

QCSQ

SLIDING LOCKS FOR SQUARE BAR



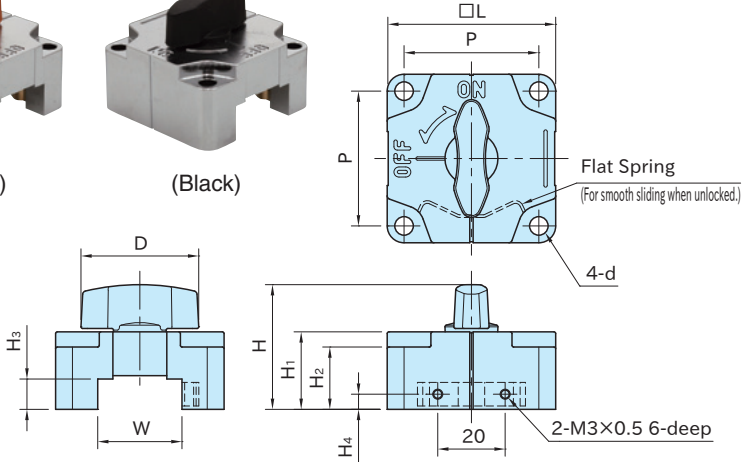
| Body | Knob | Shafts / Wedge | Flat Spring |
|--------------------------------|---------------------------------------|-----------------|--------------------------|
| Die-cast zinc Chrome plated | Polyamide (glass-fiber reinforced) | Stainless steel | C519P phosphor bronze |



(Orange)



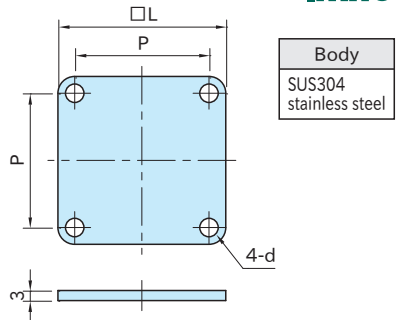
(Black)



| Part Number | | L | H | W (^{+0.05} ₀) | H ₃ (^{+0.2} ₀) | D | H ₁ | H ₂ | H ₄ | P | d | Weight (g) |
|-------------|-------------|----|----|--|--|----|----------------|----------------|----------------|----|-----|---------------|
| Orange | Black | | | | | | | | | | | |
| QCSQ1212-OG | QCSQ1212-BK | 40 | 36 | 12 | 12 | 28 | 22 | 18.5 | 6 | 32 | 4.5 | 130 |
| QCSQ1616-OG | QCSQ1616-BK | | 40 | 16 | 16 | | 26 | 22.5 | 8 | | | 220 |
| QCSQ2509-OG | QCSQ2509-BK | 50 | 37 | 25 | 9 | 35 | 23 | 18.5 | 4.5 | 40 | 5.5 | 240 |
| QCSQ2512-OG | QCSQ2512-BK | | 40 | | 12 | | 26 | 21.5 | 6 | | | 220 |
| QCSQ3212-OG | QCSQ3212-BK | | 44 | 32 | 16 | | 30 | 25.5 | 8 | | | 240 |
| QCSQ3216-OG | QCSQ3216-BK | | | | | | | | | | | 240 |

QCSQSP

RISER PLATES FOR SLIDING LOCK

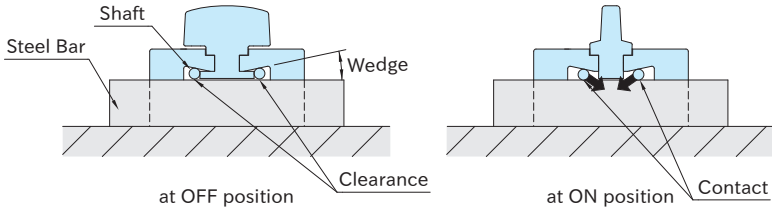


| Part Number | L | d | P | Weight (g) |
|-------------|----|-----|----|---------------|
| QCSQSP4003 | 40 | 4.5 | 32 | 35 |
| QCSQSP5003 | 50 | 5.5 | 40 | 55 |

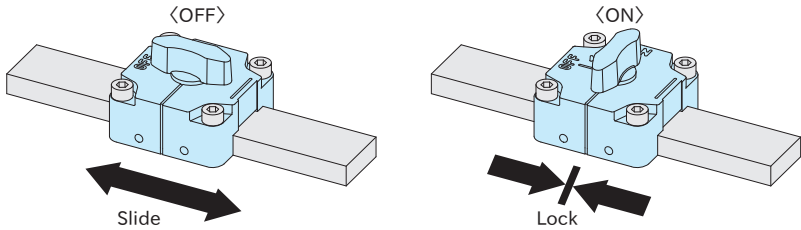
Features

You can slide the steel bar when the knob is at "OFF" position since there is clearance between the steel bar and the shafts.

The steel bar is locked when the knob is at "ON" position since the shafts are pushed by the wedge.



How To Use



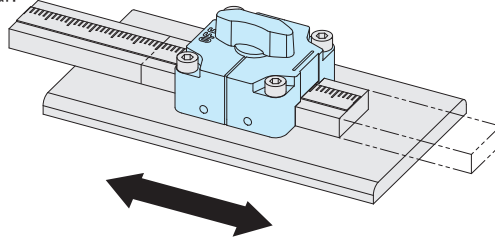
1. The steel bar can slide to right and left at "OFF" position.

2. The steel bar is locked at "ON" position.

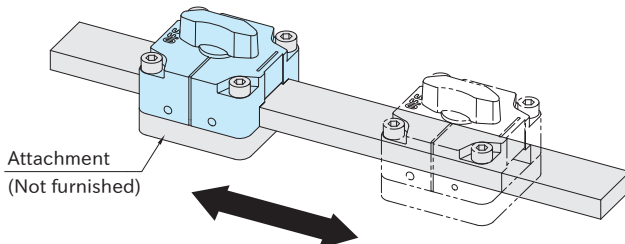
Note: The knob clicks at "ON" and "OFF" positions, and this enables the operator to lock/unlock securely.

Note: Sliding Locks must be mounted when the knob is at "OFF" position.
Mounting of Sliding Locks at "ON" position may cause damage.

① Slide the steel bar.

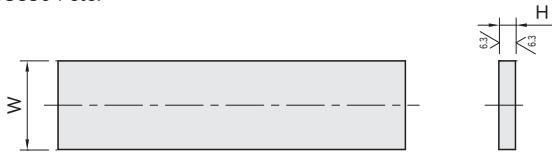


② Slide the Sliding Locks For Square Bar.



■ Steel Bar Materials

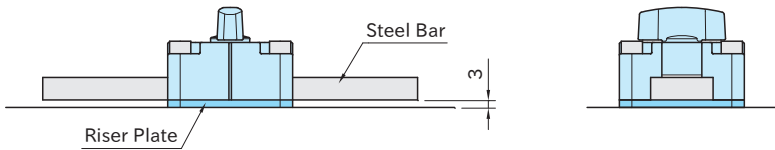
· Usable Materials: Flat bar (JIS h14 grade) made of SS400, S45C or SUS304 etc.



| Type | W | H |
|----------|--------------------------------------|--------------------------------------|
| QCSQ1212 | 12 ⁽⁰⁾ _(-0.43) | 12 ⁽⁰⁾ _(-0.43) |
| QCSQ1616 | 16 ⁽⁰⁾ _(-0.43) | 16 ⁽⁰⁾ _(-0.43) |
| QCSQ2509 | 25 ⁽⁰⁾ _(-0.52) | 9 ⁽⁰⁾ _(-0.36) |
| QCSQ2512 | | 12 ⁽⁰⁾ _(-0.43) |
| QCSQ3212 | 32 ⁽⁰⁾ _(-0.62) | |
| QCSQ3216 | | 16 ⁽⁰⁾ _(-0.43) |

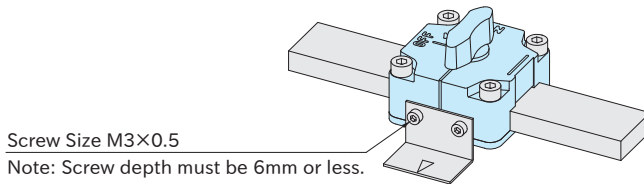
■ How To Use Riser Plate

Riser Plates (to be ordered separately) can lift the steel bar to create a clearance between the steel bar and the base.



■ How To Use Tapped Holes On Side Surface

Can be used with attachments such as pointer plates and brackets.



■ How To Use Scale Plate

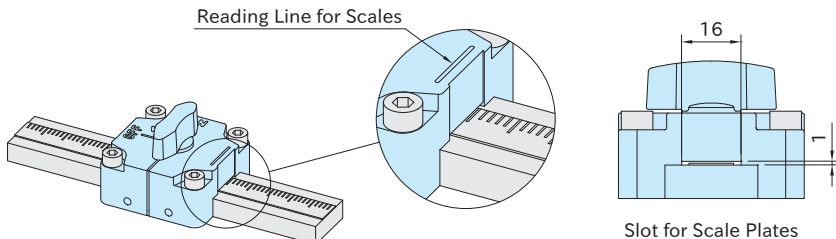
· Scale plate can be put on the steel bar.

Note: Fit scale plate inside the slot in the figure below.

Putting scale plate outside the slot cause interference between scale plate and Sliding Lock, and this may cause failure.

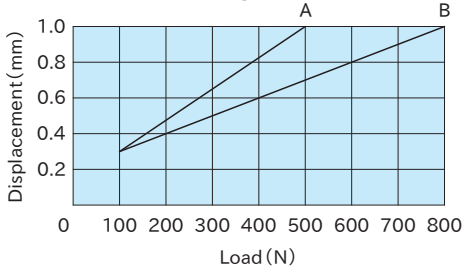
Scale plate is not usable on **QCSQ** 1212 and **QCSQ** 1616.

· **ES1N** Scale Plate is separately available.



Performance Curve

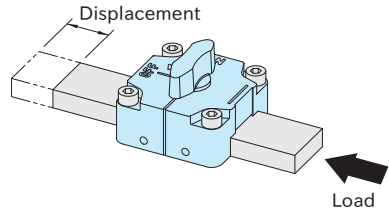
■ The displacement of steel bar by axial load
(Static load from single direction)



A : **QCSQ** 1212,1616

B : **QCSQ** 2509,2512

QCSQ 3212,3216



Note: The above data is for a flat bar made of SUS304 stainless steel, SS400 steel and S45C steel.
Using an aluminum flat bar, the surface will be scratched or dent by applied load.

Technical Information

- Heat resistance : Up to 90°C
- Rated load : **QCSQ** 1212,1616 : Up to 500N
- Rated load : **QCSQ** 2509,2512,3212,3216 : Up to 800N

Notes

- The displacement will increase with excess shock or vibration. Please contact us for use in such environment.
- The displacement can increase with adhesion or immersing of oil or foreign substances.
- If the bar slips or chatters by applied load, prepare guides or supports as needed.

