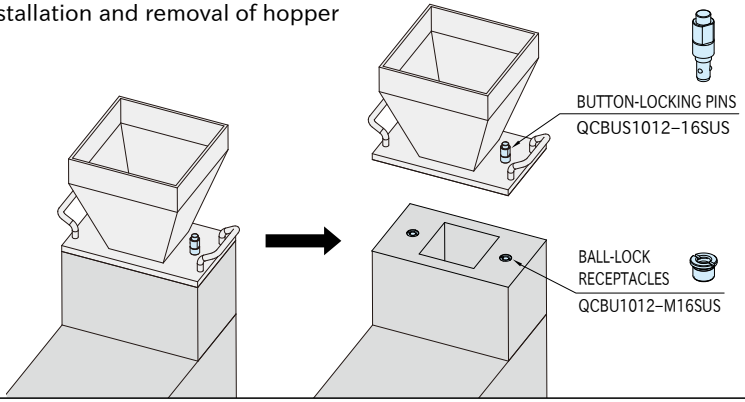
Changes of star wheels and guide plates



Installation and removal of stopper plate for rolls

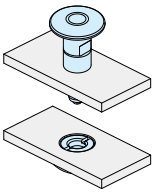


Installation and removal of hopper



How To Install

Fixed Installation



Part Number		Plate Thickness	Figure	M	d_2
QCBU-SUS QCBUS-SUS	0608-10	6	A	M 8×1.25	—
		Over 6, 10 or less	B		13
	1012-16	6	A	M12×1.5 (Fine Thread)	—
		Over 6, 16 or less	B		17

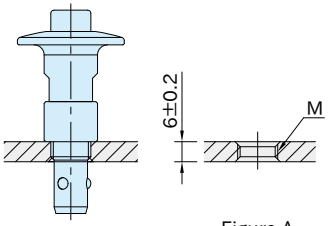


Figure A

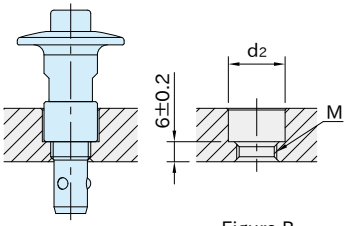
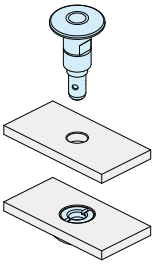


Figure B

Unfixed Installation for QCBU-SUS type



Part Number	Plate Thickness	Figure	d_1 $(^{+0.1}_{0})$	d_2
QCBU0608-10-SUS	6	C	8	—
	Over 6, 10 or less	D		13
QCBU1012-16-SUS	6	C	12	—
	Over 6, 16 or less	D		17

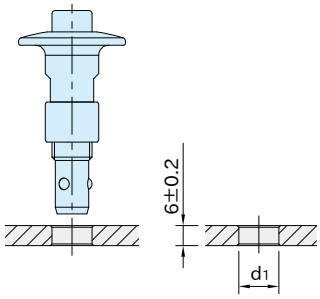


Figure C

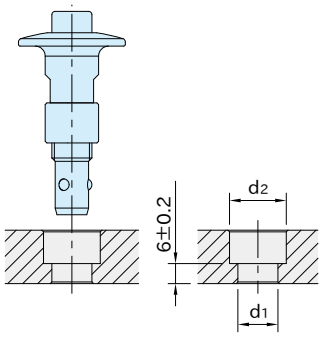
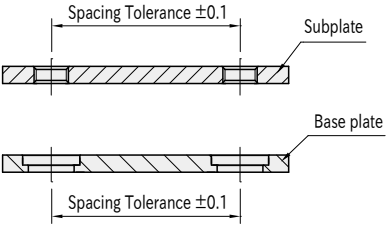


Figure D

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Accuracy

■Machining Accuracy

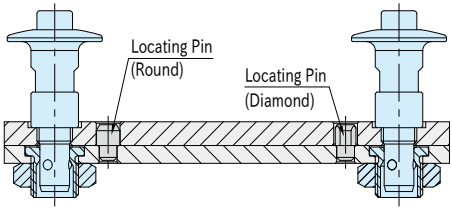


Spacing tolerance on both the subplate and the base plate should be ±0.1.

Note: To expand the tolerance range of mounting hole spacing, use QCBU-FL floating receptacles. See QCBU-FL Floating Receptacles product pages for details.

■Repeatability

Repeatability is ±0.25 for both fixed and unfixed installations.



For higher accurate locating, use locating pins.

Reference

"How To Install" of QCBU-M Ball-Lock Receptacles and QCBU-FL Floating Receptacles