



Pneumatic components

Safety Precautions

Be sure to read this section before use.

Refer to Intro Page 73 for cylinders in general and Intro Page 80 for cylinder switches.

Product-specific cautions: Rotary clamp cylinder/single guide RCS2 Series

Design/selection

1. Common

⚠ WARNING

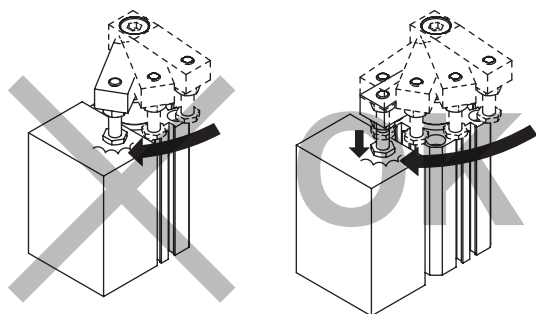
■ Precautions for operation

The piston rod of this cylinder swivels 90° during operation. Make sure that the clamp lever mounted to the piston rod end does not interfere with the exterior while rotating. If the rotation of the clamp lever could cause bodily injury, be sure to provide safety measures by installing a protective cover, etc., to the clamp lever's surroundings.

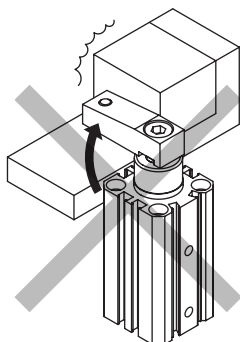
⚠ CAUTION

■ Using this product with rotation applied to the piston rod may lead to damage, malfunctions, or decreased non-rotating accuracy. Be sure to observe the following precautions.

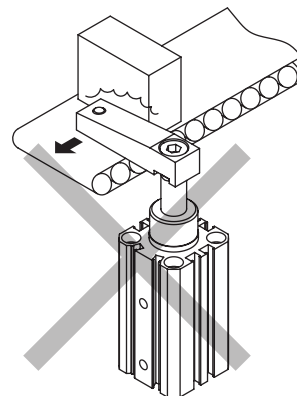
1. Do not clamp the product mid-rotary stroke. Adjust the clamping position to be approx. 3 mm or more before the stroke end position.



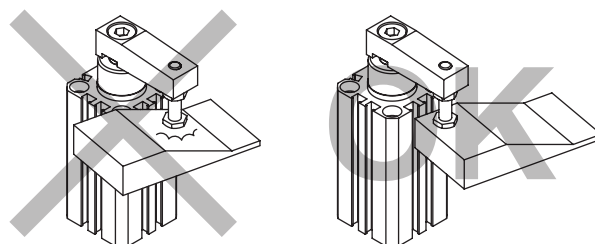
2. Do not clamp the product in the rotational direction.



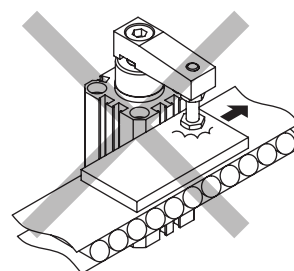
3. Do not use as a stopper.



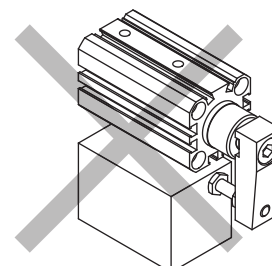
4. Do not clamp the inclined portion.



5. Do not move the workpiece with exterior power while clamping.

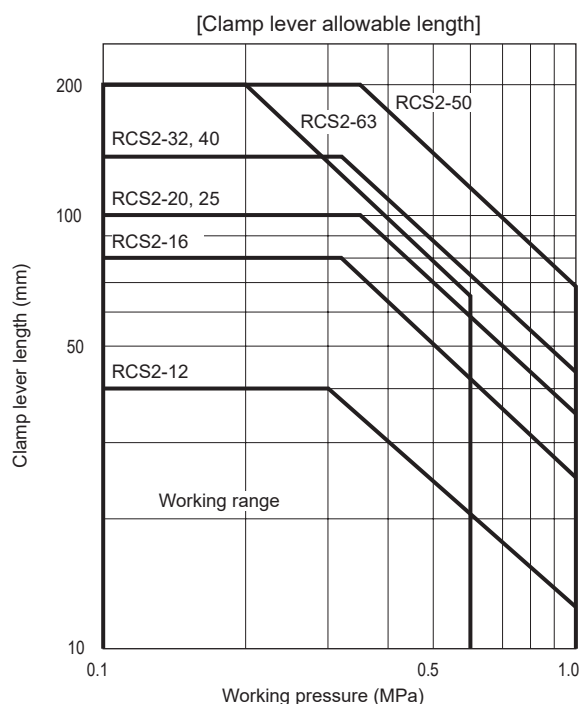
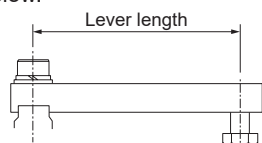


6. Do not install horizontally.



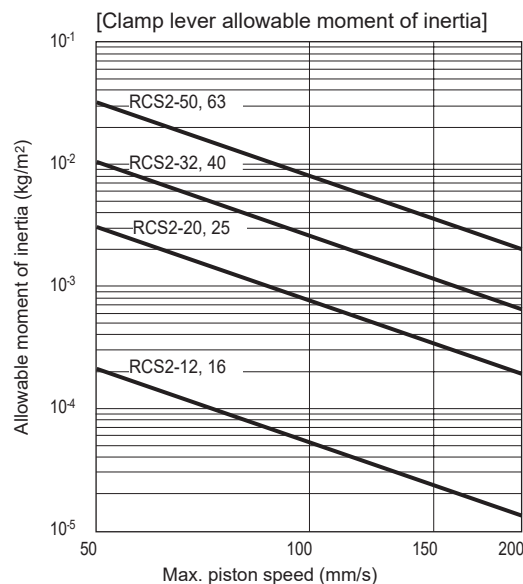
■ Clamp lever allowable length and working pressure

The upper limit of the clamp lever's allowable length differs depending on the working pressure. Set it to within the range shown below.



■ Clamp lever allowable moment of inertia and piston speed

The upper limit of the clamp lever's allowable moment of inertia differs depending on the piston speed. Set it to within the range shown below.



2. Anti-spatter adherence RCS2-G4

■ The durability of this cylinder is improved in comparison to standard cylinders when used in an atmosphere exposed to spatter. However, durability may be shorter than the standard cylinder when used other than in an atmosphere exposed to spatter. Do not use this cylinder in atmospheres other than those with spatter.

■ Anti-spatter adherence agent is volatile. If the anti-spatter adherence agent starts drying up on the rod surface, apply the agent to the rod surface again.

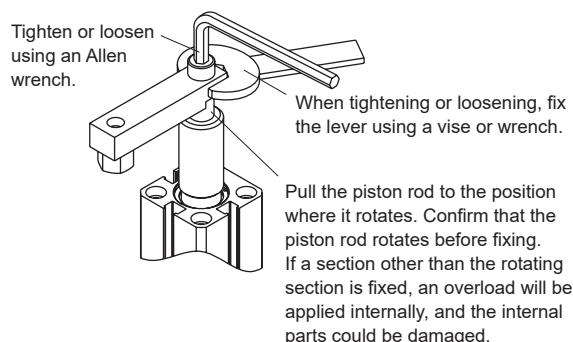
Mounting, installation and adjustment

⚠ WARNING

- The piston rod of this cylinder strokes while swiveling (90°) during operation. As the lever mounted to the piston rod end rotates, do not insert your hands or enter the drive zone during operation.

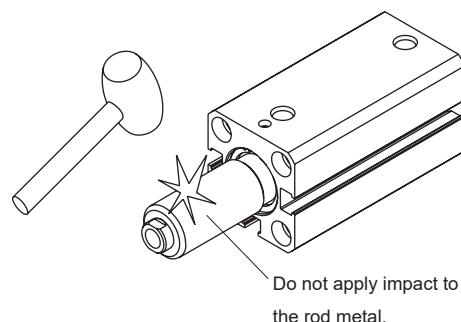
⚠ CAUTION

- Mounting and removing the lever
Use the following procedures to attach and remove the lever. (Applying excessive rotational force to the piston rod may cause damage to the internal parts.)



■ Impact

Do not apply impact to the rod metal. There is a risk of damage.



LCM
LCR
LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
RCC2
PCC
SHC
MCP
GLC
MFC
BBS
RRC
GRC
RV3*
NHS
HRL
LN
Hand
Chuk
MechHnd/Chuk
ShkAbs
FJ
FK
SpdContr
Ending