

QCPCS

HEAVY DUTY PIN HOLDING CLAMPS



Stainless Steel



QCPCS

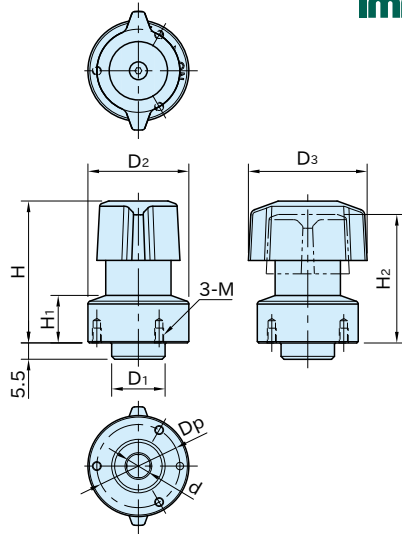
(Plastic Knob)



QCPCS-SUS

(Stainless Steel)

Stainless Steel



★ Key Point

Minimises space requirement with clamping pins.

Type	Body	Wedge	Knob	Ball	Spring
QCPCS	SUS303 stainless steel	SUS630 stainless steel	Polyamide (glass-fiber reinforced) Black	SUS440C stainless steel Quenched and tempered	SUS304WPB stainless steel
QCPCS-SUS		Precipitation hardened	SCS13 stainless steel (Equivalent to SUS304)		

Size	Plate Thickness	d (+0.4 / -0.2)	D ₁ (h9)	D ₂	D ₃	H	H ₁	H ₂	M	D _p	Clamping Force (N)	Holding Force (N)**	Clamping Pins	
QCPCS	0625-20	3~20 *)	6	14	25	30	40	14.7	36	M2×0.4 Depth 4	21	150	450	QCPCS 0625-M4-SUS
														QCPCSF0625-M5-SUS
														QCPCSF0625-M6-SUS
QCPCS-SUS	0834-20	3~20 *)	8	18	34	40	48	16	43	M3×0.5 Depth 5	28	250	750	QCPCS 0834-M5-SUS
														QCPCSF0834-M6-SUS

*) Spacer QCASP is required for thinner plate than 6mm.

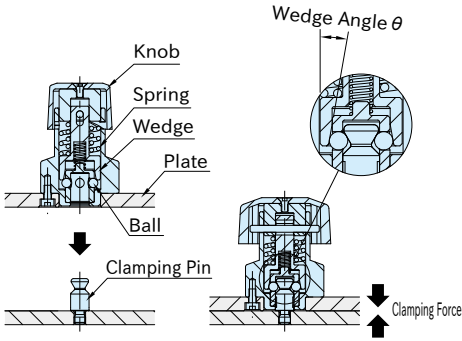
**) Exceeding the holding force creates a gap of greater than 0.1mm between plates.

QCPCS (Plastic Knob)		QCPCS-SUS (Stainless Steel)	
Part Number	Weight (g)	Part Number	Weight (g)
QCPCS0625-20	85	QCPCS0625-20-SUS	100
QCPCS0834-20	165	QCPCS0834-20-SUS	195

Supplied With

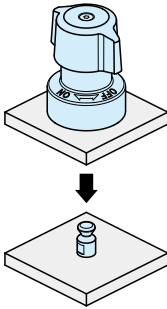
- **QCPCS** **QCPCS-SUS** 0625-20:
3 of socket-head cap screws(stainless steel), M2×0.4-5L
- **QCPCS** **QCPCS-SUS** 0834-20:
3 of socket-head cap screws(stainless steel), M3×0.5-6L

Feature

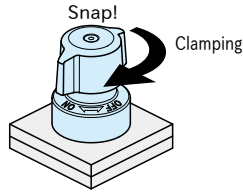


Four balls hold the Clamping Pin to pull the plate for clamping.

How To Use



1. Ensure that the knob is positioned at the "OFF" mark and put Pin Holding Clamp over the Clamping Pin.

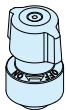


2. Turn the knob to the "ON" mark for clamping.
Note: For unclamping, follow back these steps.

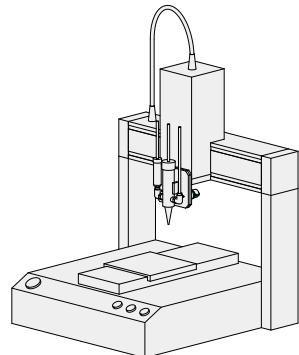
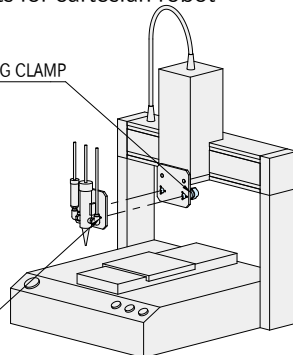
Application Example

Changes of attachments for cartesian robot

HEAVY DUTY PIN HOLDING CLAMP
QCPCS0625-20

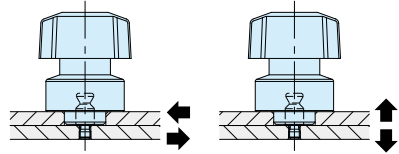


CLAMPING PIN
QCPCS0625-M4-SUS



Mechanical Strength

Heatresistant Temperature QCPCS 130°C
QCPCS-SUS 180°C



Shear Strength

Tensile Strength

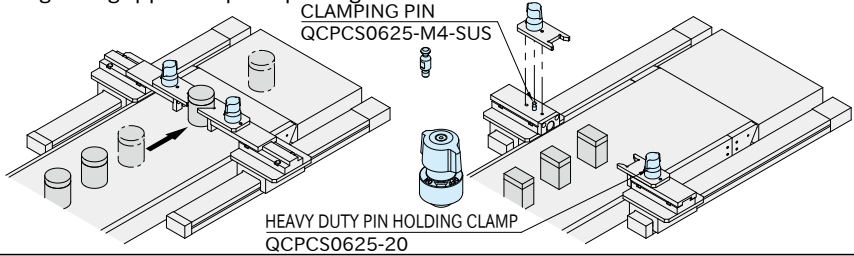
Size	Clamping Pin Size	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCPCS	0625-20	QCPCS 0625-M4-SUS 1100	1800
	QCPCS-SUS	QCPCS F0625-M5-SUS 2500	
0834-20		QCPCS 0834-M5-SUS 1800	2400
	QCPCS F0834-M6-SUS 2500		

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

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Application Example

Changes of gripper for parts picking machine



How To Install

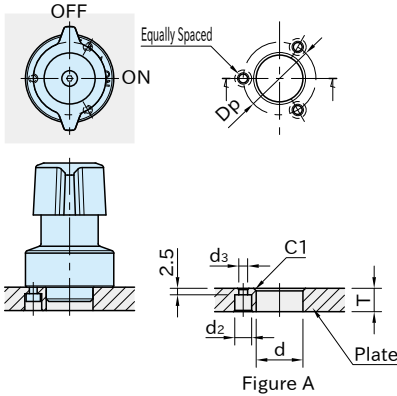


Figure A

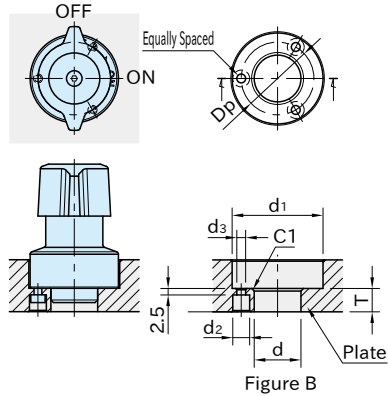


Figure B

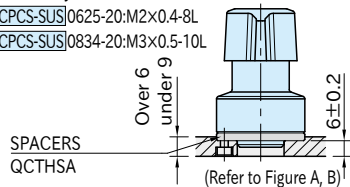
Size	Clamping Pin Size	Plate Thickness	Figure	d ($\begin{smallmatrix} +0.10 \\ +0.05 \end{smallmatrix}$)	T (± 0.2)	d ₁	d ₂	d ₃	Dp
QCPCS QCPCS-SUS	0625-20	3 or more, under 6	Spacer QCASP is required.						
		6	A	14	6	-	4.4	2.4	21
		Over 6, 20 or less	B		9	26			
		9 ***)	A	9	-				
QCPCS-SUS	0834-20	3 or more, under 6	Spacer QCASP is required.						
		6	A	18	6	-	6.5	3.4	28
		Over 6, 20 or less	B		9	35			
		9 ***)	A	9	-				
Over 9, 20 or less	B	35	-						

QCPCS-M / QCPCSF-M CLAMPING PINS	
QCASP SPACERS	QCTHSA SPACERS

***) For plates with thickness between 6 - 9 mm, [QCPCSF-M](#) Clamping Pins are applicable with [QCTHSA](#) Spacers.

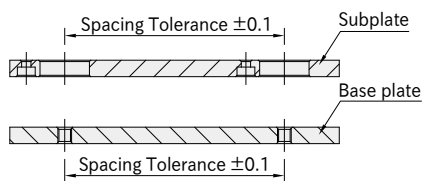
Hexagon socket head cap screws for fixing are to be provided by customer.

- [QCPCS](#) [QCPCS-SUS](#)0625-20:M2x0.4-8L
- [QCPCS](#) [QCPCS-SUS](#)0834-20:M3x0.5-10L



Accuracy

■ Machining Accuracy



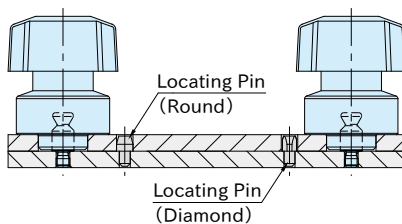
Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

Reference

- "How To Install" of [\[QCPCS-M\]](#), [\[QCPCSF-M\]](#) Clamping Pin.
- Spacer [\[QCASP\]](#) is required for 3mm or more, under 6mm plate thickness.

■ Repeatability

Repeatability ± 0.25



For higher accurate locating, use locating pins.